



DEPARTMENT OF THE ENVIRONMENT

AIR AND RADIATION MANAGEMENT ADMINISTRATION
1800 WASHINGTON BOULEVARD
BALTIMORE, MARYLAND 21230

Robert L. Ehrlich, Jr.
Governor

Kendall P. Philbrick
Acting Secretary

Construction Permit

Operating Permit

PERMIT NO. 019-6-0072 N

Date Issued December 10, 2003

PERMIT FEE \$500.00 (Paid)

In accordance with
COMAR 26.11.02.04B
Expiration Date

LEGAL OWNER & ADDRESS

C & D Concrete, LLC
P.O. Box 1530
Waldorf MD 21604
Attn: Mr. J. Santivasci, Env. & Safety

SITE

C & D Concrete, LLC
2757 Gypsy Hill Road
Cambridge MD 21613
Dorchester County
Premises #0153

SOURCE DESCRIPTION

One (1) 90 cubic foot per hour concrete batch plant equipped with a central dust collection system and a baghouse.

This source is subject to the conditions described on the attached pages.

[Signature]
Program Manager

[Signature]
Director, Air and Radiation Management Administration



C & D CONCRETE, LLC.
2757 GYPSY HILL ROAD
CAMBRIDGE, MARYLAND 21613
PERMIT TO CONSTRUCT CONDITIONS
PERMIT NUMBER 019-6-0072 N

- (1) The following applications are incorporated by reference in this permit:
- (a) Application for Processing or Manufacturing Equipment (AMA-5) received May 28, 2003.
 - (b) Application for Gas Cleaning or Emissions Control Equipment (AMA-6) received December 3, 2003.

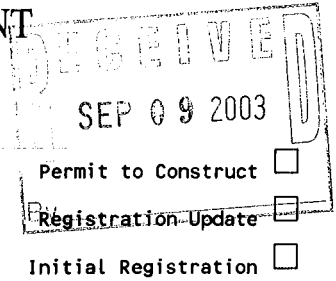
If there are any discrepancies between the permit and the applications, the conditions on the permit will take precedence. In the applications, estimates of dimensions, volumes, emission rates, operating rates, feed rates and hours of operation are not deemed to constitute enforceable numeric limits except to the extent that they are necessary to make a determination of compliance with applicable regulations.

- (2) Inspectors from the Department and the Dorchester County Health Department shall be afforded access to the Company's property at any reasonable time for the purpose of:
- (a) inspecting construction authorized under this permit;
 - (b) sampling any materials stored or processed on site, or any waste or discharge into the environment;
 - (c) inspecting any monitoring equipment required by the permit and applicable regulations;
 - (d) having access to or copying any records relevant to the Department's determination of compliance with an air pollution control requirement including all documents required to be kept by this permit and by applicable regulations; and
 - (e) obtaining any photographic documentation and evidence.
- (3) This source is subject to all applicable Federal and local requirements.
- (4) This source is subject to all applicable federally enforceable State regulations including, but not limited to, the following regulations:
- (a) COMAR 26.11.02.09A which requires the Company to obtain a Permit to Construct if an installation is modified in such a manner that there is a change in the quantity, nature, or characteristics of emissions from the source from those provided in this permit;
 - (b) COMAR 26.11.06.02C(1) which prohibits the discharge of emissions from an installation, other than water in an uncombined form, which is greater than 20% opacity.

C & D CONCRETE, LLC.
2757 GYPSY HILL ROAD
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- (c) COMAR 26.11.06.03B(1)(a) which limits particulate matter emissions to 0.05 grains per standard cubic foot of dry exhaust gas;
 - (d) COMAR 26.11.06.03D which requires the Company to take reasonable precautions to prevent particulate matter from becoming airborne from materials being handled, transported, or stored.
- (5) This source is subject to all applicable State-only air pollution control requirements including, but not limited to, the following regulations:
- (a) COMAR 26.11.06.08 and 26.11.06.09 which generally prohibit the discharge of emissions beyond the property line in such a manner that a nuisance or air pollution is created.
 - (b) COMAR 26.11.15.05 which requires the Permittee to use the Best Available Control Technology for Toxics (T-BACT) to minimize toxic air pollutants.
 - (c) COMAR 26.11.15.06 which prohibits the discharge of toxic air pollutants to the extent that the emissions will unreasonably endanger human health.
- (6) Prior to any increase in the quantities and/or change in the types of materials stated in the application or limited by the permit, notification shall be provided to the Department. If the Department determines that the increase or change constitutes a modification, the Company shall obtain a Permit to Construct prior to the modification.
- (7) Nothing in this permit authorizes the violation of any rule or regulation or the creation of a nuisance or air pollution.
- (8) If any provision of this permit shall be held invalid for any reason, the remaining provisions shall remain in full force and effect, and such invalid provisions shall be considered severed and deleted from the permit.

