

**Air Quality Permit Application**  
**C&H Paving, Inc.**  
**Statewide Portable Crushing Plant #1**

*Prepared For*



**C&H Paving, Inc.**  
**204 Main Street**  
**Thomson, GA 30824**

*Prepared By*



**Black Rock Consulting, LLC**  
**7 Dunwoody Park, Suite 115**  
**Atlanta, Georgia 30338**

**October 8, 2018**

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## **AIR QUALITY PERMIT APPLICATION C&H PAVING, INC. STATEWIDE PORTABLE CRUSHING PLANT #1**

**1.0 APPLICATION**

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## SIP AIR PERMIT APPLICATION

### EPD Use Only

Date Received: \_\_\_\_\_ Application No. \_\_\_\_\_

### FORM 1.00: GENERAL INFORMATION

#### 1. Facility Information

Facility Name: C&H Paving, Inc. – Statewide Portable Crushing Plant #1  
AIRS No. (if known): 04-13- -  
Facility Location: Street: Statewide  
City: \_\_\_\_\_ Georgia Zip: \_\_\_\_\_ County: Statewide  
Is this facility a "small business" as defined in the instructions? Yes:  No:

#### 2. Facility Coordinates

Latitude: \_\_\_\_\_ ° ' " **NORTH** Longitude: \_\_\_\_\_ ° ' " **WEST**  
UTM Coordinates: Statewide **EAST** \_\_\_\_\_ Statewide **NORTH** **ZONE** \_\_\_\_\_

#### 3. Facility Owner

Name of Owner: C&H Paving, Inc.  
Owner Address Street: 204 Main Street  
City: Thomson State: GA Zip: 30824

#### 4. Permitting Contact and Mailing Address

Contact Person: Benjamin Cranford Title: Owner  
Telephone No.: 706-595-5351 Ext. \_\_\_\_\_ Fax No.: 706-595-5083  
Email Address: [benjamincranford@att.net](mailto:benjamincranford@att.net)  
Mailing Address: Same as: Facility Location:  Owner Address:  Other:   
If Other: Street Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

#### 5. Authorized Official

Name: Benjamin Cranford Title: Owner  
Address of Official Street: 204 Main Street  
City: Thomson State: GA Zip: 30824

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:  Date: 10-10-18

**6. Reason for Application: (Check all that apply)**

- New Facility (to be constructed)
  Revision of Data Submitted in an Earlier Application  
 Existing Facility (initial or modification application)
 Application No.: \_\_\_\_\_  
 Permit to Construct
 Date of Original Submittal: \_\_\_\_\_  
 Permit to Operate  
 Change of Location  
 Permit to Modify Existing Equipment:
 Affected Permit No.: \_\_\_\_\_

**7. Permitting Exemption Activities (for permitted facilities only):**

Have any exempt modifications based on emission level per Georgia Rule 391-3-1-.03(6)(i)(3) been performed at the facility that have not been previously incorporated in a permit?

- No**
 **Yes, please fill out the SIP Exemption Attachment** (See Instructions for the attachment download)

**8. Has assistance been provided to you for any part of this application?**

- No**
 **Yes, SBAP**
 **Yes, a consultant has been employed or will be employed.**

**If yes, please provide the following information:**

Name of Consulting Company: Black Rock Consulting, LLC  
 Name of Contact: Chris Brown  
 Telephone No.: 770-395-6111 Fax No.: 770-395-6999  
 Email Address: [cbrown@blackrockga.com](mailto:cbrown@blackrockga.com)  
 Mailing Address: Street: 7 Dunwoody Park, Suite 115  
 City: Atlanta State: GA Zip: 30338

Describe the Consultant's Involvement:

Application preparation and PTE calculations

**9. Submitted Application Forms:** Select only the necessary forms for the facility application that will be submitted.

No. of Forms	Form
X	2.00 Emission Unit List
X	2.01 Boilers and Fuel Burning Equipment
	2.02 Storage Tank Physical Data
	2.03 Printing Operations
	2.04 Surface Coating Operations
	2.05 Waste Incinerators (solid/liquid waste destruction)
X	2.06 Manufacturing and Operational Data
	3.00 Air Pollution Control Devices (APCD)
	3.01 Scrubbers
	3.02 Baghouses & Other Filter Collectors
	3.03 Electrostatic Precipitators
X	4.00 Emissions Data
	5.00 Monitoring Information
	6.00 Fugitive Emission Sources
	7.00 Air Modeling Information

**10. Construction or Modification Date**

Estimated Start Date: 11/30/18

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)		
Nitrogen oxides (NOx)		
Particulate Matter (PM) (filterable only)		
PM <10 microns (PM10)	94.44	5.32
PM <2.5 microns (PM2.5)		
Sulfur dioxide (SO <sub>2</sub> )		
Volatile Organic Compounds (VOC)		
Greenhouse Gases (GHGs) (in CO <sub>2</sub> e)		
Total Hazardous Air Pollutants (HAPs)		
Individual HAPs Listed Below:		

**13. Existing Facility Emissions Summary**

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 <sub>2</sub> )				
Volatile Organic Compounds (VOC)				
Greenhouse Gases (GHGs) (in CO <sub>2</sub> e)				
Total Hazardous Air Pollutants (HAPs)				
Individual HAPs Listed Below:				


**14. 4-Digit Facility Identification Code:**

SIC Code: 1611 SIC Description: Highway and Street Construction  
 NAICS Code: 237310 NAICS Description: Highway, Street and Bridge Construction

**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.**

C&H Paving, Inc proposes to use portable crushing and screening equipment to process both virgin rock, rock generated as part of road construction, as well as concrete and asphalt from road improvement projects. The material when crushed and screened yields graded aggregate base and other aggregate products.

Source codes are identified on the attached. Maximum potential production at the primary crusher is theoretically 560 tons per hour (TPH). This is the maximum capacity of the crusher in a fixed based (non-portable) application with the greatest closed side settings. Practical limiting factors for production include crusher closed side settings, loader feeding and in series cone crusher with a maximum production of 330 TPH at the primary crusher. The proposed practical production limits are presented in the controlled PTE attached.

**6616. Additional information provided in attachments as listed below:**

- Attachment A - Potential to Emit Calculations
- Attachment B - Figure – Flow Diagram
- Attachment C - \_\_\_\_\_
- 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: NA
- Flow Diagram or date of previous submittal: \_\_\_\_\_

**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:**

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

While the portable processing plant will have dust suppression to meet opacity performance standards, the portable processing plant is a true minor source with a potential to emit PM-10 of less than 100 tons per year.

Facility Name: C&H Paving, Inc.- Statewide Portable Crushing Plant #1

Date of Application: 10/8/18

FORM 2.00 – EMISSION UNIT LIST

Table with 4 columns: Emission Unit ID, Name, Manufacturer and Model Number, Description. The first row contains 'See attached spreadsheet' in the Name column. All other rows are empty.



**Facility Name:** C&H Paving, Inc. Statewide Portable Crushing Plant #1.

**Date of Application:** 8/10/2018

**FORM 2.01 – BOILERS AND FUEL BURNING EQUIPMENT**

Emission Unit ID	Type of Burner	Type of Draft <sup>1</sup>	Design Capacity of Unit (MMBtu/hr Input)	Percent Excess Air	Dates		Date & Description of Last Modification
					Construction	Installation	

<sup>1</sup> This column does not have to be completed for natural gas only fired equipment.

Facility Name: C&H Paving, Inc.- Statewide Portable #1.

Date of Application: 10/8/18

**FUEL DATA**

Emission Unit ID	Fuel Type	Potential Annual Consumption				Hourly Consumption		Heat Content		Percent Sulfur		Percent Ash in Solid Fuel	
		Total Quantity		Percent Use by Season		Max.	Avg.	Min.	Avg.	Max.	Avg.	Max.	Avg.
		Amount	Units	Ozone Season May 1 - Sept 30	Non-ozone Season Oct 1 - Apr 30								
D1	Diesel	12,000	gal			8	4						
D2	Diesel	6,000	gal			4	2						
D3	Diesel	12,000	gal			8	4						
D4	Diesel	12,000	gal			8	4						
D5	Diesel	12,000	gal			8	4						
D6	Diesel	6,000	gal			4	2						
D7	Diesel	6,000	gal			4	2						

**Fuel Supplier Information**

Fuel Type	Name of Supplier	Phone Number	Supplier Location			
			Address	City	State	Zip
Diesel	Boswell Oil	706-546-8863	154 Floyd Street	Athens	GA	30607

Facility Name: C&H Paving, Inc. Statewide Portable Crushing Plant #1. Date of Application: 10/8/18

**FORM 2.06 – MANUFACTURING AND OPERATIONAL DATA**

Normal Operating Schedule: 12 hours/day 5 days/week 50 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
Portable Plant #1	Portable Plant	2017	Virgin Rock and Construction Debris	750,000	350 TPH	350 TPH	350 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
Portable Plant #1	Graded Aggregate Base	750,000	3000	350	250	350	T/Hr

**Facility Name:** C&H Paving, Inc. Statewide Portable Crushing Plant #1

**Date of Application:** 10/8/18

**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)	
See Attached Spreadsheets								

**C&H Paving, Inc.**

Air Source Parameters

**Air Permit Application**

**Statewide Portable Crushing Plant #1**

10/8/2018

TONS/HOUR - Primary

350	tons/hr

HOURS/YEAR - Plant

8760	Hr



**C&H Paving, Inc.**

Air Model Source Parameters  
 Emission Calculations (with restrictions and controls)  
 Air Permit Application  
 Statewide Portable Crushing Plant #1  
 10/8/2018

PROPOSED PERMITTED TONS/HOUR 330 At Primary Crusher  
 CONDITIONS HOURS/YEAR 8760

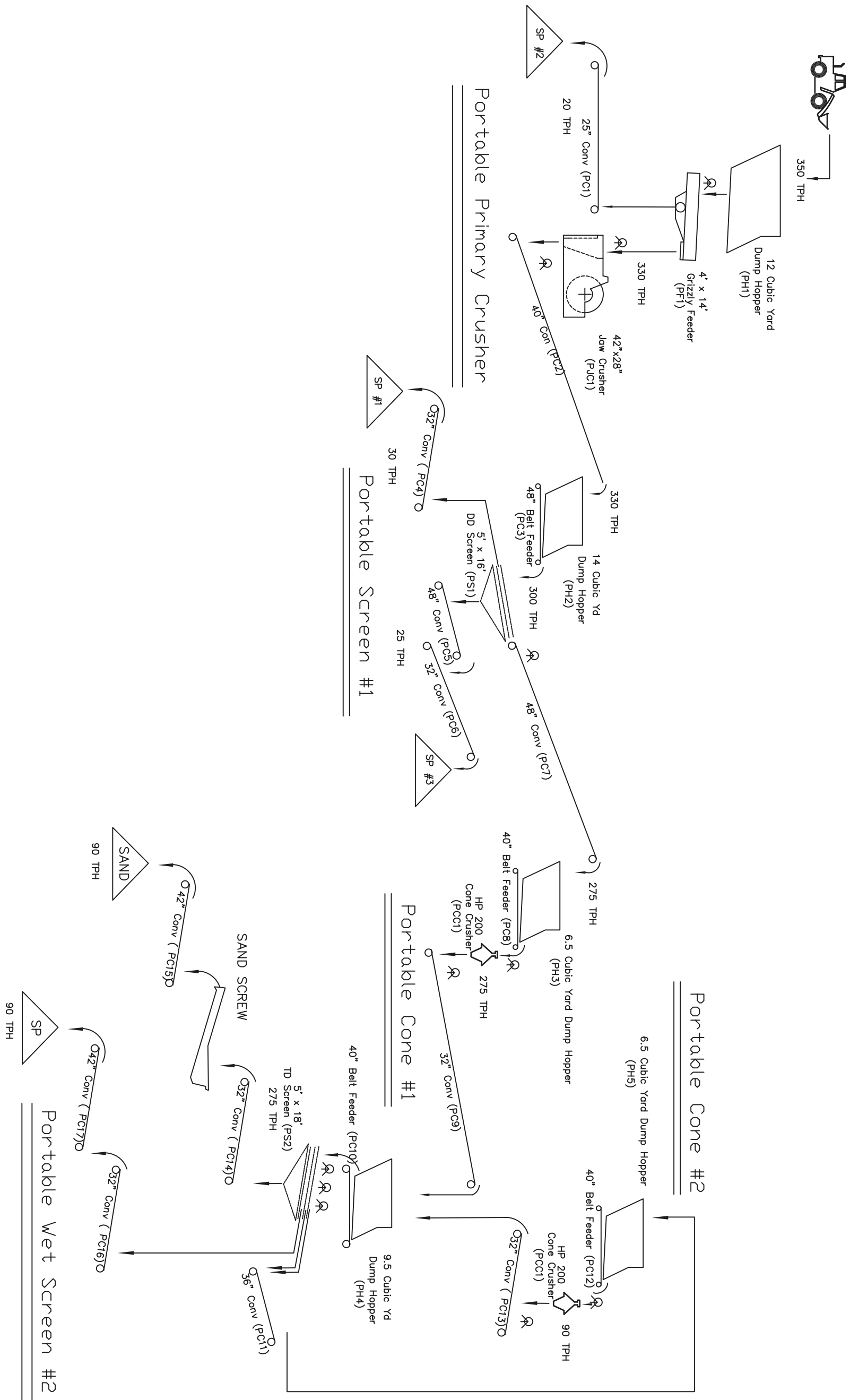
SOURCE	SOURCE CODE	MAXIMUM PROCESS RATE (TPH)	EMISSION FACTOR (DRY) (PM10)(lbs/ton)	EMISSION CONTROL SYSTEM	SOURCE OF EMISSION FACTOR AND/OR CONTROL EFFICIENCY	PROCESS EMISSIONS (PM10 TON/YR)
Portable Dump Hopper 1	PH1	350	0.000016	NONE	AP-42 Section 11.19.2-2	0.025
Portable Grizzly Feeder	PF1	350	0.00074	WATER SPRAY	AP-42 Section 11.19.2-2	1.134
Portable Conveyor 1	PC1	20	0.0011	NONE	AP-42 Section 11.19.2-2	0.096
PC1 to Stockpile	PC1-SP	20	0.0011	NONE	AP-42 Section 11.19.2-2	0.096
Portable Jaw Crusher	PJC1	330	0.00054	WATER SPRAY	AP-42 Section 11.19.2-2	0.781
Portable Conveyor 2	PC2	330	0.000046	WATER SPRAY	AP-42 Section 11.19.2-2	0.066
Portable Dump Hopper 2	PH2	330	0.000046	CONTROL CARRY	AP-42 Section 11.19.2-2	0.066
Portable Belt Feeder	PC3	330	0.000046	CONTROL CARRY	AP-42 Section 11.19.2-2	0.066
Portable Double Deck Screen	PS1	330	0.00074	CONTROL CARRY	AP-42 Section 11.19.2-2	1.070
Portable Conveyor 4	PC4	30	0.0011	NONE	AP-42 Section 11.19.2-2	0.145
PC4 to Stockpile	PC4-SP	30	0.0011	NONE	AP-42 Section 11.19.2-2	0.145
Portable Conveyor 5	PC 5	25	0.0011	NONE	AP-42 Section 11.19.2-2	0.120
Portable Conveyor 6	PC6	25	0.0011	NONE	AP-42 Section 11.19.2-2	0.120
PC6 to Stockpile	PC6-SP	25	0.0011	NONE	AP-42 Section 11.19.2-2	0.120
Portable Conveyor 7	PC7	275	0.000046	WATER SPRAY	AP-42 Section 11.19.2-2	0.055
Portable Dump Hopper 3	PH3	275	0.000046	CONTROL CARRY	AP-42 Section 11.19.2-2	0.055
Portable Belt Feeder	PC8	275	0.000046	CONTROL CARRY	AP-42 Section 11.19.2-2	0.055
Portable Cone Crusher 1	PCC1	275	0.00054	WATER SPRAY	AP-42 Section 11.19.2-2	0.650
Portable Conveyor 9	PC9	275	0.000046	WATER SPRAY	AP-42 Section 11.19.2-2	0.055
Portable Dump Hopper 4	PH4	275	0.000046	CONTROL CARRY	AP-42 Section 11.19.2-2	0.055
Portable Belt Feeder	PC10	275	0.000046	CONTROL CARRY	AP-42 Section 11.19.2-2	0.055
Portable Triple Deck Screen	PS2	275	0	WET PROCESS	AP-42 Section 11.19.2-2	0.000
Portable Conveyor 11	PC11	90	0.000046	CONTROL CARRY	AP-42 Section 11.19.2-2	0.018
Portable Dump Hopper 5	PH5	90	0.000046	CONTROL CARRY	AP-42 Section 11.19.2-2	0.018
Portable Belt Feeder	PC12	90	0.000046	CONTROL CARRY	AP-42 Section 11.19.2-2	0.018
Portable Cone Crusher 2	PCC2	90	0.00054	WATER SPRAY	AP-42 Section 11.19.2-2	0.213
Portable Conveyor 13	PC13	90	0.000046	WATER SPRAY	AP-42 Section 11.19.2-2	0.018
Portable Conveyor 14	PC14	90	0	WET PROCESS	AP-42 Section 11.19.2-2	0.000
Portable Sand Screw	PSS	90	0	WET PROCESS	AP-42 Section 11.19.2-2	0.000
Portable Conveyor 15	PC15	90	0	WET PROCESS	AP-42 Section 11.19.2-2	0.000
PC15 to Stockpile	PC15-SP	90	0	WET PROCESS	AP-42 Section 11.19.2-2	0.000
Portable Conveyor 16	PC16	90	0	WET PROCESS	AP-42 Section 11.19.2-2	0.000
Portable Conveyor 17	PC17	90	0	WET PROCESS	AP-42 Section 11.19.2-2	0.000
PC17 to Stockpile	PC17-SP	90	0	WET PROCESS	AP-42 Section 11.19.2-2	0.000
<b>TOTAL POTENTIAL EMISSION</b>						<b>5.320</b>

## C&H Paving, Inc.

### Equipment List Air Permit Application Statewide Portable Crushing Plant #1 10/8/2018

SOURCE	COURSE CODE	SIZE	NSPS APPLICABILITY
Portable Dump Hopper 1	PH1	12 Cubic Yard	YES
Portable Grizzly Feeder	PF1	4'x14'	YES
Portable Conveyor 1	PC1	25"	YES
Portable Jaw Crusher	PJC1	42"x28"	YES
Portable Conveyor 2	PC2	40"	YES
Portable Dump Hopper 2	PH2	14 Cubic Yard	YES
Portable Belt Feeder	PC3	48"	YES
Portable Double Deck Screen	PS1	5'x16'	YES
Portable Conveyor 4	PC4	32"	YES
Portable Conveyor 5	PC5	48"	YES
Portable Conveyor 6	PC6	32"	YES
Portable Conveyor 7	PC7	48"	YES
Portable Dump Hopper 3	PH3	6.5 Cubic Yard	YES
Portable Belt Feeder	PC8	40"	YES
Portable Cone Crusher 1	PCC1	200 HP	YES
Portable Conveyor 9	PC9	32"	YES
Portable Dump Hopper 4	PH4	9.5 Cubic Yard	YES
Portable Belt Feeder	PC10	40"	YES
Portable Triple Deck Screen	PS2	5'x18'	YES
Portable Conveyor 11	PC11	36"	YES
Portable Dump Hopper 5	PH5	6.5 Cubic Yard	YES
Portable Belt Feeder	PC12	40"	YES
Portable Cone Crusher 2	PCC2	HP200	YES
Portable Conveyor 13	PC13	32"	YES
Portable Conveyor 14	PC14	32"	YES
Portable Sand Screw	PSS		YES
Portable Conveyor 15	PC15	42"	YES
Portable Conveyor 16	PC16	32"	YES
Portable Conveyor 17	PC17	42"	YES





**BRC**  
**BLACK ROCK CONSULTING, LLC**  
 Seven Dunwoody Park, Suite 115  
 Atlanta, Georgia 30338  
 (P) 770.395.6111 (F) 770.395.6999

**Process Flow Diagram**  
**Statewide Portable**  
**Crushing Plant #1**

Project No.	No	Revision	Date
Design By:			
Drawn By: CB			
Checked By:			
Date: 10/8/18			
Scale: NTS			

**Air Permit Application**  
 C&H Paving  
 Statewide-Georgia

Drawing No.  
**1**