



SIP AIR PERMIT APPLICATION

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Date Received:

SEP 25 2018

Application No.

26734

Air Protection
Branch

FORM 1.00: GENERAL INFORMATION

1. Facility Information

Facility Name: Ballard Contractors

AIRS No. (if known): 04-13- -

Facility Location: Street: 192-198 E Warrenton Road

City: Warrenton Georgia Zip: 30828 County: Warren

Is this facility a "small business" as defined in the instructions? Yes: No:

2. Facility Coordinates

Latitude: 33 ° 24' 23" NORTH Longitude: 82 ° 38' 30" WEST

UTM Coordinates: 347.338 EAST 3697.577 NORTH ZONE 17S

3. Facility Owner

Name of Owner: Ballard Contractors

Owner Address Street: 12268 Lavender Road

City: Moundville State: Alabama Zip: 35474

4. Permitting Contact and Mailing Address

Contact Person: Lauren Corbett Title: Project Manager

Telephone No.: (205) 333-9200 Ext. _____ Fax No.: (205) 333-0595

Email Address: lauren@ballardcontractors.com

Mailing Address: Same as: Facility Location: Owner Address: Other:

If Other: Street Address: N/A

City: _____ State: _____ Zip: _____

5. Authorized Official

Name: Michael Ballard Title: President

Address of Official Street: 12268 Lavender Road

City: Moundville State: Alabama Zip: 35474

This application is submitted in accordance with the provisions of the Georgia Rules for Air Quality Control and, to the best of my knowledge, is complete and correct.

Signature: Michael Ballard

Date: 09/20/18

11. If confidential information is being submitted in this application, were the guidelines followed in the "Procedures for Requesting that Submitted Information be treated as Confidential"?

No Yes

12. New Facility Emissions Summary

Criteria Pollutant	New Facility	
	Potential (tpy)	Actual (tpy)
Carbon monoxide (CO)	N/A	N/A
Nitrogen oxides (NOx)	N/A	N/A
Particulate Matter (PM) (filterable only)	96.90	4.85
PM <10 microns (PM10)	28.03	1.40
PM <2.5 microns (PM2.5)	3.29	0.165
Sulfur dioxide (SO ₂)	N/A	N/A
Volatile Organic Compounds (VOC)	N/A	N/A
Greenhouse Gases (GHGs) (in CO ₂ e)	N/A	N/A
Total Hazardous Air Pollutants (HAPs)	0.0085	0.00043
Individual HAPs Listed Below:		
Arsenic	0.001	0.00005
Beryllium	0.00003	0.000001
Cadmium	0.0000048	0.0000002
Chromium	0.0014	0.00005
Lead	0.0003	0.000015
Manganese	0.0051	0.00025

13. Existing Facility Emissions Summary N/A

Criteria Pollutant	Current Facility		After Modification	
	Potential (tpy)	Actual (tpy)	Potential (tpy)	Actual (tpy)
Carbon monoxide (CO)				
Nitrogen oxides (NOx)				
Particulate Matter (PM) (filterable only)				
PM <10 microns (PM10)				
PM <2.5 microns (PM2.5)				
Sulfur dioxide (SO ₂)				
Volatile Organic Compounds (VOC)				
Greenhouse Gases (GHGs) (in CO ₂ e)				
Total Hazardous Air Pollutants (HAPs)				
Individual HAPs Listed Below:				

11. If confidential information is being submitted in this application, were the guidelines followed in the "Procedures for Requesting that Submitted Information be treated as Confidential"?

No Yes

12. New Facility Emissions Summary

Criteria Pollutant	New Facility	
	Potential (tpy)	Actual (tpy)
Carbon monoxide (CO)		
Nitrogen oxides (NOx)		
Particulate Matter (PM) (filterable only)		
PM <10 microns (PM10)		
PM <2.5 microns (PM2.5)		
Sulfur dioxide (SO ₂)		
Volatile Organic Compounds (VOC)		
Greenhouse Gases (GHGs) (in CO ₂ e)		
Total Hazardous Air Pollutants (HAPs)		
Individual HAPs Listed Below:		
Nickel	0.0096	0.00005
Selenium	0.00022	0.00001

13. Existing Facility Emissions Summary N/A

Criteria Pollutant	Current Facility		After Modification	
	Potential (tpy)	Actual (tpy)	Potential (tpy)	Actual (tpy)
Carbon monoxide (CO)				
Nitrogen oxides (NOx)				
Particulate Matter (PM) (filterable only)				
PM <10 microns (PM10)				
PM <2.5 microns (PM2.5)				
Sulfur dioxide (SO ₂)				
Volatile Organic Compounds (VOC)				
Greenhouse Gases (GHGs) (in CO ₂ e)				
Total Hazardous Air Pollutants (HAPs)				
Individual HAPs Listed Below:				

14. 4-Digit Facility Identification Code:

SIC Code: 3531 3273 SIC Description: Concrete Plant
 NAICS Code: 327320 NAICS Description: Concrete Plant

15. Description of general production process and operation for which a permit is being requested. If necessary, attach additional sheets to give an adequate description. Include layout drawings, as necessary, to describe each process. References should be made to source codes used in the application.

Concrete Batch Plant

Aggregate and sand are delivered to the site by truck, stored on the ground, and conveyed to separate storage bins. Emissions from aggregate and sand transfer are uncontrolled. Cement is delivered to the site, via truck and pneumatically transferred to an elevated cement silo. Emissions from the cement transfer operation are controlled by a dust collector. Aggregate, sand and cement from the elevated storage bins/silo are feed by an auger to the weight hopper which combines the proper amount of each material. Emission from the weight hopper are controlled by a dust collector. The weighed material, along with water is loaded into a cement truck, mixed and taken to the job site. Emissions are uncontrolled.

16. Additional information provided in attachments as listed below:

- Attachment A - Flow Diagram
- Attachment B - Location Map
- Attachment C - Emission Calculations
- Attachment D - _____
- Attachment E - _____
- Attachment F - _____

17. Additional information: Unless previously submitted, include the following two items:

- Plot plan/map of facility location or date of previous submittal: See Attachment B
- Flow Diagram or date of previous submittal: See Attachment A

18. Other Environmental Permitting Needs:

Will this facility/modification trigger the need for environmental permits/approvals (other than air) such as Hazardous Waste Generation, Solid Waste Handling, Water withdrawal, water discharge, SWPPP, mining, landfill, etc

No Yes, please list below:

Stormwater

19. List requested permit limits including synthetic minor (SM) limits.

Ballard Contractors request a production limit of 600,000 cubic yards of concrete per year.

B.

Form 2.00

C.

Form 2.06

Facility Name: Ballard Contractors Date of Application: 09/21/2018

FORM 2.06 – MANUFACTURING AND OPERATIONAL DATA

Normal Operating Schedule: 8.0 hours/day 1.5 days/week 25 weeks/yr
 Additional Data Attached? - No - Yes, please include the attachment in list on Form 1.00, Item 16.

Seasonal and/or Peak Operating Periods: N/A

Dates of Annually Occurring Shutdowns: N/A

PRODUCTION INPUT FACTORS

Emission Unit ID	Emission Unit Name	Const. Date	Input Raw Material(s)	Annual Input	Hourly Process Input Rate		
					Design	Normal	Maximum
CBP	Concrete Batch Plant	11/01/18	Aggregate	27,750 tons	254.4 tph	92.5 tph	92.5 tph
			Sand	19,350 tons	177.4 tph	64.5 tph	64.5 tph
			Cement	8,250 tons	75.6 tph	27.5 tph	27.5 tph
			Water	3,753 tons	34.4 tph	12.51 tph	12.51 tph

PRODUCTS OF MANUFACTURING

Emission Unit ID	Description of Product	Production Schedule		Hourly Production Rate (Give units: e.g. lb/hr, ton/hr)			
		Tons/yr	Hr/yr	Design	Normal	Maximum	Units
CBP	Concrete	59103	300	275	100	100	cy/hr

D.

Form 3.00

Facility Name: Ballard Contractors Date of Application: 09/21/2018

Form 3.00 – AIR POLLUTION CONTROL DEVICES – PART B: EMISSION INFORMATION

APCD Unit ID	Pollutants Controlled	Percent Control Efficiency		Inlet Stream To APCD		Exit Stream From APCD		Pressure Drop Across Unit (Inches of water)
		Design	Actual	lb/hr	Method of Determination	lb/hr	Method of Determination	
CDC	A. PM	>99.9	>99.9	20.075	AP-42 Table 11.12-2	0.027	AP-42 Table 11.12-2	<3.0
	B. PM ₁₀	>99.9	>99.9	12.925	AP-42 Table 11.12-2	0.0094	AP-42 Table 11.12-2	
	C. PM _{2.5}	>97.5	>97.5	0.048	Engineering Est.	0.0012	AP-42 Table 11.12-2 Background Document	
	D. HAPs							
	1. Arsenic	>99.7	>99.7	0.000046	AP-42 Table 11.12-8	0.00000012	AP-42 Table 11.12-8	
	2. Beryllium	>97.3	>97.3	0.00000049	AP-42 Table 11.12-8	0.000000013	AP-42 Table 11.12-8	
	3. Cadmium	>88.4	>88.4	0.00000064	AP-42 Table 11.12-8	0.000000074	AP-42 Table 11.12-8	
	4. Chromium	>88.4	>88.4	0.00000069	AP-42 Table 11.12-8	0.00000008	AP-42 Table 11.12-8	
HDC	5. Lead	>98.5	>98.5	0.00002	AP-42 Table 11.12-8	0.00000003	AP-42 Table 11.12-8	
	6. Manganese	>99.9	>99.9	0.0056	AP-42 Table 11.12-8	0.00000032	AP-42 Table 11.12-8	
	7. Nickel	>99.7	>99.7	0.00048	AP-42 Table 11.12-8	0.00000012	AP-42 Table 11.12-8	
	8. Selenium	>99.7	>99.7	0.00084	AP-42 Table 11.12-8	0.0000002	AP-42 Table 11.12-8	
	A. PM	99.0	99.0	0.754	AP-42 Table 11.12-2	0.0075	Engineering Est.	<3.0
	B. PM ₁₀	99.0	99.0	0.44	AP-42 Table 11.12-2	0.0044	Engineering Est.	
	C. PM _{2.5}	95.0	95.0	0.057	AP-42 Table 11.12-3 Background Document	0.0029	Engineering Est.	

E.

Form 3.02

F.

Form 4.00

Facility Name: Ballard Contractors

Date of Application: 09/21/2018

FORM 4.00 – EMISSION INFORMATION

Emission Unit ID	Air Pollution Control Device ID	Stack ID	Pollutant Emitted	Emission Rates					
				Hourly Actual Emissions (lb/hr)	Hourly Potential Emissions (lb/hr)	Actual Annual Emission (tpy)	Potential Annual Emission (tpy)	Method of Determination	
CBP	CDC	CDC1	A. PM	0.027	0.027	0.0041	0.0817	AP-42, Table 11.12-2	
			B. PM ₁₀	0.0094	0.0094	0.0014	0.0281	AP-42, Table 11.12-2	
			C. PM _{2.5}	0.0012	0.0012	0.0002	0.0036	AP-42, Chapter 11.12, Background Document	
			D. HAPs						
	1. Arsenic	0.00000012	0.00000012	0.000000018	0.00000035	AP-42, Table 11.12-8			
	2. Beryllium	0.00000013	0.00000013	0.000000002	0.00000004	AP-42, Table 11.12-8			
	3. Cadmium	0.00000074	0.00000074	0.00000011	0.000022	AP-42, Table 11.12-8			
	4. Chromium	0.00000008	0.00000008	0.00000012	0.000024	AP-42, Table 11.12-8			
	5. Lead	0.00000003	0.00000003	0.000000045	0.000009	AP-42, Table 11.12-8			
6. Manganese	0.00000032	0.00000032	0.00000048	0.0000097	AP-42, Table 11.12-8				
7. Nickel	0.00000012	0.00000012	0.00000017	0.0000035	AP-42, Table 11.12-8				
8. Selenium	0.0000002	0.0000002	0.00000003	0.000006	AP-42, Table 11.12-8				
9. Total	0.00000083	0.00000083	0.00000013	0.000025	AP-42, Table 11.12-8				
CBP	HDC	HDC1	A. PM	0.7536	0.7536	0.1130	2.2608	AP-42, Table 11.12-2	
			B. PM ₁₀	0.4396	0.4396	0.660	1.3188	AP-42, Table 11.12-2	
			C. PM _{2.5}	0.0572	0.0572	0.0086	0.1715	AP-42, Chapter 11.12, Background Document	

Facility Name: Ballard Contractors

Date of Application: 09/21/2018

FORM 4.00 – EMISSION INFORMATION

Emission Unit ID	Air Pollution Control Device ID	Stack ID	Pollutant Emitted	Emission Rates						Method of Determination	
				Hourly Actual Emissions (lb/hr)	Hourly Potential Emissions (lb/hr)	Actual Annual Emission (tpy)	Potential Annual Emission (tpy)	Hourly Actual Emissions (lb/hr)	Hourly Potential Emissions (lb/hr)		
CBP	N/A	AT	A. PM	0.6383	0.6383	0.0957	1.9148	0.6383	0.6383	AP-42 Table 11.12-2	
			B. PM ₁₀	0.3053	0.3053	0.0458	0.9158	0.3053	0.3053	AP-42 Table 11.12-2	
			C. PM _{2.5}	0.0397	0.0397	0.006	0.1191	0.0397	0.0397	AP-42 Chapter 11.12, Background Document	
CBP	N/A	ST	A. PM	0.1355	0.1355	0.0203	0.4064	0.1355	0.1355	AP-42 Table 11.12-2	
			B. PM ₁₀	0.0639	0.0639	0.0096	0.1916	0.0639	0.0639	AP-42 Table 11.12-2	
			C. PM _{2.5}	0.0083	0.0083	0.0012	0.0249	0.0083	0.0083	AP-42 Chapter 11.12, Background Document	
CBP	N/A	TL	A. PM	30.745	30.745	4.6118	92.235	30.745	30.745	AP-42 Table 11.12-2	
			B. PM ₁₀	8.525	8.525	1.2788	25.575	8.525	8.525	AP-42 Table 11.12-2	
			C. PM _{2.5}	0.99	0.99	0.1485	2.97	0.99	0.99	AP-42 Chapter 11.12, Background Document	
			D. HAPs								
			1. Arsenic	0.00034	0.00034	0.00005	0.001	0.00034	0.00034	AP-42 Table 11.12-8	
			2. Beryllium	0.0000067	0.0000067	0.000001	0.00002	0.0000067	0.0000067	AP-42 Table 11.12-8	
			3. Cadmium	0.00000094	0.00000094	0.00000014	0.0000028	0.00000094	0.00000094	AP-42 Table 11.12-8	
			4. Chromium	0.00031	0.00031	0.000047	0.00094	0.00031	0.00031	AP-42 Table 11.12-8	
			5. Lead	0.0001	0.0001	0.000015	0.0003	0.0001	0.0001	AP-42 Table 11.12-8	
6. Manganese	0.0017	0.0017	0.00025	0.005	0.0017	0.0017	AP-42 Table 11.12-8				
7. Nickel	0.00033	0.00033	0.000049	0.00098	0.00033	0.00033	AP-42 Table 11.12-8				
8. Selenium	0.000072	0.000072	0.000011	0.00021	0.000072	0.000072	AP-42 Table 11.12-8				
9. Total	0.00284	0.00284	0.00043	0.0085	0.00284	0.00284	AP-42 Table 11.12-8				

G.

Form 5.00

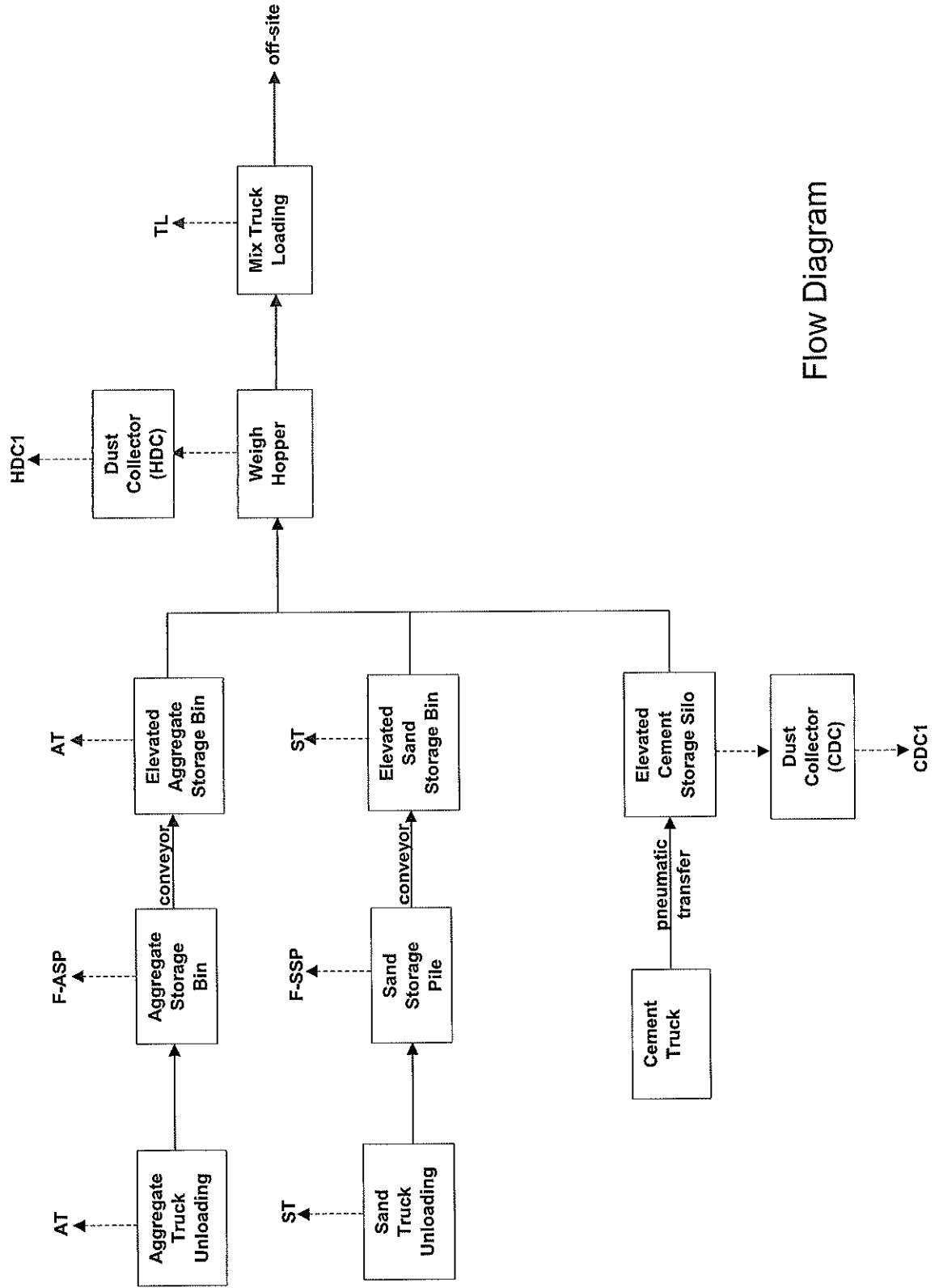
H.

Form 6.00

I.

Attachment A

Flow Diagram



Flow Diagram

J.

Attachment B

Location Map (Plot Plan)