MARYLAND DEPARTMENT OF THE ENVIRONMENT
 1800 Washington Blvd • Baltimore, Maryland 21230



APPLICATION FOR PROCESSING/MANUFACTURING EQUIPMENT

<p>1A OWNER OF EQUIPMENT /COMPANY NAME CTD Concrete LLC</p> <p>MAILING ADDRESS/STREET P.O. Box 1530</p> <p>CITY STATE ZIP Waldorf MD 21604</p> <p>TELEPHONE NUMBER (301) 932-5000</p>	<p style="text-align: center;">DO NOT WRITE IN THIS BLOCK</p> <p>2 REGISTRATION NUMBER</p> <p>County No. Premises No. 019 0153 1-2 3-6</p> <p>Registration Class Equipment No. 6 0072 7 8-11</p> <p>DATA YEAR APPLICATION DATE [] [] _____</p>																				
<p>SIGNATURE <u>Michael Beck</u> PRINT NAME AND TITLE <u>Michael Beck</u> DATE <u>8/25/03</u></p>																					
<p>1B EQUIPMENT LOCATION AND TELEPHONE NUMBER (IF DIFFERENT FROM ABOVE) 2757 Gypsy Hill Rd. STREET #, STREET NAME</p> <p><u>Cambridge</u> <u>MD</u> <u>21613</u> <u>(410) 221-0489</u> CITY, TOWN STATE ZIP TELEPHONE</p>																					
<p>PREMISES NAME (IF DIFFERENT FROM ABOVE)</p>																					
<p>3 STATUS</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:25%;"></th> <th style="width:15%;">STATUS</th> <th style="width:15%;">New Construction Begun MONTH/YEAR</th> <th style="width:15%;">New Construction Completed MONTH/YEAR</th> <th style="width:15%;">Existing Initial Operation MONTH/YEAR</th> </tr> </thead> <tbody> <tr> <td>A. NEW EQUIPMENT</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;">[] [] [] []</td> <td style="text-align: center;">[] [] [] []</td> <td style="text-align: center;">0102</td> </tr> <tr> <td>B. MODIFICATION TO EXISTING EQUIPMENT</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>C. EXISTING EQUIPMENT</td> <td style="text-align: center;">15</td> <td style="text-align: center;">16-19</td> <td style="text-align: center;">20-23</td> <td style="text-align: center;">20-23</td> </tr> </tbody> </table>			STATUS	New Construction Begun MONTH/YEAR	New Construction Completed MONTH/YEAR	Existing Initial Operation MONTH/YEAR	A. NEW EQUIPMENT	<input checked="" type="checkbox"/>	[] [] [] []	[] [] [] []	0102	B. MODIFICATION TO EXISTING EQUIPMENT					C. EXISTING EQUIPMENT	15	16-19	20-23	20-23
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<p>4 DESCRIBE THIS EQUIPMENT: MAKE, MODEL, FEATURES, MANUFACTURER; INCLUDE MAXIMUM HOURLY INPUT RATE, ETC. Eagle 30109 90 yds pr hr</p>																					
<p>5 WORKMEN'S COMPENSATION COVERAGE EXPIRATION DATE <u>10/30/03</u> - COMPANY <u>Erie Ins. Company</u> BINDER/POLICY NUMBER <u>Q923000359</u></p>																					
<p>6 A. NUMBER OF PIECES OF IDENTICAL EQUIPMENT UNITS TO BE REGISTERED/PERMITTED AT THIS TIME _____ B. NUMBER OF STACKS/EMISSION POINTS ASSOCIATED WITH THIS EQUIPMENT _____</p>																					
<p>7 PERSON INSTALLING THIS EQUIPMENT (IF DIFFERENT FROM (1) ABOVE)</p> <p>NAME _____ TITLE _____ COMPANY _____ MAILING ADDRESS/STREET _____ CITY, TOWN _____ STATE _____ TELEPHONE () _____</p>																					

8 MAJOR ACTIVITY, PRODUCT OR SERVICE OF COMPANY AT THIS LOCATION

Concrete Production

9 CONTROL DEVICES ASSOCIATED WITH THIS EQUIPMENT

24-0 NONE

- 24-1 SIMPLE/MULTIPLE CYCLONE
- 24-2 SPRAY/ADSORB TOWER
- 24-3 VENTURI SCRUBBER
- 24-4 CARBON ADSORBER
- 24-5 ELECTROSTATIC PRECIPITATOR
- 24-6 BAGHOUSE
- 24-7 THERMAL/CATALYTIC AFTERBURNER
- 24-8 DRY SCRUBBER

OTHER

24-9

DESCRIBE

Central dust collection system

10 ANNUAL FUEL CONSUMPTION FOR THIS EQUIPMENT

<p>Oil - 1000 Gallons</p> <p>26-31</p> <p>Grade</p> <p>34</p>	<p>Sulfur %</p> <p>32-33</p> <p>Grade</p> <p>34</p>	<p>Natural Gas - 1000 FT³</p> <p>35-41</p> <p>Grade</p>	<p>LP Gas - 100 Gallons</p> <p>42-45</p> <p>Grade</p>	<p>Coal - Tons</p> <p>46-52</p>	<p>Sulfur %</p> <p>53-55</p>	<p>Ash %</p> <p>56-58</p>	<p>Moisture %</p> <p>59-63</p>	<p>Annual Amount Consumed</p> <p>66-1</p> <p>(Specify Type)</p>	<p>Other Fuels</p> <p>66-2</p> <p>(Specify Type)</p>	<p>Annual Amount Consumed</p> <p>66-2</p> <p>(Specify Units)</p>
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11 OPERATING SCHEDULE [for this equipment]

<p>Continuous Operation</p> <p>67-1</p>	<p>Batch Process</p> <p>67-2</p>	<p>Hours per Batch</p> <p>68-69</p>	<p>Batch per Week</p>	<p>Hours per Day</p> <p>70-71</p>	<p>Days per Week</p> <p>72</p>	<p>Days per Year</p> <p>73-75</p>
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SEASONAL VARIATION IN OPERATION:

<p>No Variation</p> <p>76</p>	<p>Winter Percent</p> <p>77-78</p>	<p>Spring Percent</p> <p>79-80</p>	<p>Summer Percent</p> <p>81-82</p>	<p>Fall Percent</p> <p>83-84</p>
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12 EQUIVALENT STACK INFORMATION - IS EXHAUST THROUGH DOORS, WINDOWS, ETC., ONLY?

Y OR N N

IF NOT, THEN →

86-88

HEIGHT ABOVE GROUND (FT)

NA

89-91

INSIDE DIAMETER AT TOP (INCHES)

NA

92-95

EXIT TEMPERATURE (°F)

NA

96-98

EXIT VELOCITY (FT/SEC)

NA

NOTE: ATTACH A BLOCK DIAGRAM OF PROCESS/PROCESS LINE, INDICATING NEW EQUIPMENT AS REPORTED ON THIS FORM AND ALL EXISTING EQUIPMENT, INCLUDING CONTROL DEVICES AND EMISSION POINTS.

13 INPUT MATERIALS [for this equipment only]

IS ANY OF THIS DATA TO BE CONSIDERED CONFIDENTIAL? Y OR N

NAME	CAS NUMBER (if applicable)	PER HOUR	INPUT RATE		UNITS
			PER YEAR	UNITS	
1. Cement		4,500		lbs	
2. Newcem		2,250		lbs	
3. Sand		130,000		lbs	
4. Gravel		162,000		lbs	
5. Add mix		230		ozs	
6. Reucer		1,1620		ozs	
7.					
8.					
9.					
TOTAL					

14 OUTPUT MATERIALS [for this equipment]
PROCESS/PRODUCT STREAM

NAME	CAS NUMBER (if applicable)	PER HOUR	OUTPUT RATE		UNITS
			PER YEAR	UNITS	
1. Concrete		90		yds	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
TOTAL					

15 WASTE STREAMS - SOLID AND LIQUID

NAME	CAS NUMBER (if applicable)	PER HOUR	OUTPUT RATE		UNITS
			PER YEAR	UNITS	
1. N/A					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
TOTAL					

220-238 <input type="checkbox"/> ACTION A: ADD C: CHANGE			POINT DESCRIPTION																																																																				
208-210				211 212				213 214				215-218				219																																																							
STAFF CODE				VOC CODE				SIP CODE				REGULATION CODE				CONFIDENTIALITY																																																							
186-192												193-199												200-201												202-207																																			
ANNUAL OPERATING RATE												MAXIMUM DESIGN HOURLY RATE												PERMIT TO OPERATE MONTH												TRANSACTION DATE (MM/DD/YR)																																			
171-174				175-177				178-185				19																																																											
INVENTORY DATE MONTH YEAR				EQUIPMENT CODE				SCC CODE				20																																																											
REVIEWED BY LOCAL JURISDICTION												DATE												REVIEWED BY STATE												DATE																																			
18 DATE REC'D. LOCAL												DATE REC'D. STATE												RETURN TO LOCAL JURISDICTION												DATE																																			
AIR MANAGEMENT USE ONLY																																																																							
165												166												167												168												169												170											
TSP												SOX												NOX												CO												VOC												PM10											
METHOD USED TO DETERMINE EMISSIONS (1 = ESTIMATE 2 = EMISSION FACTOR 3 = STACK TEST 4 = OTHER)																																																																							
150-154												140-144												145-149												160-164																																			
CARBON MONOXIDE												OXIDES OF SULFUR												OXIDES OF NITROGEN												PM-10																																			
135-139												123-128												111-116												129-134																																			
PARTICULATE MATTER												VOLATILE ORGANIC COMPOUNDS												OXIDES OF NITROGEN												PM-10																																			
17 TOTAL FUGITIVE EMISSIONS (FOR THIS EQUIPMENT ONLY) IN POUNDS PER OPERATING DAY																																																																							
117-122												105-110												99-104												16 TOTAL STACK EMISSIONS (FOR THIS EQUIPMENT ONLY) IN POUNDS PER OPERATING DAY																																			
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**STATE OF MARYLAND
DEPARTMENT OF THE ENVIRONMENT
Air and Radiation Management Administration**

MAY 28 2003

MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard • Baltimore Maryland 21230
(410) 537-3000 • 1-800-633-6101 • http://www.mde.state.md.us

Permit to Construct
Registration Update
Initial Registration

APPLICATION FOR PROCESSING/MANUFACTURING EQUIPMENT

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<p>SIGNATURE <u>[Signature]</u> PRINT NAME AND TITLE <u>JOHN SANTIVASI SAFETY DIR</u> DATE <u>5/24/03</u></p>																					
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8 MAJOR ACTIVITY, PRODUCT OR SERVICE OF COMPANY AT THIS LOCATION

Concrete Production

9 CONTROL DEVICES ASSOCIATED WITH THIS EQUIPMENT

24-0

NONE

- 24-1 CYCLONE
- 24-2 SIMPLE/MULTIPLE SPRAY/ADSORB TOWER
- 24-3 VENTURI SCRUBBER
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- 24-7 THERMAL/CATALYTIC AFTERBURNER
- 24-8 DRY SCRUBBER

OTHER

24-9 DESCRIBE

Central Dust Collector System

10 ANNUAL FUEL CONSUMPTION FOR THIS EQUIPMENT

<p>A</p> <p>26-31 OIL - 1000 GALLONS</p> <p>32-33 SULFUR %</p> <p>34 GRADE</p>	<p>42-45 LP GAS - 100 GALLONS</p> <p>GRADE</p>	<p>46-52 COAL - TONS</p>	<p>53-55 SULFUR %</p>	<p>55-58 ASH %</p>	<p>59-63 WOOD - TONS</p>	<p>64-65 MOISTURE %</p>
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Other Fuels Annual Amount Consumed (Specify Type) 66-1

Other Fuel Annual Amount Consumed (Specify Type) 66-2

Annual Amount Consumed (Specify Units)

11 OPERATING SCHEDULE [for this equipment]

67-1 <input type="checkbox"/> CONTINUOUS OPERATION	67-2 <input checked="" type="checkbox"/> BATCH PROCESS	68-69 <input type="checkbox"/> HOURS PER BATCH	70-71 <input type="checkbox"/> HOURS PER DAY	72 <input type="checkbox"/> DAYS PER WEEK	73-75 <input type="checkbox"/> DAYS PER YEAR
76 <input type="checkbox"/> NO VARIATION	77-78 <input type="checkbox"/> WINTER PERCENT	79-80 <input type="checkbox"/> SPRING PERCENT	81-82 <input type="checkbox"/> SUMMER PERCENT	83-84 <input type="checkbox"/> FALL PERCENT	(TOTAL SEASONS = 100%)

SEASONAL VARIATION IN OPERATION:

12 EQUIVALENT STACK INFORMATION - IS EXHAUST THROUGH DOORS, WINDOWS, ETC., ONLY? Y OR N

IF NOT, THEN →

86-88 HEIGHT ABOVE GROUND (FT)

89-91 INSIDE DIAMETER AT TOP (INCHES)

92-95 EXIT TEMPERATURE (°F)

96-98 EXIT VELOCITY (FT/SEC)

NOTE: ATTACH A BLOCK DIAGRAM OF PROCESS/PROCESS LINE, INDICATING NEW EQUIPMENT AS REPORTED ON THIS FORM AND ALL EXISTING EQUIPMENT, INCLUDING CONTROL DEVICES AND EMISSION POINTS.

13 INPUT MATERIALS [for this equipment only]
 IS ANY OF THIS DATA TO BE CONSIDERED CONFIDENTIAL? Y OR N

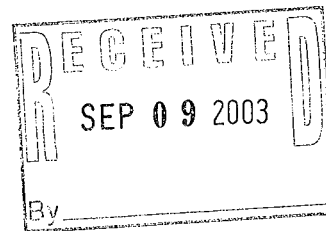
NAME	CAS NUMBER (if applicable)	PER HOUR	INPUT RATE		UNITS
			UNITS	PER YEAR	
1. _____	_____	_____	_____	_____	_____
2. _____	_____	_____	_____	_____	_____
3. _____	_____	_____	_____	_____	_____
4. _____	_____	_____	_____	_____	_____
5. _____	_____	_____	_____	_____	_____
6. _____	_____	_____	_____	_____	_____
7. _____	_____	_____	_____	_____	_____
8. _____	_____	_____	_____	_____	_____
9. _____	_____	_____	_____	_____	_____
TOTAL					

14 OUTPUT MATERIALS [for this equipment]
 PROCESS/PRODUCT STREAM

NAME	CAS NUMBER (if applicable)	PER HOUR	OUTPUT RATE		UNITS
			UNITS	PER YEAR	
1. _____	_____	_____	_____	_____	_____
2. _____	_____	_____	_____	_____	_____
3. _____	_____	_____	_____	_____	_____
4. _____	_____	_____	_____	_____	_____
5. _____	_____	_____	_____	_____	_____
6. _____	_____	_____	_____	_____	_____
7. _____	_____	_____	_____	_____	_____
8. _____	_____	_____	_____	_____	_____
9. _____	_____	_____	_____	_____	_____
TOTAL					

15 WASTE STREAMS - SOLID AND LIQUID

NAME	CAS NUMBER (if applicable)	PER HOUR	OUTPUT RATE		UNITS
			UNITS	PER YEAR	
1. _____	_____	_____	_____	_____	_____
2. _____	_____	_____	_____	_____	_____
3. _____	_____	_____	_____	_____	_____
4. _____	_____	_____	_____	_____	_____
5. _____	_____	_____	_____	_____	_____
6. _____	_____	_____	_____	_____	_____
7. _____	_____	_____	_____	_____	_____
8. _____	_____	_____	_____	_____	_____
9. _____	_____	_____	_____	_____	_____
TOTAL					



Air and Radiation Management Administration
(410) 537-3230

Form 5A: Summary of Demonstrations
for Meeting the Ambient Impact
Requirement (26.11.15.05) and the
T-BACT Requirement (26.11.15.06)

DO NOT WRITE IN THIS SPACE

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Company Name CTD Concrete, LLC
Cambridge Location
2757 Gypsy Hill Rd.
Cambridge MD 21613

1. Summary of T-BACT Demonstration: List all emission reduction options considered in determining T-BACT starting with the option that reduces emissions the most. Supporting documentation **must** be attached.

	EMISSION REDUCTION OPTION	% EMISSION REDUCTION	COSTS	
			CAPITAL	ANNUAL OPERATING
1.				
2.	N/A No emissions of toxic pollutants.			
3.				
4.				
5.				

2. