Facility: Gordon Paving Co., Inc.

4/18/2008 8:00 Permit/Facility ID: 0 xxx-xxxxx

CURRENT PTC ESTIMATES

EMISSION INVENTORY

TONS PER YEAR

'age Max Emissions of Any Pollutant from Drum Mix HMA Plant: Fabric Filter, Tank Heater, Generator, Load-out/Silo/Asphalt Storage

A. Drum Mix Plant: 225 Tons/hour 1,200 Hours/year 270,000 Tons/year HMA throughput 24 hrs/day

Maximum emission for each pollutant from any fuel-burning option selected. Fuels Selected = Used Oil

B. Tank Heater: 2.0000 MMBtu Rated 4,608 Hours/year 24 hrs/day

Maximum emission for each pollutant from any fuel-burning option selected. Fuels Selected = #2 Fuel Oil

C. Generator: 0 gal/hour 0 Hours/year No Generator #2 Fuel Oil Generator>600hp 0 hrs/day

Pollutant	A Drum Mix Max Emission Rate for Pollutant (T/yr)	B Asphalt Tank Heater Max Emission Rate for Pollutant (T/yr)	C Generator Max Emission Rate for Pollutant (T/yr)	D Load-out, Silo Filling, & Tank Storage Emission Rate for Pollutant (T/yr)	E TOTAL of Max Emission Rates from A, B, & C (T/yr) Exclude Fugitives from D
non-PAH HAPs[g]					
Bromomethane[e]				8.14E-05	0.00E+00
2-Butanone (see Methyl Ethyl Ketone)					0.00E+00
Carbon disulfide[e]				1.63E-04	0.00E+00
Chloroethane (Ethyl chloride[e])				2.36E-05	0.00E+00
Chloromethane (Methyl chloride[e])				2.13E-04	0.00E+00
Cumene				6.18E-04	0.00E+00
n-Hexane				0.00E+00	0.00E+00
Methylene chloride (Dichloromethane[e])				1.52E-06	0.00E+00
MTBE				0.00E+00	0.00E+00
Styrene[e]				7.13E-05	0.00E+00
Tetrachloroethene (Tetrachloroethylene[e])				4.32E-05	0.00E+00
1,1,1-Trichloroethane (Methyl chloroform[e])				0.00E+00	0.00E+00
Trichloroethene (Trichloroethylene[e])				0.00E+00	0.00E+00
Trichlorofluoromethane				7.30E-06	0.00E+00
m-/p-Xylene[e]				3.42E-03	0.00E+00
o-Xylene[e]				4.81E-03	0.00E+00
Phenol[e,f]				5.43E-04	0.00E+00
Non-HAP Organic Compounds					
Methane				1.82E-01	0.00E+00

e) IDAPA Toxic Air Pollutant

Facility: Gordon Paving Co., Inc.

4/18/2008 8:00 **Permit/Facility ID:** 0 xxx-xxxxx

CURRENT PTC ESTIMATES

TAPs EL Screen - ALL SOURCES

586 pollutants are shown in bold/red

Max Emissions of Any Pollutant from Drum Mix HMA Plant with Fabric Filter, Tank Heater, Generator, Load-out/Silo/Asphalt Storage

A. Drum Mix Plant: 225 Tons/hour 1,200 Hours/year 270,000 Tons/year HMA throughput

Maximum emission for each pollutant from any fuel-burning option selected on "Facility Data" worksheet

B. Tank Heater: 2.0000 MMBtu Rated 4,608 Hours/year **D. Include all emissions from Load-out/Silo Filling?** Yes

Maximum emission for each pollutant for heater burning any fuel selected on "Facility Data" worksheet **Short Term Source Factor 586 ELs?** 1

C. Generator: 0 gal/hour 0 Hours/year Small or Large Generator using Diesel Fuel

Pollutant	TOTAL of Max Emission Rates from A, B, C & D (lb/hr)	TAPs Screening Emission Limit (EL) Increment[b] (lb/hr)	TAPs Emissions Exceed EL Increment?	Modeled? Meets AAC or AACC?
	250.00			
HCl[e]	0.05	0.05	No	
Dioxins[e]		Toxic Equivalency Factor[c]	Adjusted Emission Rate (lb/hr)	
2,3,7,8-TCDD	4.73E-11	1.0	4.73E-11	
Total TCDD	2.09E-10	n/a		
1,2,3,7,8-PeCDD	6.98E-11	0.5	3.49E-11	
Total PeCDD	4.95E-09	n/a		
1,2,3,4,7,8-HxCDD	1.05E-10	0.1	1.05E-11	
1,2,3,6,7,8-HxCDD	2.93E-10	0.1	2.93E-11	
1,2,3,7,8,9-HxCDD	2.32E-10	0.1	2.32E-11	
Total HxCDD	2.70E-09	n/a		
1,2,3,4,6,7,8-Hp-CDD	1.30E-09	0.01	1.30E-11	
Total HpCDD	4.57E-09	n/a		
Octa CDD	7.96E-09	n/a		
Total PCDD[h]	2.07E-08	n/a		
Furans[e]				
2,3,7,8-TCDF	2.18E-10	0.1	2.18E-11	
Total TCDF	8.81E-10	n/a		
1,2,3,7,8-PeCDF	9.68E-10	0.05	4.84E-11	
2,3,4,7,8-PeCDF	1.89E-10	0.5	9.45E-11	
Total PeCDF	1.89E-08	n/a		
1,2,3,4,7,8-HxCDF	9.00E-10	0.1	9.00E-11	
1,2,3,6,7,8-HxCDF	2.70E-10	0.1	2.70E-11	
2,3,4,6,7,8-HxCDF	4.28E-10	0.1	4.28E-11	
1,2,3,7,8,9-HxCDF	1.89E-09	0.1	1.89E-10	
Total HxCDF	2.95E-09	n/a		
1,2,3,4,6,7,8-HpCDF	1.46E-09	0.01	1.46E-11	
1,2,3,4,7,8,9-HpCDF	6.08E-10	0.01	6.08E-12	
Total HpCDF	2.39E-09	n/a		
Octa CDF	1.26E-09	n/a		
Total PCDF[h]	9.45E-09	n/a		
Total PCDD/PCDF[h]	3.04E-08	n/a		
TOTAL	Adjusted lb/hr	TAPs EL for 2,3,7,8 TCDD	Exceeds TAPs EL?	Modeled?
Dioxin/Furans[c]	6.92E-10	1.50E-10	Exceeds	
Non-PAH HAPs				
Acetaldehyde[e]	2.93E-01	3.00E-03	Exceeds	
Acrolein[e]	5.85E-03	0.017	No	
Benzene[e]	8.91E-02	8.00E-04	Exceeds	
1,3-Butadiene[e]				
Ethylbenzene[e]	6.20E-02	29	No	
Formaldehyde[e]	7.17E-01	5.10E-04	Exceeds	
Hexane[e]	2.07E-01	12	No	
Isooctane	9.03E-03			
Methyl Ethyl Ketone[e]	6.03E-03	39.3	No	
Pentane[e]	0.00E+00	118	No	
Propionaldehyde[e]	2.93E-02	0.0287	Exceeds	
Quinone[e]	3.60E-02	0.027	Exceeds	
Methyl chloroform[e]	1.08E-02	127	No	
Toluene[e]	6.56E-01	25	No	
Xylene[e]	5.87E-02	29	No	
TOTAL PAH HAPs (lb/hr) =		**2.43E+00**		
TOTAL Federal HAPs (lb/hr)=		**2.48E+00**		
TOTAL Idaho TAPs (lb/hr) =		**2.53E+00**		

Pollutant	TOTAL of Max Emission Rates from A, B, C & D (lb/hr)	TAPs Screening Emission Limit (EL) Increment[b] (lb/hr)	TAPs Emissions Exceed EL Increment?	Modeled? Meets AAC or AACC?
PAH HAPs				
2-Methylnaphthalene	4.31E-02			
3-Methylchloranthrene[e]	0.00E+00	2.50E-06	No	
Acenaphthene	7.91E-04			
Acenaphthylene	4.98E-03			
Anthracene	8.28E-04			
Benzo(a)anthracene	9.38E-05			
Benzo(a)pyrene[e]	3.97E-06	2.00E-06	Exceeds	**see POM**
Benzo(b)fluoranthene	2.98E-05			
Benzo(e)pyrene	3.62E-05			
Benzo(g,h,I)perylene	1.05E-05			
Benzo(k)fluoranthene	1.09E-05			
Chrysene	2.39E-04			
Dibenzo(a,h)anthracene	2.84E-07			
Dichlorobenzene	0.00E+00			
Fluoranthene	2.62E-04			
Fluorene	3.64E-03			
Indeno(1,2,3-cd)pyrene	1.94E-06			
Naphthalene[e]	1.48E-01	3.33	No	
Perylene	3.60E-05			
Phenanthrene	6.90E-03			
Pyrene	1.04E-03			
PolycyclicOrganicMatter[d,e]	3.80E-04	2.60E-06	Exceeds	
Non-HAP Organic Compounds				
Acetone[e]	1.89E-01	119	No	
Benzaldehyde	2.48E-02			
Butane	1.51E-01			
Butyraldehyde	3.60E-02			
Crotonaldehyde[e]	1.94E-02	0.38	No	
Ethylene	1.61E+00			
Heptane	2.12E+00	109	No	
Hexanal	2.48E-02			
Isovaleraldehyde	7.20E-03			
2-Methyl-1-pentene	9.00E-01			
2-Methyl-2-butene	1.31E-01			
3-Methylpentane	4.28E-02			
1-Pentene	4.95E-01			
n-Pentane[e]	4.73E-02	118	No	
Valeraldehyde (n-Valeraldehyde[e])	1.51E-02	11.7	No	
Metals				
Antimony[e]	1.17E-04	0.033	No	
Arsenic[e]	1.45E-04	1.50E-06	Exceeds	
Barium[e]	1.34E-03	0.033	No	
Beryllium[e]	4.06E-07	2.80E-05	No	
Cadmium[e]	9.81E-05	3.70E-06	Exceeds	
Chromium[e]	1.25E-03	0.033	No	
Cobalt[e]	9.37E-05	0.0033	No	
Copper[e]	7.23E-04	0.013	No	
Hexavalent Chromium[e]	1.05E-04	5.60E-07	Exceeds	
Manganese[e]	1.78E-03	0.067	No	
Mercury[e]	5.87E-04	0.003	No	
Molybdenum[e]	1.15E-05	0.333	No	
Nickel[e]	1.54E-02	2.70E-05	Exceeds	
Phosphorus[e]	6.44E-03	0.007	No	
Silver[e]	1.08E-04	0.007	No	
Selenium[e]	8.87E-05	0.013	No	
Thallium[e]	9.23E-07	0.007	No	
Vanadium[e]	4.64E-04	0.003	No	
Zinc[e]	1.41E-02	0.667	No	

a) Reserved.

b) Toxic Air Pollutants, IDAPA 58.01.01.585 and .586, levels in effect as of January 27, 2006

c) Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-*p*-dioxins and Dibenzofurans (CDDs and CDFs, 1989 update, EPA/625/3-89/016, March 1989 (Source: Mike Dubois, IDEQ State Office, April 2005)
n/a = not available. IDAPA 58.01.01.586, TAPs Carcinogenic Increments: Total of adjusted emission rates are treated as a single TAP (2,3,7,8 TCDD)

d) IDAPA 58.01.01.586, Polycyclic Organic Matter: Emissions of PAHs shown in bold shall be considered together as one TAP equivalent in potency to benzo(a)pyrene.

e) IDAPA Toxic Air Pollutant, 58.01.01.585 or .586

Facility: Gordon Paving Co., Inc.

4/18/2008 8:00 **Permit/Facility ID:** 0 xxx-xxxxx

CURRENT PTC ESTIMATES

TAPs EL Screen - ALL SOURCES

Maximum Emissions of Any Pollutant from Drum Mix HMA Plant with Fabric Filter, Tank Heater, Generator, Load-out/Silo/Asphalt Storage

A. Drum Mix Plant: 225 Tons/hour 1,200 Hours/year 270,000 Tons/year HMA throughput

Maximum emission for each pollutant from any fuel-burning option selected in "Facility Data" worksheet.

B. Tank Heater: 2.0000 MMBtu Rated 4,608 Hours/year **D. Include all emissions from Load-out/Silo/Storage? Yes**

Maximum emission for each pollutant for heater burning any fuel selected in "Facility Data" worksheet.

C. Generator: 0 gal/hour 0 Hours/year Small or Large Generator using Diesel Fuel

Pollutant	TOTAL of Max Emission Rates from A, B, C & D (lb/hr)	TAPs Screening Emission Limit (EL) Increment[b] (lb/hr)	TAPs Emissions Exceed EL Increment?	Modeled?
non-PAH HAPs[e]				
Bromomethane (Methyl bromide[e])	1.36E-04	1.27	No	
2-Butanone (see Methyl Ethyl Ketone)				
Carbon disulfide[e]	2.71E-04	2	No	
Chloroethane (Ethyl chloride[e])	3.94E-05	176	No	
Chloromethane (Methyl chloride[e])	3.56E-04	6.867	No	
Cumene[e]	1.03E-03	16.3	No	
n-Hexane[e] (see Hexane[e])				
Methylene chloride (Dichloromethane[e])	2.53E-06	1.60E-03	No	
MTBE	0.00E+00			
Styrene[e]	1.19E-04	6.67	No	
Tetrachloroethene (Tetrachloroethylene[e])	7.21E-05	1.30E-02	No	
1,1,1-Trichloroethane (see Methyl chloroform[e])				
Trichloroethene (Trichloroethylene[e])	0.00E+00	17.93	No	
Trichlorofluoromethane	1.22E-05			
m-/p-Xylene[e] (added into Xylene[e])				
o-Xylene[e] (added into Xylene[e])				
Phenol[a,f]	9.05E-04	1.27	No	
Non-HAP Organic Compounds				
Methane	3.04E-01			

a) For HMA facilities subject to NSPS (40 CFR 60, Subpart I), PTE includes fugitive emissions of PM from load-out, silo filling & storage tank operations.

e) IDAPA Toxic Air Pollutant, 58.01.01.585 or .586

Facility: **Gordon Paving Co., Inc.**
4/18/2008 8:00 **Permit/Facility ID:** **0 xxx-xxxxx**

#2 Fuel Oil Fired Drum Mix Asphalt Plant With Fabric Filter AP-42 Section 11.1

Fuel Type Toggle = 0
Hourly Throughput 225 T/hr
Annual Hours Operating 1,200 hrs/yr
Max Annual Throughput 270,000 Tons/yr (Theoretical Maximum HMA at Max. Annual Operating Hours)
Max Annual Throughput 270,000 Tons/yr (Proposed HMA Throughput Limit)

Pollutant	Emission Factor[a] (lb/ton)	Emissions (lb/hr)	Emissions at Max Hours (T/yr)	Emissions at Max Throughput (T/yr)
PM (total)[b]	0.033	0	0	0
PM-10 (total)[b]	0.023	0	0	0
P.M.-2.5 [b1]	*0.0029*	*0*	*0*	*0*
CO[c]	0.13	0	0	0
NOx[c]	0.055	0	0	0
SO_2[c]	250	0	0	0
VOC[d]	0.032	0	0	0
Lead	1.50E-05	0.00E+00	0.00E+00	0.00E+00
HCl[d,e]	No Data			
Dioxins[e]				
2,3,7,8-TCDD	2.10E-13	0	0	0
Total TCDD	9.30E-13	0	0	0
1,2,3,7,8-PeCDD	3.10E-13	0	0	0
Total PeCDD	2.20E-11	0	0	0
1,2,3,4,7,8-HxCDD	4.20E-13	0	0	0
1,2,3,6,7,8-HxCDD	1.30E-12	0	0	0
1,2,3,7,8,9-HxCDD	9.80E-13	0	0	0
Total HxCDD	1.20E-11	0	0	0
1,2,3,4,6,7,8-Hp-CDD	4.80E-12	0	0	0
Total HpCDD	1.90E-11	0	0	0
Octa CDD	2.50E-11	0	0	0
Total PCDD[h]	7.90E-11	0	0	0
Furans[e]				
2,3,7,8-TCDF	9.70E-13	0	0	0
Total TCDF	3.70E-12	0	0	0
1,2,3,7,8-PeCDF	4.30E-12	0	0	0
2,3,4,7,8-PeCDF	8.40E-13	0	0	0
Total PeCDF	8.40E-11	0	0	0
1,2,3,4,7,8-HxCDF	4.00E-12	0	0	0
1,2,3,6,7,8-HxCDF	1.20E-12	0	0	0
2,3,4,6,7,8-HxCDF	1.90E-12	0	0	0
1,2,3,7,8,9-HxCDF	8.40E-12	0	0	0
Total HxCDF	1.30E-11	0	0	0
1,2,3,4,6,7,8-HpCDF	6.50E-12	0	0	0
1,2,3,4,7,8,9-HpCDF	2.70E-12	0	0	0
Total HpCDF	1.00E-11	0	0	0
Octa CDF	4.80E-12	0	0	0
Total PCDF[h]	4.00E-11	0	0	0
Total PCDD/PCDF[h]	1.20E-10	0	0	0
Non-PAH HAPs[f]				
Acetaldehyde[e]				
Acrolein[e]				
Benzene[e]	3.90E-04	0.00E+00	0	0
1,3-Butadiene[e]				
Ethylbenzene[e]	2.40E-04	0.00E+00	0	0
Formaldehyde[e]	3.10E-03	0.00E+00	0	0
Hexane[e]	9.20E-04	0.00E+00	0	0
Isooctane	4.00E-05	0.00E+00	0	0
Methyl Ethyl Ketone[e]				
Pentane[e]				
Propionaldehyde[e]				
Quinone[e]				
Methyl chloroform[e]	4.80E-05	0.00E+00	0	0
Toluene[e]	2.90E-03	0.00E+00	0	0
Xylene[e]	2.00E-04	0.00E+00	0	0

Pollutant	Emission Factor[a] (lb/ton)	Emissions (lb/hr)	Emissions at Max Hours (T/yr)	Emissions at Max Throughput (T/yr)
PAH HAPs[f]				
2-Methylnaphthalene	0.00017	0.00E+00	0.00E+00	0.00E+00
3-Methylchloranthrene[e]				
Acenaphthene	1.40E-06	0.00E+00	0.00E+00	0.00E+00
Acenaphthylene	2.20E-05	0.00E+00	0.00E+00	0.00E+00
Anthracene	3.10E-06	0.00E+00	0.00E+00	0.00E+00
Benzo(a)anthracene	2.10E-07	0.00E+00	0.00E+00	0.00E+00
Benzo(a)pyrene[e]	9.80E-09	0.00E+00	0.00E+00	0.00E+00
Benzo(b)fluoranthene	1.00E-07	0.00E+00	0.00E+00	0.00E+00
Benzo(e)pyrene	1.10E-07	0.00E+00	0.00E+00	0.00E+00
Benzo(g,h,i)perylene	4.00E-08	0.00E+00	0.00E+00	0.00E+00
Benzo(k)fluoranthene	4.10E-08	0.00E+00	0.00E+00	0.00E+00
Chrysene	1.80E-07	0.00E+00	0.00E+00	0.00E+00
Dibenzo(a,h)anthracene				
Dichlorobenzene				
Fluoranthene	6.10E-07	0.00E+00	0.00E+00	0.00E+00
Fluorene	1.10E-05	0.00E+00	0.00E+00	0.00E+00
Indeno(1,2,3-cd)pyrene	7.00E-09	0.00E+00	0.00E+00	0.00E+00
Naphthalene[e]	0.00065	0.00E+00	0.00E+00	0.00E+00
Perylene	8.80E-09	0.00E+00	0.00E+00	0.00E+00
Phenanthrene	2.30E-05	0.00E+00	0.00E+00	0.00E+00
Pyrene	3.00E-06	0.00E+00	0.00E+00	0.00E+00
Non-HAP Organic Compounds[f]				
Acetone[e]				
Benzaldehyde				
Butane	6.70E-04	0.00E+00	0.00E+00	0.00E+00
Butyraldehyde				
Crotonaldehyde[e]				
Ethylene	7.00E-03	0.00E+00	0.00E+00	0.00E+00
Heptane	9.40E-03	0.00E+00	0.00E+00	0.00E+00
Hexanal				
Isovaleraldehyde				
2-Methyl-1-pentene	4.00E-03	0.00E+00	0.00E+00	0.00E+00
2-Methyl-2-butene	5.80E-04	0.00E+00	0.00E+00	0.00E+00
3-Methylpentane	1.90E-04	0.00E+00	0.00E+00	0.00E+00
1-Pentene	2.20E-03	0.00E+00	0.00E+00	0.00E+00
n-Pentane	2.10E-04	0.00E+00	0.00E+00	0.00E+00
Valeraldehyde				
Metals[g]				
Antimony[e]	1.80E-07	0.00E+00	0.00E+00	0.00E+00
Arsenic[e]	5.60E-07	0.00E+00	0.00E+00	0.00E+00
Barium[e]	5.80E-06	0.00E+00	0.00E+00	0.00E+00
Beryllium[e]	0	0.00E+00	0.00E+00	0.00E+00
Cadmium[e]	4.10E-07	0.00E+00	0.00E+00	0.00E+00
Chromium[e]	5.50E-06	0.00E+00	0.00E+00	0.00E+00
Cobalt[e]	2.60E-08	0.00E+00	0.00E+00	0.00E+00
Copper[e]	3.10E-06	0.00E+00	0.00E+00	0.00E+00
Hexavalent Chromium[e]	4.50E-07	0.00E+00	0.00E+00	0.00E+00
Manganese[e]	7.70E-06	0.00E+00	0.00E+00	0.00E+00
Mercury[e]	2.60E-06	0.00E+00	0.00E+00	0.00E+00
Molybdenum[e]				
Nickel[e]	6.30E-05	0.00E+00	0.00E+00	0.00E+00
Phosphorus[e]	2.80E-05	0.00E+00	0.00E+00	0.00E+00
Silver[e]	4.80E-07	0.00E+00	0.00E+00	0.00E+00
Selenium[e]	3.50E-07	0.00E+00	0.00E+00	0.00E+00
Thallium[e]	4.10E-09	0.00E+00	0.00E+00	0.00E+00
Vanadium[e]				
Zinc[e]	6.10E-05	0.00E+00	0.00E+00	0.00E+00

a) Emission factors are from AP-42 11.1, Hot Mix Asphalt Plants, 3/04
b) AP-42, Table 11.1-3, Particulate Matter Emission Factors for Drum Mix Hot Asphalt Plants, 3/04
b1) AP-42, Table 11.1-4, Summary of Particle Size Distribution for Drum Mix Dryers **(Emission Rating Factor E - "Poor")**
c) AP-42, Table 11.1-7, Emission Factors for CO. CO2, NOx, and SO2 from Drum Mix Hot Asphalt Plants, 3/04
d) AP-42, Table 11.1-8, Emission Factors for TOC, Methane, VOC, and HCl from Drum Mix Hot Asphalt Plants, 3/04
e) IDAPA Toxic Air Pollutant
f) AP-42, Table 11.1-10, Emission Factors for Organic Pollutant Emissions from Drum Mix Hot Asphalt Plants, 3/04
g) AP-42, Table 11.1-12, Emission Factors for Metal Emissions from Drum Mix Hot Mix Asphalt Plants, 3/04
h) Compound is classified as polycyclic organic matter, as defined in the 1990 CAAA. Total PCDD is the sum of the total tetra through octa dioxins; total PCDF is sum of the total tetra through octa furans; and total PCDD/PCDF is the sum of total PCDD and total PCDF.

Facility: Gordon Paving Co., Inc.
4/18/2008 8:00 **Permit/Facility ID:** 0 xxx-xxxxx

Used Oil Fired Drum Mix Asphalt Plant With Fabric Filter AP-42 Section 11.1

Fuel Type Toggle = 1
Hourly Throughput 225 T/hr
Annual Hours Operating 1,200 hrs/yr
Max Annual Throughput 270,000 Tons/yr (Theoretical Maximum at Max. Annual Operating Hours)
Max Annual Throughput 270,000 Tons/yr (Proposed Throughput Limit)

Weight % Sulfur = 0.50%
For %S greater than 0.5%, SO2 emissions have been multiplied by a factor:
(AP-42, 1.3 emissions at S%)/(AP-42, 1.3 emissions at 0.5

Pollutant	Emission Factor[a] (lb/ton)	Emissions (lb/hr)	Emissions at Max Hours (T/yr)	Emissions at Max Throughput (T/yr)
PM (total) [b]	0.033	7.425	4.46	4.455
PM-10 (total) [b]	0.023	5.175	3.11	3.105
P.M.-2.5 [b1]	*0.0029*	*0.6525*	0.39	0.3915
CO [c]	0.13	29.25	17.55	17.55
NOx [c]	0.055	12.375	7.43	7.425
SO_2 [c]	250	56250	33750.00	33750
VOC [d]	0.032	7.2	4.32	4.32
Lead	1.50E-05	3.38E-03	2.03E-03	2.03E-03
HCl [d,e]	0.00021	0.04725	0.03	0.02835
Dioxins[e,f]				
2,3,7,8-TCDD	2.10E-13	4.73E-11	2.84E-11	2.835E-11
Total TCDD	9.30E-13	2.09E-10	1.26E-10	1.2555E-10
1,2,3,7,8-PeCDD	3.10E-13	6.98E-11	4.19E-11	4.185E-11
Total PeCDD	2.20E-11	4.95E-09	2.97E-09	2.97E-09
1,2,3,4,7,8-HxCDD	4.20E-13	9.45E-11	5.67E-11	5.67E-11
1,2,3,6,7,8-HxCDD	1.30E-12	2.93E-10	1.76E-10	1.755E-10
1,2,3,7,8,9-HxCDD	9.80E-13	2.21E-10	1.32E-10	1.323E-10
Total HxCDD	1.20E-11	2.70E-09	1.62E-09	1.62E-09
1,2,3,4,6,7,8-Hp-CDD	4.80E-12	1.08E-09	6.48E-10	6.48E-10
Total HpCDD	1.90E-11	4.28E-09	2.57E-09	2.565E-09
Octa CDD	2.50E-11	5.63E-09	3.38E-09	3.375E-09
Total PCDD[h]	7.90E-11	1.78E-08	1.07E-08	1.0665E-08
Furans[e,f]				
2,3,7,8-TCDF	9.70E-13	2.18E-10	1.31E-10	1.3095E-10
Total TCDF	3.70E-12	8.33E-10	5.00E-10	4.995E-10
1,2,3,7,8-PeCDF	4.30E-12	9.68E-10	5.81E-10	5.805E-10
2,3,4,7,8-PeCDF	8.40E-13	1.89E-10	1.13E-10	1.134E-10
Total PeCDF	8.40E-11	1.89E-08	1.13E-08	1.134E-08
1,2,3,4,7,8-HxCDF	4.00E-12	9.00E-10	5.40E-10	5.4E-10
1,2,3,6,7,8-HxCDF	1.20E-12	2.70E-10	1.62E-10	1.62E-10
2,3,4,6,7,8-HxCDF	1.90E-12	4.28E-10	2.57E-10	2.565E-10
1,2,3,7,8,9-HxCDF	8.40E-12	1.89E-09	1.13E-09	1.134E-09
Total HxCDF	1.30E-11	2.93E-09	1.76E-09	1.755E-09
1,2,3,4,6,7,8-HpCDF	6.50E-12	1.46E-09	8.78E-10	8.775E-10
1,2,3,4,7,8,9-HpCDF	2.70E-12	6.08E-10	3.65E-10	3.645E-10
Total HpCDF	1.00E-11	2.25E-09	1.35E-09	1.35E-09
Octa CDF	4.80E-12	1.08E-09	6.48E-10	6.48E-10
Total PCDF[h]	4.00E-11	9.00E-09	5.40E-09	5.4E-09
Total PCDD/PCDF[h]	1.20E-10	2.70E-08	1.62E-08	1.62E-08
Non-PAH HAPs[f]				
Acetaldehyde[e]	1.30E-03	2.93E-01	1.76E-01	3.95E+01
Acrolein[e]	2.60E-05	5.85E-03	3.51E-03	7.90E-01
Benzene[e]	3.90E-04	8.78E-02	5.27E-02	1.18E+01
1,3-Butadiene[e]				
Ethylbenzene[e]	2.40E-04	5.40E-02	3.24E-02	7.29E+00
Formaldehyde[e]	3.10E-03	6.98E-01	4.19E-01	9.42E+01
Hexane[e]	9.20E-04	2.07E-01	1.24E-01	2.79E+01
Isooctane	4.00E-05	9.00E-03	5.40E-03	1.22E+00
Methyl Ethyl Ketone[e]	2.00E-05	4.50E-03	2.70E-03	6.08E-01
Pentane[e]				
Propionaldehyde[e]	1.30E-04	2.93E-02	1.76E-02	3.95E+00
Quinone[e]	1.60E-04	3.60E-02	0.00E+00	4.86E+00
Methyl chloroform[e]	4.80E-05	1.08E-02	0.00E+00	1.46E+00
Toluene[e]	2.90E-03	6.53E-01	0.00E+00	8.81E+01
Xylene[e]	2.00E-04	4.50E-02	2.70E-02	6.08E+00

Pollutant	Emission Factor[a] (lb/ton)	Emissions (lb/hr)	Emissions at Max Hours (T/yr)	Emissions at Max Throughput (T/yr)
PAH HAPs[f]				
2-Methylnaphthalene	1.70E-04	3.83E-02	2.30E-02	2.30E-02
3-Methylchloranthrene[e]				
Acenaphthene	1.40E-06	3.15E-04	1.89E-04	1.89E-04
Acenaphthylene	2.20E-05	4.95E-03	2.97E-03	2.97E-03
Anthracene	3.10E-06	6.98E-04	4.19E-04	4.19E-04
Benzo(a)anthracene	2.10E-07	4.73E-05	2.84E-05	2.84E-05
Benzo(a)pyrene[e]	9.80E-09	2.21E-06	1.32E-06	1.32E-06
Benzo(b)fluoranthene	1.00E-07	2.25E-05	1.35E-05	1.35E-05
Benzo(e)pyrene	1.10E-07	2.48E-05	1.49E-05	1.49E-05
Benzo(g,h,i)perylene	4.00E-08	9.00E-06	5.40E-06	5.40E-06
Benzo(k)fluoranthene	4.10E-08	9.23E-06	5.54E-06	5.54E-06
Chrysene	1.80E-07	4.05E-05	2.43E-05	2.43E-05
Dibenzo(a,h)anthracene				
Dichlorobenzene				
Fluoranthene	6.10E-07	1.37E-04	8.24E-05	8.24E-05
Fluorene	1.10E-05	2.48E-03	1.49E-03	1.49E-03
Indeno(1,2,3-cd)pyrene	7.00E-09	1.58E-06	9.45E-07	9.45E-07
Naphthalene[e]	6.50E-04	1.46E-01	8.78E-02	8.78E-02
Perylene	8.80E-09	1.98E-06	1.19E-06	1.19E-06
Phenanthrene	2.30E-05	5.18E-03	3.11E-03	3.11E-03
Pyrene	3.00E-06	6.75E-04	4.05E-04	4.05E-04
Non-HAP Organic Compounds[f]				
Acetone[e]	8.30E-04	1.87E-01	1.12E-01	1.12E-01
Benzaldehyde	1.10E-04	2.48E-02	1.49E-02	1.49E-02
Butane	6.70E-04	1.51E-01	9.05E-02	9.05E-02
Butyraldehyde	1.60E-04	3.60E-02	2.16E-02	2.16E-02
Crotonaldehyde[e]	8.60E-05	1.94E-02	1.16E-02	1.16E-02
Ethylene	7.00E-03	1.58E+00	9.45E-01	9.45E-01
Heptane	9.40E-03	2.12E+00	1.27E+00	1.27E+00
Hexanal	1.10E-04	2.48E-02	1.49E-02	1.49E-02
Isovaleraldehyde	3.20E-05	7.20E-03	4.32E-03	4.32E-03
2-Methyl-1-pentene	4.00E-03	9.00E-01	5.40E-01	5.40E-01
2-Methyl-2-butene	5.80E-04	1.31E-01	7.83E-02	7.83E-02
3-Methylpentane	1.90E-04	4.28E-02	2.57E-02	2.57E-02
1-Pentene	2.20E-03	4.95E-01	2.97E-01	2.97E-01
n-Pentane	2.10E-04	4.73E-02	2.84E-02	2.84E-02
Valeraldehyde[e]	6.70E-05	1.51E-02	9.05E-03	9.05E-03
Metals[g]				
Antimony[e]	1.80E-07	4.05E-05	2.43E-05	2.43E-05
Arsenic[e]	5.60E-07	1.26E-04	7.56E-05	7.56E-05
Barium[e]	5.80E-06	1.31E-03	7.83E-04	7.83E-04
Beryllium[e]	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cadmium[e]	4.10E-07	9.23E-05	5.54E-05	5.54E-05
Chromium[e]	5.50E-06	1.24E-03	7.43E-04	7.43E-04
Cobalt[e]	2.60E-08	5.85E-06	3.51E-06	3.51E-06
Copper[e]	3.10E-06	6.98E-04	4.19E-04	4.19E-04
Hexavalent Chromium[e]	4.50E-07	1.01E-04	6.08E-05	6.08E-05
Manganese[e]	7.70E-06	1.73E-03	1.04E-03	1.04E-03
Mercury[e]	2.60E-06	5.85E-04	3.51E-04	3.51E-04
Molybdenum[e]				
Nickel[e]	6.30E-05	1.42E-02	8.51E-03	8.51E-03
Phosphorus[e]	2.80E-05	6.30E-03	3.78E-03	3.78E-03
Silver[e]	4.80E-07	1.08E-04	6.48E-05	6.48E-05
Selenium[e]	3.50E-07	7.88E-05	4.73E-05	4.73E-05
Thallium[e]	4.10E-09	9.23E-07	5.54E-07	5.54E-07
Vanadium[e]				
Zinc[e]	6.10E-05	1.37E-02	8.24E-03	8.24E-03

a) Emission factors are from AP-42 11.1, Hot Mix Asphalt Plants, 3/04
b) AP-42, Table 11.1-3, Particulate Matter Emission Factors for Drum Mix Hot Asphalt Plants, 3/04
b1) AP-42, Table 11.1-4, Summary of Particle Size Distribution for Drum Mix Dryers **(Emission Rating Factor E - "Poor")**
c) AP-42, Table 11.1-7, Emission Factors for CO. CO2, NOx, and SO2 from Drum Mix Hot Asphalt Plants, 3/04
d) AP-42, Table 11.1-8, Emission Factors for TOC, Methane, VOC, and HCl from Drum Mix Hot Asphalt Plants, 3/04
e) IDAPA Toxic Air Pollutant
f) AP-42, Table 11.1-10, Emission Factors for Organic Pollutant Emissions from Drum Mix Hot Asphalt Plants, 3/04
g) AP-42, Table 11.1-12, Emission Factors for Metal Emissions from Drum Mix Hot Mix Asphalt Plants, 3/04
h) Compound is classified as polycyclic organic matter, as defined in the 1990 CAAA. Total PCDD is the sum of the total tetra through octa dioxins; total PCDF is sum of the total tetra through octa furans; and total PCDD/PCDF is the sum of total PCDD and total PCDF.

Pollutants shown in bold/blue text are emitted when using Used Oil but not when using #2 Fuel Oil or Natural Gas.
Pollutants shown in magenta are emitted when using Used Oil or #2 Fuel Oil, but not when using Natural Gas

Facility: **Gordon Paving Co., Inc.**
4/18/2008 8:00 **Permit/ Facility ID:** **0 xxx-xxxxx**

Natural Gas Fired Drum Mix Asphalt Plant With Fabric Filter AP-42 Section 11.1

Fuel Type Toggle = 0
Maximum Hourly Throughput 225 Tons/hr
Annual Hours Operating 1,200 hrs/yr
Max Annual Throughput 270,000 Tons/yr (Theoretical Maximum at Max. Annual Operating Hours)
Max Annual Throughput 270,000 Tons/yr (Proposed Throughput Limit)

Pollutant	Emission Factor[a] (lb/ton)	Emissions (lb/hr)	Emissions at Max Hours (T/yr)	Emissions at Max Throughput (T/yr)
PM (total)[b]	0.033	0	0	0
PM-10 (total)[b]	0.023	0	0	0
P.M.-2.5 [b1]	*0.0029*	*0*	*0*	*0*
CO [c]	0.13	0	0	0
NOx [c]	0.026	0	0	0
SO_2 [c]	250	0	0	0
VOC [d]	0.032	0	0	0
Lead	6.20E-07	0.00E+00	0.00E+00	0.00E+00
HCl [d,e]	No Data			
Dioxins[e]				
-- No EFs for Natural Gas Fuel --				
Furans[e]				
-- No EFs for Natural Gas Fuel --				
Non-PAH HAPs[f]				
Acetaldehyde[e]				
Acrolein[e]				
Benzene[e]	3.90E-04	0.00E+00	0	0
1,3-Butadiene[e]				
Ethylbenzene[e]	2.40E-04	0.00E+00	0	0
Formaldehyde[e]	3.10E-03	0.00E+00	0	0
Hexane[e]	9.20E-04	0.00E+00	0	0
Isooctane	4.00E-05	0.00E+00	0	0
Methyl Ethyl Ketone[e]				
Pentane[e]				
Propionaldehyde[e]				
Quinone[e]				
Methyl chloroform[e]	4.80E-05	0.00E+00	0	0
Toluene[e]	1.50E-04	0.00E+00	0	0
Xylene[e]	2.00E-04	0.00E+00	0	0

Pollutant	Emission Factor[a] (lb/ton)	Emissions (lb/hr)	Emissions at Max Hours (T/yr)	Emissions at Max Throughput (T/yr)
PAH HAPs[f]				
2-Methylnaphthalene	7.40E-05	0.00E+00	0	0.00E+00
3-Methylchloranthrene[e]				
Acenaphthene	1.40E-06	0.00E+00	0	0.00E+00
Acenaphthylene	8.60E-06	0.00E+00	0	0.00E+00
Anthracene	2.20E-07	0.00E+00	0	0.00E+00
Benzo(a)anthracene	2.10E-07	0.00E+00	0	0.00E+00
Benzo(a)pyrene[e]	9.80E-09	0.00E+00	0	0.00E+00
Benzo(b)fluoranthene	1.00E-07	0.00E+00	0	0.00E+00
Benzo(e)pyrene	1.10E-07	0.00E+00	0	0.00E+00
Benzo(g,h,I)perylene	4.00E-08	0.00E+00	0	0.00E+00
Benzo(k)fluoranthene	4.10E-08	0.00E+00	0	0.00E+00
Chrysene	1.80E-07	0.00E+00	0	0.00E+00
Dibenzo(a,h)anthracene				
Dichlorobenzene				
Fluoranthene	6.10E-07	0.00E+00	0	0.00E+00
Fluorene	3.80E-06	0.00E+00	0	0.00E+00
Indeno(1,2,3-cd)pyrene	7.00E-09	0.00E+00	0	0.00E+00
Naphthalene[e]	9.00E-05	0.00E+00	0	0.00E+00
Perylene	8.80E-09	0.00E+00	0	0.00E+00
Phenanthrene	7.60E-06	0.00E+00	0	0.00E+00
Pyrene	5.40E-07	0.00E+00	0	0.00E+00
Non-HAPs Organic Compounds[f]				
Acetone[e]				
Benzaldehyde				
Butane	6.70E-04	0.00E+00	0.00E+00	0.00E+00
Butyraldehyde				
Crotonaldehyde[e]				
Ethylene	7.00E-03	0.00E+00	0.00E+00	0.00E+00
Heptane	9.40E-03	0.00E+00	0.00E+00	0.00E+00
Hexanal				
Isovaleraldehyde				
2-Methyl-1-pentene	4.00E-03	0.00E+00	0.00E+00	0.00E+00
2-Methyl-2-butene	5.80E-04	0.00E+00	0.00E+00	0.00E+00
3-Methylpentane	1.90E-04	0.00E+00	0.00E+00	0.00E+00
1-Pentene	2.20E-03	0.00E+00	0.00E+00	0.00E+00
n-Pentane	2.10E-04	0.00E+00	0.00E+00	0.00E+00
Valeraldehyde				
Metals[g]				
Antimony[e]	1.80E-07	0.00E+00	0.00E+00	0.00E+00
Arsenic[e]	5.60E-07	0.00E+00	0.00E+00	0.00E+00
Barium[e]	5.80E-06	0.00E+00	0.00E+00	0.00E+00
Beryllium[e]	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cadmium[e]	4.10E-07	0.00E+00	0.00E+00	0.00E+00
Chromium[e]	5.50E-06	0.00E+00	0.00E+00	0.00E+00
Cobalt[e]	2.60E-08	0.00E+00	0.00E+00	0.00E+00
Copper[e]	3.10E-06	0.00E+00	0.00E+00	0.00E+00
Hexavalent Chromium[e]	4.50E-07	0.00E+00	0.00E+00	0.00E+00
Manganese[e]	7.70E-06	0.00E+00	0.00E+00	0.00E+00
Mercury[e]	2.40E-07	0.00E+00	0.00E+00	0.00E+00
Molybdenum[e]				
Nickel[e]	6.30E-05	0.00E+00	0.00E+00	0.00E+00
Phosphorus[e]	2.80E-05	0.00E+00	0.00E+00	0.00E+00
Silver[e]	4.80E-07	0.00E+00	0.00E+00	0.00E+00
Selenium[e]	3.50E-07	0.00E+00	0.00E+00	0.00E+00
Thallium[e]	4.10E-09	0.00E+00	0.00E+00	0.00E+00
Vanadium[e]				
Zinc[e]	6.10E-05	0.00E+00	0.00E+00	0.00E+00

a) Emission factors are from AP-42 11.1, Hot Mix Asphalt Plants, 3/04
b) AP-42, Table 11.1-3, Particulate Matter Emission Factors for Drum Mix Hot Asphalt Plants, 3/04
b1) AP-42, Table 11.1-4, Summary of Particle Size Distribution for Drum Mix Dryers **(Emission Rating Factor E - "Poor")**
c) AP-42, Table 11.1-7, Emission Factors for CO. CO2, NOx, and SO2 from Drum Mix Hot Asphalt Plants, 3/04
d) AP-42, Table 11.1-8, Emission Factors for TOC, Methane, VOC, and HCl from Drum Mix Hot Asphalt Plants, 3/04
e) IDAPA Toxic Air Pollutant
f) AP-42, Table 11.1-10, Emission Factors for Organic Pollutant Emissions from Drum Mix Hot Asphalt Plants, 3/04
g) AP-42, Table 11.1-12, Emission Factors for Metal Emissions from Drum Mix Hot Mix Asphalt Plants, 3/04

Facility: Gordon Paving Co., Inc.
4/18/2008 8:00 **Permit/ Facility ID:** 0 xxx-xxxxx

LPG or Propane Fired Drum Mix Asphalt Plant With Fabric Filter

Fuel Type Toggle = 0
Maximum Hourly Throughput 225 Tons/hr
Annual Hours Operating 1,200 hrs/yr
Max Annual Throughput 270,000 Tons/yr (Theoretical Maximum at Max. Annual Operating Hours)
Max Annual Throughput 270,000 Tons/yr (Proposed Throughput Limit)

Note: Presumes same emissions as natural gas except for NOx (see AP-42, Section 1.5, Liquefied Petroleum Gas Combustion) SO2 emissions from natural gas are ~70% lower than with #2 Fuel Oil, and ~94% lower than with Used Oil or #6 Fuel Oil (minimal impact on emissions, used Nat Gas E

Pollutant	Emission Factor[a] (lb/ton)	Emissions (lb/hr)	Emissions at Max Hours (T/yr)	Emissions at Max Throughput (T/yr)
PM (total)[b]	0.033	0	0	0
PM-10 (total)[b]	0.023	0	0	0
P.M.-2.5 [b1]	*0.0029*	*0*	*0*	*0*
CO [c]	0.13	0	0	0
NOx [c1] (Natural Gas EF x 1.5)	0.039	0	0	0
SO_2 [c]	250	0	0	0
VOC [d]	0.032	0	0	0
Lead	6.20E-07	0	0	0
HCl [d,e]	No Data			
Dioxins[e]				
-- No EFs for LP Gas or Propane Fuel --				
Furans[e]				
-- No EFs for LP Gas or Propane Fuel --				
Non-PAH HAPs[f]				
Acetaldehyde[e]				
Acrolein[e]				
Benzene[e]	3.90E-04	0.00E+00	0	0
1,3-Butadiene[e]				
Ethylbenzene[e]	2.40E-04	0.00E+00	0	0
Formaldehyde[e]	3.10E-03	0.00E+00	0	0
Hexane[e]	9.20E-04	0.00E+00	0	0
Isooctane	4.00E-05	0.00E+00	0	0
Methyl Ethyl Ketone[e]				
Pentane[e]				
Propionaldehyde[e]				
Quinone[e]				
Methyl chloroform[e]	4.80E-05	0.00E+00	0	0
Toluene[e]	1.50E-04	0.00E+00	0	0
Xylene[e]	2.00E-04	0.00E+00	0	0

Pollutant	Emission Factor[a] (lb/ton)	Emissions (lb/hr)	Emissions at Max Hours (T/yr)	Emissions at Max Throughput (T/yr)
PAH HAPs[f]				
2-Methylnaphthalene	7.40E-05	0.00E+00	0	0.00E+00
3-Methylchloranthrene[e]				
Acenaphthene	1.40E-06	0.00E+00	0	0.00E+00
Acenaphthylene	8.60E-06	0.00E+00	0	0.00E+00
Anthracene	2.20E-07	0.00E+00	0	0.00E+00
Benzo(a)anthracene	2.10E-07	0.00E+00	0	0.00E+00
Benzo(a)pyrene[e]	9.80E-09	0.00E+00	0	0.00E+00
Benzo(b)fluoranthene	1.00E-07	0.00E+00	0	0.00E+00
Benzo(e)pyrene	1.10E-07	0.00E+00	0	0.00E+00
Benzo(g,h,I)perylene	4.00E-08	0.00E+00	0	0.00E+00
Benzo(k)fluoranthene	4.10E-08	0.00E+00	0	0.00E+00
Chrysene	1.80E-07	0.00E+00	0	0.00E+00
Dibenzo(a,h)anthracene				
Dichlorobenzene				
Fluoranthene	6.10E-07	0.00E+00	0	0.00E+00
Fluorene	3.80E-06	0.00E+00	0	0.00E+00
Indeno(1,2,3-cd)pyrene	7.00E-09	0.00E+00	0	0.00E+00
Naphthalene[e]	9.00E-05	0.00E+00	0	0.00E+00
Perylene	8.80E-09	0.00E+00	0	0.00E+00
Phenanthrene	7.60E-06	0.00E+00	0	0.00E+00
Pyrene	5.40E-07	0.00E+00	0	0.00E+00
Non-HAPs Organic Compounds[f]				
Acetone[e]				
Benzaldehyde				
Butane	6.70E-04	0.00E+00	0.00E+00	0.00E+00
Butyraldehyde				
Crotonaldehyde[e]				
Ethylene	7.00E-03	0.00E+00	0.00E+00	0.00E+00
Heptane	9.40E-03	0.00E+00	0.00E+00	0.00E+00
Hexanal				
Isovaleraldehyde				
2-Methyl-1-pentene	4.00E-03	0.00E+00	0.00E+00	0.00E+00
2-Methyl-2-butene	5.80E-04	0.00E+00	0.00E+00	0.00E+00
3-Methylpentane	1.90E-04	0.00E+00	0.00E+00	0.00E+00
1-Pentene	2.20E-03	0.00E+00	0.00E+00	0.00E+00
n-Pentane	2.10E-04	0.00E+00	0.00E+00	0.00E+00
Valeraldehyde				
Metals[g]				
Antimony[e]	1.80E-07	0.00E+00	0.00E+00	0.00E+00
Arsenic[e]	5.60E-07	0.00E+00	0.00E+00	0.00E+00
Barium[e]	5.80E-06	0.00E+00	0.00E+00	0.00E+00
Beryllium[e]	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cadmium[e]	4.10E-07	0.00E+00	0.00E+00	0.00E+00
Chromium[e]	5.50E-06	0.00E+00	0.00E+00	0.00E+00
Cobalt[e]	2.60E-08	0.00E+00	0.00E+00	0.00E+00
Copper[e]	3.10E-06	0.00E+00	0.00E+00	0.00E+00
Hexavalent Chromium[e]	4.50E-07	0.00E+00	0.00E+00	0.00E+00
Manganese[e]	7.70E-06	0.00E+00	0.00E+00	0.00E+00
Mercury[e]	2.40E-07	0.00E+00	0.00E+00	0.00E+00
Molybdenum[e]				
Nickel[e]	6.30E-05	0.00E+00	0.00E+00	0.00E+00
Phosphorus[e]	2.80E-05	0.00E+00	0.00E+00	0.00E+00
Silver[e]	4.80E-07	0.00E+00	0.00E+00	0.00E+00
Selenium[e]	3.50E-07	0.00E+00	0.00E+00	0.00E+00
Thallium[e]	4.10E-09	0.00E+00	0.00E+00	0.00E+00
Vanadium[e]				
Zinc[e]	6.10E-05	0.00E+00	0.00E+00	0.00E+00

a) Emission factors are from AP-42 11.1, Hot Mix Asphalt Plants, 3/04
b) AP-42, Table 11.1-3, Particulate Matter Emission Factors for Drum Mix Hot Asphalt Plants, 3/04
b1) AP-42, Table 11.1-4, Summary of Particle Size Distribution for Drum Mix Dryers **(Emission Rating Factor E - "Poor")**
c) AP-42, Table 11.1-7, Emission Factors for CO. CO2, NOx, and SO2 from Drum Mix Hot Asphalt Plants, 3/04
c1) AP-42, Table 1.5-1, Emission Factors for LPG Combustion, note (a): "Assumes emissions (except SOx and NOx) are the same, on a heat input basis, as for natural gas combustion. The NOx emission factors have been multiplied by a factor of 1.5, which is the approximate ration of propane/butane NOx emissions to natural gas NOx emission
d) AP-42, Table 11.1-8, Emission Factors for TOC, Methane, VOC, and HCl from Drum Mix Hot Asphalt Plants, 3/04
e) IDAPA Toxic Air Pollutant
f) AP-42, Table 11.1-10, Emission Factors for Organic Pollutant Emissions from Drum Mix Hot Asphalt Plants, 3/04
g) AP-42, Table 11.1-12, Emission Factors for Metal Emissions from Drum Mix Hot Mix Asphalt Plants, 3/04

Facility: Gordon Paving Co., Inc.
4/18/2008 8:00 **Permit/Facility ID:** 0 xxx-xxxxx

Asphalt Tank Heater - #2 Oil Fired, Estimated Emissions Using AP42 Sections 11.1 (HMA Plants) & 1.3 (Fuel Oil Combustion)

Fuel Type Toggle = 1
Fuel Consumption Rate 14.60 gal/hr
Max Annual Hours Operating 4,608 hrs/yr (Theoretical Maximum)
Proposed Max Hrs Operating 4,608 hrs/yr

Maximum fuel sulfur % = 0.5

Pollutant	Emission Factor[a] (lb/gal)	Emissions (lb/hr)	Emissions at Max Hours (T/yr)	Emissions at Proposed Max Hrs (T/yr)
PM (total)[b] (filterable)	0.002	2.92E-02	0.07	0.07
PM-10 (total)[b] (filterable)	0.002	2.92E-02	0.07	0.07
P.M.-2.5				
CO[b] ("C" EF Rating Factor)	0.005	7.30E-02	0.17	0.17
NOx[b]	0.02	2.92E-01	0.67	0.67
SO_2[b]	250	3.65E+03	8406.92	8406.92
VOC[d] (TOC EF)	5.56E-04	8.12E-03	1.87E-02	1.87E-02
Lead[f]	1.51E-06	2.20E-05	5.08E-05	5.08E-05
HCl[e]				
Dioxins[e]				
2,3,7,8-TCDD				
Total TCDD				
1,2,3,7,8-PeCDD				
Total PeCDD				
1,2,3,4,7,8-HxCDD[c]	6.90E-13	1.01E-11	2.32E-11	2.32E-11
1,2,3,6,7,8-HxCDD				
1,2,3,7,8,9-HxCDD[c]	7.60E-13	1.11E-11	2.56E-11	2.56E-11
Total HxCDD				
1,2,3,4,6,7,8-Hp-CDD[c]	1.50E-11	2.19E-10	5.04E-10	5.04E-10
Total $HpCDD_c$	2.00E-11	2.92E-10	6.73E-10	6.73E-10
Octa CDD[c]	1.60E-10	2.34E-09	5.38E-09	5.38E-09
Total PCDD[c]	2.00E-10	2.92E-09	6.73E-09	6.73E-09
Furans[e]				
2,3,7,8-TCDF				
Total TCDF[c]	3.30E-12	4.82E-11	1.11E-10	1.11E-10
1,2,3,7,8-PeCDF				
2,3,4,7,8-PeCDF				
Total PeCDF[c]	4.80E-13	7.01E-12	1.61E-11	1.61E-11
1,2,3,4,7,8-HxCDF				
1,2,3,6,7,8-HxCDF				
2,3,4,6,7,8-HxCDF				
1,2,3,7,8,9-HxCDF				
Total HxCDF[c]	2.00E-12	2.92E-11	6.73E-11	6.73E-11
1,2,3,4,6,7,8-HpCDF				
1,2,3,4,7,8,9-HpCDF				
Total HpCDF[c]	9.70E-12	1.42E-10	3.26E-10	3.26E-10
Octa CDF[c]	1.20E-11	1.75E-10	4.04E-10	4.04E-10
Total PCDF[c]	3.10E-11	4.52E-10	1.04E-09	1.04E-09
Total PCDD/PCDF[c]	2.30E-10	3.36E-09	7.73E-09	7.73E-09
Non-PAH HAPs				
Acetaldehyde[e]				
Acrolein[e]				
Benzene[e]				
1,3-Butadiene[e]				
Ethylbenzene[e]				
Formaldehyde[c,e]	3.50E-06	5.11E-05	1.18E-04	1.18E-04
Hexane[e]				
Isooctane				
Methyl Ethyl Ketone[e]				
Pentane[e]				
Propionaldehyde[e]				
Quinone[e]				
Methyl chloroform[e]				
Toluene[e]				
Xylene[e]				

Pollutant	Emission Factor[a] (lb/gal)	Emissions (lb/hr)	Emissions at Max Hours (T/yr)	Emissions at Proposed Max Hrs (T/yr)
PAH HAPs				
2-Methylnaphthalene				
3-Methylchloranthrene[e]				
Acenaphthene[c]	5.30E-07	7.74E-06	1.78E-05	1.78E-05
Acenaphthylene[c]	2.00E-07	2.92E-06	6.73E-06	6.73E-06
Anthracene[c]	1.80E-07	2.63E-06	6.05E-06	6.05E-06
Benzo(a)anthracene				
Benzo(a)pyrene[e]				
Benzo(b)fluoranthene[c]	1.00E-07	1.46E-06	3.36E-06	3.36E-06
Benzo(e)pyrene				
Benzo(g,h,I)perylene				
Benzo(k)fluoranthene				
Chrysene				
Dibenzo(a.h)anthracene				
Dichlorobenzene				
Fluoranthene[c]	4.40E-08	6.42E-07	1.48E-06	1.48E-06
Fluorene[c]	3.20E-08	4.67E-07	1.08E-06	1.08E-06
Indeno(1,2,3-cd)pyrene				
Naphthalene[c,e]	1.70E-05	2.48E-04	5.72E-04	5.72E-04
Perylene				
Phenanthrene[c]	4.90E-06	7.15E-05	1.65E-04	1.65E-04
Pyrene[c]	3.20E-08	4.67E-07	1.08E-06	1.08E-06
Non-HAP Organic Compounds				
Acetone[e]				
Benzaldehyde				
Butane				
Butyraldehyde				
Crotonaldehyde[e]				
Ethylene				
Heptane				
Hexanal				
Isovaleraldehyde				
2-Methyl-1-pentene				
2-Methyl-2-butene				
3-Methylpentane				
1-Pentene				
n-Pentane				
Valeraldehyde				
Metals[f]				
Antimony[e]	5.25E-06	7.66E-05	1.77E-04	1.77E-04
Arsenic[e]	1.32E-06	1.93E-05	4.44E-05	4.44E-05
Barium[e]	2.57E-06	3.75E-05	8.64E-05	8.64E-05
Beryllium[e]	2.78E-08	4.06E-07	9.35E-07	9.35E-07
Cadmium[e]	3.98E-07	5.81E-06	1.34E-05	1.34E-05
Chromium[e]	8.45E-07	1.23E-05	2.84E-05	2.84E-05
Cobalt[e]	6.02E-06	8.79E-05	2.02E-04	2.02E-04
Copper[e]	1.76E-06	2.57E-05	5.92E-05	5.92E-05
Hexavalent Chromium[e]	2.48E-07	3.62E-06	8.34E-06	8.34E-06
Manganese[e]	3.00E-06	4.38E-05	1.01E-04	1.01E-04
Mercury[e]	1.13E-07	1.65E-06	3.80E-06	3.80E-06
Molybdenum[e]	7.87E-07	1.15E-05	2.65E-05	2.65E-05
Nickel[e]	8.45E-05	1.23E-03	2.84E-03	2.84E-03
Phosphorus[e]	9.46E-06	1.38E-04	3.18E-04	3.18E-04
Silver[e]				
Selenium[e]	6.83E-07	9.97E-06	2.30E-05	2.30E-05
Thallium[e]				
Vanadium[e]	3.18E-05	4.64E-04	1.07E-03	1.07E-03
Zinc[e]	2.91E-05	4.25E-04	9.79E-04	9.79E-04

a) Emission factors for criteria pollutants are from AP-42, 1.3, Fuel Oil Combustion, 9/98; all other factors are from AP-42 11.1, Hot Mix Asphalt Plants, 3/04
b) AP-42, Table 1.3-1, Criteria Pollutant Emission Factors for Fuel Oil Combustion, 9/98, Boilers < 100 MMBtu, SOx based on max fuel sulfur content
c) AP-42, Table 11.1-13, Emission Factors for Hot Mix Asphalt Hot Oil Systems, 3/04
d) AP-42, Table 1.3-3, Emission Factors for Total Organic Compounds (TOC), Methane, and Nonmethane TOC (NMTOC) from Uncontrolled Fuel Oil Combustion; Comm B
e) IDAPA Toxic Air Pollutant
f) AP-42, Table 1.3-11, Emission Factors for Metals from Uncontrolled No. 6 Fuel Oil Combustion

Facility: Gordon Paving Co., Inc.
4/18/2008 8:00 **Permit/Facility ID:** **0 xxx-xxxxx** **0.000169**

Asphalt Tank Heater - Natural Gas Fired, Estimated Emissions Using AP42 Section 11.1 (Hot Mix Asphalt Plants)

Fuel Type Toggle = 0
Fuel Consumption Rate 1,905 scf/hr
Max Annual Hours Operating 4,608 hrs/yr (Theoretical Maximum)
Proposed Max Hrs Operating 4,608 hrs/yr

Note: CO EF per AP-42 Table 1.4.1 for natural gas combustion in boilers is 84 lb/MMscf, a factor of 10 higher than the factor shown in Table 11.1-13

Pollutant	Emission Factor[a] (lb/scf)	Emissions (lb/hr)	Emissions at Max Hours (T/yr)	Emissions at Proposed Max Hrs (T/yr)
PM (total)				
PM-10 (total)				
P.M.-2.5				
CO [c]	**8.90E-06**	0.00E+00	0.00E+00	0.00E+00
NOx				
SO_2	250			
VOC				
Lead				
HCl [e]				
Dioxins[e]				
-- No EFs for Natural Gas Fuel --				
Furans[e]				
-- No EFs for Natural Gas Fuel --				
Non-PAH HAPs				
Acetaldehyde[e]				
Acrolein[e]				
Benzene[e]				
1,3-Butadiene[e]				
Ethylbenzene[e]				
Formaldehyde[c,e]	2.60E-08	0.00E+00	0.00E+00	0.00E+00
Hexane[e]				
Isooctane				
Methyl Ethyl Ketone[e]				
Pentane[e]				
Propionaldehyde[e]				
Quinone[e]				
Methyl chloroform[e]				
Toluene[e]				
Xylene[e]				

Pollutant	Emission Factor[a] (lb/scf)	Emissions (lb/hr)	Emissions at Max Hours (T/yr)	Emissions at Proposed Max Hrs (T/yr)
PAH HAPs				
2-Methylnaphthalene				
3-Methylchloranthrene[e]				
Acenaphthene				
Acenaphthylene				
Anthracene				
Benzo(a)anthracene				
Benzo(a)pyrene[e]				
Benzo(b)fluoranthene				
Benzo(e)pyrene				
Benzo(g,h,I)perylene				
Benzo(k)fluoranthene				
Chrysene				
Dibenzo(a,h)anthracene				
Dichlorobenzene				
Fluoranthene				
Fluorene				
Indeno(1,2,3-cd)pyrene				
Naphthalene[e]				
Perylene				
Phenanthrene				
Pyrene				
Non-HAPs Organic Compounds				
Acetone[e]				
Benzaldehyde				
Butane				
Butyraldehyde				
Crotonaldehyde[e]				
Ethylene				
Heptane				
Hexanal				
Isovaleraldehyde				
2-Methyl-1-pentene				
2-Methyl-2-butene				
3-Methylpentane				
1-Pentene				
n-Pentane				
Valeraldehyde				
Metals				
Antimony[e]				
Arsenic[e]				
Barium[e]				
Beryllium[e]				
Cadmium[e]				
Chromium[e]				
Cobalt[e]				
Copper[e]				
Hexavalent Chromium[e]				
Manganese[e]				
Mercury[e]				
Molybdenum[e]				
Nickel[e]				
Phosphorus[e]				
Silver[e]				
Selenium[e]				
Thallium[e]				
Vanadium[e]				
Zinc[e]				

a) Emission factors are from AP-42
b) (reserved)
c) AP-42, Table 11.1-13, Emission Factors for Hot Mix Asphalt Hot Oil Systems, 3/04
d) (reserved)
e) IDAPA Toxic Air Pollutant

Facility: Gordon Paving Co., Inc.
4/18/2008 8:00 **Permit/Facility ID:** 0 xxx-xxxxx

Asphalt Tank Heater - Natural Gas Fired, Estimated Emissions Using AP42 Section 1.4 (Natural Gas Combustion)

Fuel Type Toggle = 0
Fuel Consumption Rate 1,905 scf/hr
Max Annual Hours Operating 4,608 hrs/yr (Theoretical Maximum)
Proposed Max Hrs Operating 4,608 hrs/yr
Heating Value Correction: 1.029 applied to Emissions (lb/hr, T/yr) calculations

Note: CO EF per AP-42 Table 1.4.1 for natural gas combustion in boilers is 84 lb/MMscf, a factor of 10 higher than the factor shown in Table 11.1-13

Pollutant	Emission Factor[a] (lb/MMscf)	Emissions (lb/hr)	Emissions at Max Hours (T/yr)	Emissions at Proposed Max Hrs (T/yr)
PM (total)[c]	7.6	0.00E+00	0.00E+00	0.00E+00
PM-10 (total)[c]	7.6	0.00E+00	0.00E+00	0.00E+00
P.M.-2.5				
CO [b]	**8.40E+01**	0.00E+00	0.00E+00	0.00E+00
NOx [b]	100	0.00E+00	0.00E+00	0.00E+00
SO_2 [c]	250	0.00E+00	0.00E+00	0.00E+00
VOC [c]	5.5	0.00E+00	0.00E+00	0.00E+00
Lead [c]	5.00E-04	0.00E+00	0.00E+00	0.00E+00
HCl [e]				
Dioxins[e]				
-- No EFs for Natural Gas Fuel --				
Furans[e]				
-- No EFs for Natural Gas Fuel --				
Non-PAH HAPs[f]				
Acetaldehyde[e]				
Acrolein[e]				
Benzene[c1, e]	2.10E-03	0.00E+00	0.00E+00	0.00E+00
1,3-Butadiene[e]				
Ethylbenzene[e]				
Formaldehyde[e]	7.50E-02	0.00E+00	0.00E+00	0.00E+00
Hexane[e]	1.80E+00	0.00E+00	0.00E+00	0.00E+00
Isooctane				
Methyl Ethyl Ketone[e]				
Pentane[c1, e]	2.60E+00	0.00E+00	0.00E+00	0.00E+00
Propionaldehyde[e]				
Quinone[e]				
Methyl chloroform[e]				
Toluene[c1, e]	3.40E-03	0.00E+00	0.00E+00	0.00E+00
Xylene[e]				

Pollutant	Emission Factor[a] (lb/MMscf)	Emissions (lb/hr)	Emissions at Max Hours (T/yr)	Emissions at Proposed Max Hrs (T/yr)
PAH HAPs[f]				
2-Methylnaphthalene[c1]	2.40E-05	0.00E+00	0.00E+00	0.00E+00
3-Methylchloranthrene[c1, e]	1.80E-06	0.00E+00	0.00E+00	0.00E+00
Acenaphthene[c1]	1.80E-06	0.00E+00	0.00E+00	0.00E+00
Acenaphthylene[c1]	1.80E-06	0.00E+00	0.00E+00	0.00E+00
Anthracene[c1]	2.40E-06	0.00E+00	0.00E+00	0.00E+00
Benzo(a)anthracene[c1]	1.80E-06	0.00E+00	0.00E+00	0.00E+00
Benzo(a)pyrene[c1, e]	1.20E-06	0.00E+00	0.00E+00	0.00E+00
Benzo(b)fluoranthenec[1]	1.80E-06	0.00E+00	0.00E+00	0.00E+00
Benzo(e)pyrene				
Benzo(g,h,I)perylene[c1]	1.20E-06	0.00E+00	0.00E+00	0.00E+00
Benzo(k)fluoranthene[c1]	1.80E-06	0.00E+00	0.00E+00	0.00E+00
Chrysene[c1]	1.80E-06	0.00E+00	0.00E+00	0.00E+00
Dibenzo(a,h)anthracene[c1]	1.20E-06	0.00E+00	0.00E+00	0.00E+00
Dichlorobenzene[c1]	1.20E-03	0.00E+00	0.00E+00	0.00E+00
Fluoranthene[c1]	3.00E-06	0.00E+00	0.00E+00	0.00E+00
Fluorene[c1]	2.80E-06	0.00E+00	0.00E+00	0.00E+00
Indeno(1,2,3-cd)pyrene[c1]	1.80E-06	0.00E+00	0.00E+00	0.00E+00
Naphthalene[c1, e]	6.10E-04	0.00E+00	0.00E+00	0.00E+00
Perylene				
Phenanthrene[c1]	1.70E-05	0.00E+00	0.00E+00	0.00E+00
Pyrene[c1]	5.00E-06	0.00E+00	0.00E+00	0.00E+00
Non-HAPs Organic Compounds[f]				
Acetone[e]				
Benzaldehyde				
Butane[c1]	2.10E+00	0.00E+00	0.00E+00	0.00E+00
Butyraldehyde				
Crotonaldehyde[e]				
Ethylene				
Heptane				
Hexanal				
Isovaleraldehyde				
2-Methyl-1-pentene				
2-Methyl-2-butene				
3-Methylpentane				
1-Pentene				
n-Pentane				
Valeraldehyde				
Metals[g]				
Antimony[e]				
Arsenic[d,e]	2.00E-04	0.00E+00	0.00E+00	0.00E+00
Barium[d,e]	4.40E-03	0.00E+00	0.00E+00	0.00E+00
Beryllium[e]	1.20E-05	0.00E+00	0.00E+00	0.00E+00
Cadmium[d,e]	1.10E-03	0.00E+00	0.00E+00	0.00E+00
Chromium[d,e]	1.40E-03	0.00E+00	0.00E+00	0.00E+00
Cobalt[d,e]	8.40E-05	0.00E+00	0.00E+00	0.00E+00
Copper[d,e]	8.50E-04	0.00E+00	0.00E+00	0.00E+00
Hexavalent Chromium[e]				
Manganese[d,e]				
Mercury[d,e]				
Molybdenum[d,e]	1.10E-03	0.00E+00	0.00E+00	0.00E+00
Nickel[d,e]				
Phosphorus[e]				
Silver[e]				
Selenium[d,e]				
Thallium[e]				
Vanadium[d,e]	2.30E-03	0.00E+00	0.00E+00	0.00E+00
Zinc[d,e]				

a) Emission factors are from AP-42
b) AP-42, Table 1.4-1, Emission Factors for NOx and CO from Natural Gas Combustion, 7/98
c) AP-42, Table 1.4-2, Emission Factors for Criteria Pollutants and Greenhouse Gases from Natural Gas Combustion, 7/98
c1) AP-42, Table 1.4-3, Emission Factors for Speciated Organic Compounds from Natural Gas Combustion, 7/98
d) AP-42, Table 1.4-4, Emission Factors for Metals from Natural Gas Combustion, 7/98
e) IDAPA Toxic Air Pollutant

Facility: Gordon Paving Co., Inc.
4/18/2008 8:00 **Permit/Facility ID:** 0 xxx-xxxxx

Electrical Generator < 600 hp (447 kW) AP-42 Section 3.3 (diesel fueled)

Fuel Type Toggle =	0	
Fuel Consumption Rate	23.00	gal/hr
Fuel Heating Value	137,030	Btu/gal
Calculated MMBtu/hr	3.1517	MMBtu/hr
Proposed Max Hrs Operating	0	hrs/yr

Pollutant	Emission Factor[a] (lb/MMBtu)	Emissions (lb/hr)	Emissions at Max Hours (T/yr)	Emissions at Proposed Max Hrs (T/yr)
PM (total) [b]	0.31	0.000	0.00E+00	0.00E+00
PM-10 (total) [b]	0.31	0.000	0.00E+00	0.00E+00
P.M.-2.5				
CO [b]	0.95	0.000	0.00E+00	0.00E+00
NOx[b]	4.41	0.000	0.00E+00	0.00E+00
SO_2 [b] (total SOx presumed SO	250	0.000	0.00E+00	0.00E+00
VOC [b] (total TOC--> VOCs)	0.36	0.000	0.00E+00	0.00E+00
Lead				
HCl [e]				
Dioxins[e]				
2,3,7,8-TCDD				
Total TCDD				
1,2,3,7,8-PeCDD				
Total PeCDD				
1,2,3,4,7,8-HxCDD[c]				
1,2,3,6,7,8-HxCDD				
1,2,3,7,8,9-HxCDD[c]				
Total HxCDD				
1,2,3,4,6,7,8-Hp-CDD[c]				
Total $HpCDD_c$				
Octa CDD[c]				
Total PCDD[c]				
Furans[e]				
2,3,7,8-TCDF				
Total TCDF[c]				
1,2,3,7,8-PeCDF				
2,3,4,7,8-PeCDF				
Total PeCDF[c]				
1,2,3,4,7,8-HxCDF				
1,2,3,6,7,8-HxCDF				
2,3,4,6,7,8-HxCDF				
1,2,3,7,8,9-HxCDF				
Total HxCDF[c]				
1,2,3,4,6,7,8-HpCDF				
1,2,3,4,7,8,9-HpCDF				
Total HpCDF[c]				
Octa CDF[c]				
Total PCDF[c]				
Total PCDD/PCDF[c]				
Non-PAH HAPs				
Acetaldehyde[c]	7.67E-04	0.000	0.00E+00	0.00E+00
Acrolein[c]	9.25E-05	0.000	0.00E+00	0.00E+00
Benzene[c,e]	9.33E-04	0.000	0.00E+00	0.00E+00
1,3-Butadiene[c,e]	3.91E-05	0.000	0.00E+00	0.00E+00
Ethylbenzene[e]				
Formaldehyde[c,e]	1.18E-03	0.000	0.00E+00	0.00E+00
Hexane[e]				
Isooctane				
Methyl Ethyl Ketone[e]				
Pentane[e]				
Propionaldehyde[e]				
Quinone[e]				
Methyl chloroform[e]				
Toluene[c,e]	4.09E-04	0.000	0.00E+00	0.00E+00
Xylene[c,e]	2.85E-04	0.000	0.00E+00	0.00E+00

Pollutant	Emission Factor[a] (lb/MMBtu)	Emissions (lb/hr)	Emissions at Max Hours (T/yr)	Emissions at Proposed Max Hrs (T/yr)
PAH HAPs				
2-Methylnaphthalene				
3-Methylchloranthrene[e]				
Acenaphthene[c]	1.42E-06	0.00E+00	0.00E+00	0.00E+00
Acenaphthylene[c]	5.06E-06	0.00E+00	0.00E+00	0.00E+00
Anthracene[c]	1.87E-06	0.00E+00	0.00E+00	0.00E+00
Benzo(a)anthracene[c]	1.68E-06	0.00E+00	0.00E+00	0.00E+00
Benzo(a)pyrene[c,e]	1.88E-07	0.00E+00	0.00E+00	0.00E+00
Benzo(b)fluoranthene[c]	9.91E-08	0.00E+00	0.00E+00	0.00E+00
Benzo(e)pyrene				
Benzo(g,h,I)perylene[c]	4.89E-07	0.00E+00	0.00E+00	0.00E+00
Benzo(k)fluoranthene[c]	1.55E-07	0.00E+00	0.00E+00	0.00E+00
Chrysene[c]	3.53E-07	0.00E+00	0.00E+00	0.00E+00
Dibenzo(a,h)anthracene[c]	5.83E-07	0.00E+00	0.00E+00	0.00E+00
Dichlorobenzene				
Fluoranthene[c]	7.61E-06	0.00E+00	0.00E+00	0.00E+00
Fluorene[c]	2.92E-05	0.00E+00	0.00E+00	0.00E+00
Indeno(1,2,3-cd)pyrene[c]	3.75E-07	0.00E+00	0.00E+00	0.00E+00
Naphthalene[c,e]	8.48E-05	0.00E+00	0.00E+00	0.00E+00
Perylene				
Phenanthrene[c]	2.94E-05	0.00E+00	0.00E+00	0.00E+00
Pyrene[c]	4.78E-06	0.00E+00	0.00E+00	0.00E+00
Non-HAP Organic Compounds				
Acetone[e]				
Benzaldehyde				
Butane				
Butyraldehyde				
Crotonaldehyde[e]				
Ethylene				
Heptane				
Hexanal				
Isovaleraldehyde				
2-Methyl-1-pentene				
2-Methyl-2-butene				
3-Methylpentane				
1-Pentene				
n-Pentane				
Valeraldehyde				
Metals				
Antimony[e]				
Arsenic[e]				
Barium[e]				
Beryllium[e]				
Cadmium[e]				
Chromium[e]				
Cobalt[e]				
Copper[e]				
Hexavalent Chromium[e]				
Manganese[e]				
Mercury[e]				
Molybdenum[e]				
Nickel[e]				
Phosphorus[e]				
Silver[e]				
Selenium[e]				
Thallium[e]				
Vanadium[e]				
Zinc[e]				

a) Emission factors are from AP-42
b) AP-42, Table 3.3-1, Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines, 10/96
c) AP-42, Table 3.3-2, Speciated Organic Compoun Emission Factors for Uncontrolled Diesel Engine, Emission Factor Rating E, 10/96
d) (reserved)
e) IDAPA Toxic Air Pollutant

Facility: Gordon Paving Co., Inc.
4/18/2008 8:00 **Permit/Facility ID:** 0 xxx-xxxxx

Electrical Generator > 600 hp (447 kW) AP-42 Section 3.4 (diesel fueled, uncontrolled)

Fuel Type Toggle = 0
Fuel Consumption Rate 0.00 gal/hr Max Sulfur % = 0
Fuel Heating Value 0 Btu/gal
Calculated MMBtu/hr 0.0000 MMBtu/hr
Proposed Max Hrs Operating 0 hrs/yr

Pollutant	Emission Factor[a] (lb/MMBtu)	Emissions (lb/hr)	Emissions at Max Hours (T/yr)	Emissions at Proposed Max Hrs (T/yr)
PM[b]	0.1	0.000	0.00E+00	0.00E+00
PM-10 (total)[d]	0.0573	0.000	0.00E+00	0.00E+00
P.M.-2.5		0.000		
CO[b]	0.85	0.000	0.00E+00	0.00E+00
NOx[b]	3.2	0.000	0.00E+00	0.00E+00
SO_2[b] (total SOx presumed SO_2	250	0.000	0.00E+00	0.00E+00
VOC[b] (total TOC--> VOCs)	0.09	0.000	0.00E+00	0.00E+00
Lead				
HCl[e]				
Dioxins[e]				
2,3,7,8-TCDD				
Total TCDD				
1,2,3,7,8-PeCDD				
Total PeCDD				
1,2,3,4,7,8-HxCDD[c]				
1,2,3,6,7,8-HxCDD				
1,2,3,7,8,9-HxCDD[c]				
Total HxCDD				
1,2,3,4,6,7,8-Hp-CDD[c]				
Total $HpCDD_c$				
Octa CDD[c]				
Total PCDD[c]				
Furans[e]				
2,3,7,8-TCDF				
Total TCDF[c]				
1,2,3,7,8-PeCDF				
2,3,4,7,8-PeCDF				
Total PeCDF[c]				
1,2,3,4,7,8-HxCDF				
1,2,3,6,7,8-HxCDF				
2,3,4,6,7,8-HxCDF				
1,2,3,7,8,9-HxCDF				
Total HxCDF[c]				
1,2,3,4,6,7,8-HpCDF				
1,2,3,4,7,8,9-HpCDF				
Total HpCDF[c]				
Octa CDF[c]				
Total PCDF[c]				
Total PCDD/PCDF[c]				
Non-PAH HAPs				
Acetaldehyde[c]	2.52E-05	0.000	0.00E+00	0.00E+00
Acrolein[c]	7.88E-06	0.000	0.00E+00	0.00E+00
Benzene[c,e]	7.76E-04	0.000	0.00E+00	0.00E+00
1,3-Butadiene[c,e]				
Ethylbenzene[e]				
Formaldehyde[c,e]	7.89E-05	0.000	0.00E+00	0.00E+00
Hexane[e]				
Isooctane				
Methyl Ethyl Ketone[e]				
Pentane[e]				
Propionaldehyde[e]				
Quinone[e]				
Methyl chloroform[e]				
Toluene[c,e]	2.81E-04	0.000	0.00E+00	0.00E+00
Xylene[c,e]	1.93E-04	0.000	0.00E+00	0.00E+00

Pollutant	Emission Factor[a] (lb/MMBtu)	Emissions (lb/hr)	Emissions at Max Hours (T/yr)	Emissions at Proposed Max Hrs (T/yr)
PAH HAPs				
2-Methylnaphthalene				
3-Methylchloranthrene[e]				
Acenaphthene[c1]	4.68E-06	0.00E+00	0.00E+00	0.00E+00
Acenaphthylene[c1]	9.23E-06	0.00E+00	0.00E+00	0.00E+00
Anthracene[c1]	1.23E-06	0.00E+00	0.00E+00	0.00E+00
Benzo(a)anthracene[c1]	6.22E-07	0.00E+00	0.00E+00	0.00E+00
Benzo(a)pyrene[c1,e]	2.57E-07	0.00E+00	0.00E+00	0.00E+00
Benzo(b)fluoranthene[c1]	1.11E-06	0.00E+00	0.00E+00	0.00E+00
Benzo(e)pyrene				
Benzo(g,h,I)perylene[c1]	5.56E-07	0.00E+00	0.00E+00	0.00E+00
Benzo(k)fluoranthene[c1]	2.18E-07	0.00E+00	0.00E+00	0.00E+00
Chrysene[c1]	1.53E-06	0.00E+00	0.00E+00	0.00E+00
Dibenzo(a,h)anthracene[c]	3.46E-07	0.00E+00	0.00E+00	0.00E+00
Dichlorobenzene				
Fluoranthene[c1]	4.03E-06	0.00E+00	0.00E+00	0.00E+00
Fluorene[c1]	1.28E-05	0.00E+00	0.00E+00	0.00E+00
Indeno(1,2,3-cd)pyrene[c1]	4.14E-07	0.00E+00	0.00E+00	0.00E+00
Naphthalene[c1,e]	1.30E-94	0.00E+00	0.00E+00	0.00E+00
Perylene				
Phenanthrene[c1]	4.08E-05	0.00E+00	0.00E+00	0.00E+00
Pyrene[c1]	3.71E-06	0.00E+00	0.00E+00	0.00E+00
Non-HAP Organic Compounds				
Acetone[e]				
Benzaldehyde				
Butane				
Butyraldehyde				
Crotonaldehyde[e]				
Ethylene				
Heptane				
Hexanal				
Isovaleraldehyde				
2-Methyl-1-pentene				
2-Methyl-2-butene				
3-Methylpentane				
1-Pentene				
n-Pentane				
Valeraldehyde				
Metals				
Antimony[e]				
Arsenic[e]				
Barium[e]				
Beryllium[e]				
Cadmium[e]				
Chromium[e]				
Cobalt[e]				
Copper[e]				
Hexavalent Chromium[e]				
Manganese[e]				
Mercury[e]				
Molybdenum[e]				
Nickel[e]				
Phosphorus[e]				
Silver[e]				
Selenium[e]				
Thallium[e]				
Vanadium[e]				
Zinc[e]				

a) Emission factors are from AP-42
b) AP-42, Table 3.4-1, Gaseous Emission Factors for Large Stationary Diesel and All Stationary Dual Fuel Engines, 10/96
c) AP-42, Table 3.4-3, Speciated Organic Compound Emission Factors for Large Uncontrolled Stationary Diesel Engines, Emission Factor Rating E, 10/96
c1) AP-42, Table 3.4-4, PAH Emission Factors for Large Uncontrolled Stationary Diesel Engines, Emission Factor Rating E, 10/96
d) AP-42, Table 3.4-2, Particulate and Particle-Sizing Emission Factors for Large Uncontrolled Stationary Diesel Engines, Emission Factor Rating E, 10/96
e) IDAPA Toxic Air Pollutant

Facility: Gordon Paving Co., Inc.
4/18/2008 8:00 **Permit/Facility ID:** 0 xxx-xxxxx

Load-out, Silo Filling, and Tank Storage Operations AP-42 Section 11.1

Emissions Toggle = 1
Hourly Throughput 225 T/hr
Annual Hours Operating 1,200 hrs/yr
Max Annual Throughput 270,000 Tons/yr Theoretical Max HMA at Max Hours
Max Annual Throughput 270,000 Tons/yr (Proposed HMA Throughput Limit)

Pollutant	Emission Factor[a] (lb/ton)	Emissions (lb/hr)	Emissions at Max Hours (T/yr)	Emissions at Max Throughput (T/yr)
PM (total) [b]	5.22E-04	0.1174	0.0705	0.0705
PM-10 (total) [b]	5.22E-04	0.1174	0.0705	0.0705
P.M.-2.5 [b]	5.22E-04	0.1174	0.0705	0.0705
CO [b]	1.35E-03	0.3036	0.1821	0.1821
NOx				
SO_2	250			
VOC [d,g]	1.61E-04	3.62E-02	2.17E-02	2.17E-02
Lead				
HCl [d,e]	No Data			
Dioxins[e]				
2,3,7,8-TCDD				
Total TCDD				
1,2,3,7,8-PeCDD				
Total PeCDD				
1,2,3,4,7,8-HxCDD				
1,2,3,6,7,8-HxCDD				
1,2,3,7,8,9-HxCDD				
Total HxCDD				
1,2,3,4,6,7,8-Hp-CDD				
Total HpCDD				
Octa CDD				
Total PCDD[h]				
Furans[e]				
2,3,7,8-TCDF				
Total TCDF				
1,2,3,7,8-PeCDF				
2,3,4,7,8-PeCDF				
Total PeCDF				
1,2,3,4,7,8-HxCDF				
1,2,3,6,7,8-HxCDF				
2,3,4,6,7,8-HxCDF				
1,2,3,7,8,9-HxCDF				
Total HxCDF				
1,2,3,4,6,7,8-HpCDF				
1,2,3,4,7,8,9-HpCDF				
Total HpCDF				
Octa CDF				
Total PCDF[h]				
Total PCDD/PCDF[h]				
Non-PAH HAPs				
Acetaldehyde[e]				
Acrolein[e]				
Benzene[e]	6.06E-06	1.36E-03	8.18E-04	8.18E-04
1,3-Butadiene[e]				
Ethylbenzene[e]	3.57E-05	8.03E-03	4.82E-03	4.82E-03
Formaldehyde[e]	8.77E-05	1.97E-02	1.18E-02	1.18E-02
Hexane[e]	1.84E-05	4.15E-03	2.49E-03	2.49E-03
Isooctane	1.13E-07	2.53E-05	1.52E-05	1.52E-05
Methyl Ethyl Ketone[e]	6.79E-06	1.53E-03	9.17E-04	9.17E-04
Pentane[e]				
Propionaldehyde[e]				
Quinone[e]				
Methyl chloroform[e]		0.00E+00	0.00E+00	0.00E+00
Toluene[e]	1.63E-05	3.67E-03	2.20E-03	2.20E-03
Xylene[e]	6.10E-05	1.37E-02	8.24E-03	8.24E-03

Pollutant	Emission Factor[a] (lb/ton)	Emissions (lb/hr)	Emissions at Max Hours (T/yr)	Emissions at Max Throughput (T/yr)
PAH HAPs[f]				
2-Methylnaphthalene	2.15E-05	4.84E-03	2.90E-03	2.90E-03
3-Methylchloranthrene[e]				
Acenaphthene	2.08E-06	4.68E-04	2.81E-04	2.81E-04
Acenaphthylene	1.31E-07	2.95E-05	1.77E-05	1.77E-05
Anthracene	5.69E-07	1.28E-04	7.68E-05	7.68E-05
Benzo(a)anthracene	2.07E-07	4.66E-05	2.79E-05	2.79E-05
Benzo(a)pyrene[e]	7.84E-09	1.76E-06	1.06E-06	1.06E-06
Benzo(b)fluoranthene	2.59E-08	5.83E-06	3.50E-06	3.50E-06
Benzo(e)pyrene	5.07E-08	1.14E-05	6.85E-06	6.85E-06
Benzo(g,h,l)perylene	6.48E-09	1.46E-06	8.75E-07	8.75E-07
Benzo(k)fluoranthene	7.50E-09	1.69E-06	1.01E-06	1.01E-06
Chrysene	8.84E-07	1.99E-04	1.19E-04	1.19E-04
Dibenzo(a,h)anthracene	1.26E-09	2.84E-07	1.70E-07	1.70E-07
Dichlorobenzene				
Fluoranthene	5.51E-07	1.24E-04	7.44E-05	7.44E-05
Fluorene	5.19E-06	1.17E-03	7.01E-04	7.01E-04
Indeno(1,2,3-cd)pyrene	1.60E-09	3.61E-07	2.16E-07	2.16E-07
Naphthalene[e]	8.88E-06	2.00E-03	1.20E-03	1.20E-03
Perylene	1.51E-07	3.40E-05	2.04E-05	2.04E-05
Phenanthrene	7.33E-06	1.65E-03	9.90E-04	9.90E-04
Pyrene	1.63E-06	3.66E-04	2.20E-04	2.20E-04
Non-HAP Organic Compounds				
Acetone[e]	8.65E-06	1.95E-03	1.17E-03	1.17E-03
Benzaldehyde				
Butane				
Butyraldehyde				
Crotonaldehyde[e]				
Ethylene	1.64E-04	3.68E-02	2.21E-02	2.21E-02
Heptane				
Hexanal				
Isovaleraldehyde				
2-Methyl-1-pentene				
2-Methyl-2-butene				
3-Methylpentane				
1-Pentene				
n-Pentane				
Valeraldehyde				
Metals				
Antimony[e]				
Arsenic[e]				
Barium[e]				
Beryllium[e]				
Cadmium[e]				
Chromium[e]				
Cobalt[e]				
Copper[e]				
Hexavalent Chromium[e]				
Manganese[e]				
Mercury[e]				
Molybdenum[e]				
Nickel[e]				
Phosphorus[e]				
Silver[e]				
Selenium[e]				
Thallium[e]				
Vanadium[e]				
Zinc[e]				

a) Emission factors are from AP-42 11.1, Hot Mix Asphalt Plants, 3/04
b) AP-42, Table 11.1-14, Predictive Emission Factor Equations for Load-Out and Silo Filling Operations Defaults: (-V) = 0.5 T (°F) = 325

Total PM EF = $0.000181+0.00141(-V)e^{((0.0251)(T+460)-20.43)} + 000332+ 0.00105(-V)e^{((0.0251)(T+460)-20.43)}$ = 5.219E-04 5.859E-04 (split addends)

Organic PM EF = $0.00141(-V)e^{((0.0251)(T+460)-20.43)} + 0.00105(-V)e^{((0.0251)(T+460)-20.43)}$ = 3.409E-04 2.539E-04 (split addends)

TOC PM EF = $0.0172(-V)e^{((0.0251)(T+460)-20.43)} + 0.0504(-V)e^{((0.0251)(T+460)-20.43)}$ = 4.159E-03 1.219E-02 (split addends)

CO PM EF = $0.00558(-V)e^{((0.0251)(T+460)-20.43)} + 0.00488(-V)e^{((0.0251)(T+460)-20.43)}$ = 1.349E-03 1.180E-03 (split addends)

e) IDAPA Toxic Air Pollutant
f) AP-42, Table 11.1-15, Speciation Profiles for Load-out, Silo Filling, & Asphalt Storage--Organic Particulate-Based Compounds, 3/04 (EF=Spec% * Organic PM EF)
g) AP-42, Table 11.1-16, Speciation Profiles for Load-out, Silo Filling, &Asphalt Storage--Organic Volatile-Based Compounds, 3/04, (EF=Spec% * TOC PM EF)

Facility: Gordon Paving Co., Inc.
4/18/2008 8:00 **Permit/Facility ID:** **0 xxx-xxxxx**

Load-out, Silo Filling, and Tank Storage Operations AP-42 Section 11.1, Page 2

Fuel Type Toggle =	0	
Hourly Throughput	225	T/hr
Annual Hours Operating	1,200	hrs/yr
Max Annual Throughput	270,000	Tons/yr Theoretical Max HMA at Max Hours
Max Annual Throughput	270,000	Tons/yr (Proposed HMA Throughput Limit)

Pollutant	Emission Factor[a] (lb/ton)	Emissions (lb/hr)	Emissions at Max Hours (T/yr)	Emissions at Max Throughput (T/yr)
non-PAH HAPs[a]				
Bromomethane[e]	6.03E-07	1.36E-04	8.14E-05	8.14E-05
2-Butanone (see Methyl Ethyl Ketone)				
Carbon disulfide[e]	1.21E-06	2.71E-04	1.63E-04	1.63E-04
Chloroethane (Ethyl chloride[e])	1.75E-07	3.94E-05	2.36E-05	2.36E-05
Chloromethane (Methyl chloride[e])	1.58E-06	3.56E-04	2.13E-04	2.13E-04
Cumene[e]	4.57E-06	1.03E-03	6.18E-04	6.18E-04
n-Hexane (see Hexane[e])				
Methylene chloride (Dichloromethane[e])	1.12E-08	2.53E-06	1.52E-06	1.52E-06
MTBE	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Styrene[e]	5.28E-07	1.19E-04	7.13E-05	7.13E-05
Tetrachloroethene (Tetrachloroethylene[e])	3.20E-07	7.21E-05	4.32E-05	4.32E-05
1,1,1-Trichloroethane (Methyl chloroform[e])	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Trichloroethene (Trichloroethylene[e])	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Trichlorofluoromethane	5.41E-08	1.22E-05	7.30E-06	7.30E-06
m-/p-Xylene[e] (added into Xylene[e])	2.54E-05	5.71E-03	3.42E-03	3.42E-03
o-Xylene[e] (added into Xylene[e])	3.56E-05	8.02E-03	4.81E-03	4.81E-03
Phenol[c,f]	4.02E-06	9.05E-04	5.43E-04	5.43E-04
Non-HAP Organic Compounds				
Methane	1.35E-03	3.04E-01	1.82E-01	1.82E-01

EMISSIONS SPECIFICATIONS
ADM MM225 MILEMAKER PORTABLE ASPHALT PLANT

ASPHALT PLANT EMMISSIONS

RATE:	225 TPH
MOISTURE:	5.0 %
DRIER FUEL CONSUMPTION:	427.5 Gal/Hr.
TOTAL EXHAUST FLOW:	45,000 ACFM
INLET AIR TEMPERATURE:	300 DEG. F.

OPERATING DATA

HOURS:	10 HRS.
DAYS:	5 DAYS
WEEKS:	26 WEEKS
YEAR:	1,300 HRS/YR

EMMISSION REQUIREMENTS

PARTICULATE (CFR 40):	0.04 GR./DSCF
AIR CORRECTED TO STD. CONDITIONS:	31,382 SCFM
MAXIMUM PARTICULATE EMMISSION:	10.76 LB/HR

STACK PARAMETERS

HEIGHT:	22.3 FEET
STACK DEPTH:	47.5 INCHES
STACK WIDTH:	33 INCHES
HYDRAULIC DIAMETER:	3.25 FEET
VELOCITY:	90.67 FT/SEC

DRIER EMMISSION FACTOR

PARTICULATE EMMISSION FROM PM (REF. AP-42):	28 LB/TON
PM^{10} (REF. AP-42):	6.5 LB/TON
UNCONTROLLED EMMISSIONS:	6,300.0 LB/HR

EMISSION SHEET (#2 OIL)

EMMISSIONS FOR OIL FIRED DRUM MIX PLANT

SULPHUR DIOXIDE:	0.011 LBS/TON
NITROGEN OXIDE:	0.055 LBS/TON
CARBON MONOXIDE:	0.13 LBS/TON
HYDROCARBONS(VOC's):	0.044 LBS/TON

CALCULATED EMMISSIONS PER HOUR

TOTAL PARTICULATE:	6,300.0 LB/HR
TOTAL NON-PARTICULATE	
SULPHUR DIOXIDE:	2.48 LB/HR
NITROGEN OXIDE:	12.38 LB/HR
CARBON MONOXIDE:	29.25 LB/HR
HYDROCARBONS(VOC's):	9.90 LB/HR

CONTROL UNIT

PARTICULATE EMMISSION CONTROLLED

PM:	31.50 LB/HR
PM^{10}:	7.31 LB/HR
BAGHOUSE EFFICIENCY:	99.50 %

EMMISSIONS PER YEAR

TOTAL PARTICULATE:	less than	4.83 TONS/YR **
TOTAL PM^{10}:	less than	3.36 TONS/YR **
TOTAL NON-PARTICULATE		
SULPHUR DIOXIDE:	less than	1.61 TONS/YR
NITROGEN OXIDE:	less than	8.04 TONS/YR
CARBON MONOXIDE:	less than	19.01 TONS/YR
HYDROCARBONS(VOC's):	less than	6.44 TONS/YR

**PM and PM10 emission factor of 0.033 and 0.023, respectively from AP-42 Fabric Filter as control device.

Asphalt Drum Mixers, Inc.

1 ADM Parkway, Huntertown, IN 46748 USA
260-637-5729 • Fax 260-637-3164
sales@admasphaltplants.com
www.admasphaltplants.com

Air Quality Guarantee

Asphalt Drum Mixers, Inc. (ADM) guarantees that the equipment supplied will meet the federal requirement of 0.04 gr/dscf for particulate matter.

While ADM does not do the actual testing, we will provide a factory trained service technician to the job site prior to testing at no charge of the purchaser. The service technician will check over the plant the day before testing and also be present to observe the actual test. A minimum of two weeks notice must be given to ADM prior to testing. Testing must be performed within 60 days of start-up.

If equipment fails to meet the federal requirement of less than 0.04 gr/dscf of particulate matter, ADM will pay for any subsequent testing costs until such approval is met. Furthermore, ADM will consume any costs pertaining to equipment modifications that may be required to bring the particulate emissions within compliance.

Dispersion Modeling Protocol
Gordon Paving Company

Introduction & Purpose

Gordon Paving Company has been engaged in the asphalt paving, seal-coating, and sand & gravel business for many years with several locations in Idaho and other States. The company is in the process of constructing a new Asphalt plant in Twin Falls, Idaho. The purpose of this document is to describe modeling approach as per requirement of a 15-day pre-permit construction application as well as to satisfy the requirements of IDAPA 58.01.01.213 Rules.

The following sections describe the selected site for the new plant, plant description, and operational parameters, modeling approach, type of modeling and inputs, air pollutants, sources and emission rates.

Site Description & Characteristics

The subject property is located at 1310 Addison Avenue West, Twin Falls, Idaho with the legal description of:
Township 10 South, Range 17 East, Boise Meridian, Twin Falls County, Idaho
Section 7: A portion of the SE1/4 Sw1/4 more particularly described as follows: BEGINNING at the S1/4 corner of Section7; THENCE North 1° 15'51" East 280.4 feet along the easterly boundary of the SE1/4SW1/4 to the TRUE POINT OF BEGINNING ; THENCE North 1° 15'51" EAST 936 feet along said easterly boundary: THENCE North 88°57'18" West 791 feet; THENCE South 1° 15'51" West 936 feet; THENCE South 88°57'18" East 791 feet to the TRUE POINT OF BEGINNING.

The subject property and its vicinity are located within Twin Falls County and are zoned as industrial. The site is located north of State Highway 30 and west to southwest of Rock Creek Canyon. Currently the main portion of the subject property consists of land and a gravel pit which is used for the normal day to day business. The southern adjoining properties are farmland with residential quarters and are separated by Highway 30 from the subject property. The western adjoining properties are a mixture of residential and farmlands, some of which are separated by the 2700 Road from the site. Eastern adjoining property is the Idaho Sand & Gravel Company.

The property is generally flat and gently slopes in a northeastern-eastern direction. The source of water is a private well which is located in the southern portion of the subject property between the office and the shop. The flow of the groundwater at the site appears consistent with the reported northeasterly regional groundwater flow. However, due to the existence of numerous private wells in the area as well as the influence of the canals, site-specific groundwater flow is likely to change throughout the seasons.

The US Soil Conservation Service has classified the dominant native surface soil within the boundary of the subject property as Portneuef. The texture of the soil is silt loam and

has a moderate infiltration rate. The drainage of this type of soil is classified as well drained with intermediate water holding capacity. The Potneuef soil has high corrosion potential toward uncoated steel. The depth of the surface soil to the bedrock is more than sixty inches. The surface soil is followed by un-weathered bedrock and fractured Basalt. Appendix (1) of this document represents Vicinity Map, Property Map, and Building Locations.

Asphalt Plant Description & Operational Parameters

The plant is a portable hot mix asphalt plant which is manufactured by ADM, Inc. and the specific model is known as Milemaker Series, Model MM225. The components of the plant includes: Cold Feed Bins, Dry Drum, Mixing Drum, Portable Silo, Drag Slat Conveyer, Recycled Conveyors, Portable Bag House, Recycled Asphalt Bins and Control Room. A scaled map representing of the lay out of the new plant is represented in Appendix (1) of this document.

Idaho Department of Environmental Quality (IDEQ) worksheet (Current PTC Estimate) is used to provide operational parameters for the new asphalt plant and is included in Appendix (2) of this document.

Modeling Approach & Type of Modeling

A dispersion model, Screen3 Version dated 96043, is used to provide appropriate pre construction pollution impact(s) for the new plant. This model is selected due to the fact that would provide most conservative impact estimates or the worse scenarios.
The information regarding sources, pollutants, individual emission rates are tabulated in Table (1).

Topography map and elevation data of the site for the new plant is used to determine the type of terrain and is as simple terrain. Full meteorological data as suggested by the Screen3 is applied to the model. Specific information pertaining to the plant and are known as emission release parameters (stack height, stack diameter, and exit gas velocity and exit gas temperature) are obtained from the manufacturer of the plant and are found in Appendix (2) of this protocol and are summarized as follows:

1. Stack Height: 6.797 meter
2. Stack Diameter: 0.9906 meter
3. Exit Velocity: 27.636 meter
4. Gas Exit Temperature: 421.8 Kelvin

Calculations to obtain emission rates for various pollutants are based on the current PTC Estimates of the output of IDEQ worksheet using maximum emission rates of Ton/year and converting them to gram/second as the Screen3 model requires.

A primarily execution of the model is performed considering different emission sources. The print out of these executions from the model enclosed in Appendix (2) of this document. It should be pointed out that the data from manufacturing does not necessarily coincide with what the plant will be operating, for example hours of operation will be different than what the manufacturer cites.
Calculations to consider building wash down indicate that no building should be considered. Model is performed to calculate a distance from the setback (150 meter) out to 1000 meters. One hour concentration of the pollutant is multiplied by the persistence factors provided by IDEQ.
Background concentration specific to the location of the plant as provided by IDEQ is added to the total impact levels for the appropriate pollutants.

Idaho Air Rules Sections 585 & 586 air toxic standards will be used for comparing the levels of the air toxics values from the model.

Table (1)

Source*	**Source type**	**Emission Rate, PM10, G/S**	**Emission Rate, SO2, G/S**	**Emission Rate, NOx, G/S**	**Emission Rate, CO, G/S**
Asphalt Dryer Stack	Point	0.099	0.25	0.237	0.56
Asphalt (Oil) Tank Heater	Point	0.0005	0.018	0.005	0.00138
Asphalt Silo Filling, Asphalt Load Out & Tank Storage	Volume	0.00225	0.0000	0.0000	0.0058
Fugitives from Aggregates	Volume	1.115	N/A	N/A	N/A
Fugitives from Conveyors (five convey	Volume	ND	N/A	N/A	N/A

* Generator is not considered a source since it is not used in the new plant
** The value is taken into the account that a 75% control measure is taken.
*** N/A: Not Applicable, ND: Not Determined

The results of this preliminary modeling are tabulated in Table (2) without considering fugitives from conveyor or aggregates. The total concentrations for each pollutant are multiplied by their corresponding persistence factors to obtain their corresponding impact specific to the averaging period. Background concentration for each pollutant is added to the total impact. IDEQ impact analysis from (MI1) is used to provide these results and is enclosed in this report.

Table (2)

Source*	**PM10 Max. 1-hr. conc., ug/cubic M**	**SO2, Max. 1-hr. conc., ug/cubic M**	**NOx, Max. 1-hr. conc., ug/cubic M**	**CO, Max. 1-hr. conc., ug/cubic M**
Asphalt Dryer Stack	2.23 @280 M	5.664 @250 M	5.370 @ 280 M	12.69 @280 M
Asphalt (Oil) Tank Heater	0.310 @150 M	11.18 @150 M	3.104 @ 150 M	0.8568 @150 M
Asphalt Silo Filling, Asphalt Load Out & Tank Storage	8.432 @150 M	3.1004 @150 M	0.0000	21.73 @150 M
Total	10.972	16.844	8.474	35.2768

STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

1410 NORTH HILTON, BOISE, ID 83706 · (208) 373-0502

C. L. "BUTCH" OTTER, GOVERNOR
TONI HARDESTY, DIRECTOR

March 29, 2008

Saiid Dabestani
Enviro-Mont Environmental Consulting & Services
Twin Falls, Idaho

RE: Modeling Protocol for the Gordon Paving new Asphalt Plant, to be Initially Located near Twin Falls, Idaho

Saiid:

DEQ received your dispersion modeling protocol on March 24, 2008. The modeling protocol was submitted on behalf of Gordon Paving Company (Gordon Paving). The modeling protocol proposes methods and data for use in the ambient impact analyses of a Permit to Construct application for a new portable asphalt plant, initially estimated to be located near Twin Falls, Idaho.

The modeling protocol has been reviewed and DEQ has the following comments:

- Comment 1: The application should provide documentation and justification for stack parameters used in the modeling analyses, clearly showing how stack gas temperatures and flow rates were estimated. In most instances, applicants should use typical parameters, not maximum temperatures and flow rates. Although much of this information was submitted in the protocol, it must be resubmitted in the application and certified by the applicant.

- Comment 2: DEQ atmospheric dispersion modeling staff will perform refined air impact analyses for Gordon Paving using the information submitted in the application. The DEQ analyses will be used to establish minimum setback distances (closest allowable distance between an emissions point and the nearest point of public access – assumed to be the facility's property boundary).

- Comment 3: Preliminary analyses have indicated the minimum setback distance will be 150 meters. Although DEQ is reasonably confident this distance will not increase, DEQ cannot not provide assurance, before final analyses are complete, that the value will not increase. Any site construction activities conducted at the site prior to receiving the permit are at the applicant's risk.

- Comment 4: Because impacts of any adjacent facilities were not specifically modeled, the plant will be restricted from locating within 1000 feet of another HMA, concrete batch plant, and/or a rock crushing plant.

- Comment 5: Provide a copy of this protocol approval notification with the submitted application.

DEQ's modeling staff considers the submitted dispersion modeling protocol, with resolution of the additional items noted above, to be approved. It should be noted, however, that the approval of this modeling protocol is not meant to imply approval of a completed dispersion modeling analysis. Please refer to the *State of Idaho Air Quality Modeling Guideline*, which is available on the Internet at http://www.deq.state.id.us/air/permits_forms/permitting/modeling_guideline.pdf, for further guidance.

If you have any further questions or comments, please contact me at (208) 373-0112.

Sincerely,

Kevin Schilling
Stationary Source Air Modeling Coordinator
Idaho Department of Environmental Quality
208 373-0112

Appendix (4)

Legal Notice of Informational Meeting, Times-News

Affidavit of Publication

STATE OF IDAHO)
COUNTY OF TWIN FALLS) SS.

I, Ruby Aufderheide, being first duly sworn upon oath, depose and say that I am Legal Clerk of the TIMES-NEWS,published daily at, Twins Falls, Idaho, and do solemnly swear that a copy of the notice of advertisement, as per clipping attached, was published in the regular and entire issue of said newspaper, and not in any supplement thereof, for one ~~consecutive~~ publication, commencing with the issue dated 1st day of April, 2008 and ending with the issue dated 1st day of April, 2008

And I do further certify that said newspaper is a consolidation, effective February 16, 1942, of the Idaho Evening Times, published theretofore daily except Sunday, and the Twin Falls News, published theretofore daily except Monday, both of which newspapers prior to consolidation had been published under said names in said city and county continuously and uninterruptedly during a period of more than twelve consecutive months, and said TIMES-NEWS, since such consolidation, has been published as a daily newspaper except Saturday, until July 31, 1978, at which time said newspaper began daily publication under said name in said city and county continuously and uninterrupted.

And I further certify that pursuant to Section 60-108 Idaho Code, Thursday of each week has been designated as the day on which legal notice by law or by order of any court of competent jurisdiction within the state of Idaho to be issued thereof Thursday is announced as the day on which said legal will be published.

STATE OF IDAHO
COUNTY OF TWIN FALLS

On this 1st day of April, 2008, before me,

a Notary Public, personally appeared Ruby Aufderheide,
known or identified to me to be the person whose name subscribed to the within instrument, and being by me first duly sworn, declared that the statements therein are true, and acknowledged to me that he executed the same.

Linda Capps McGuire
Notary Public for Idaho
Residing at Twin Falls, Idaho.

My commision expires: 5-19-09

LINDA CAPPS-McGUIRE
NOTARY PUBLIC
STATE OF IDAHO

LEGAL NOTICE

Gordon Paving Co., Inc. has applied for an air quality permit to construct and operate a portable hot mix asphalt plant at the location of Part of Section 7 Township 10 South, Range 17 E, in Twin Falls. An informational meeting will be held Friday April 11, 2008 at 7:00 p.m in the office of Northwest Sand & Gravel located at 1310 Addison Ave. West in Twin Falls, ID.

PUBLISH: April 1, 2008

9

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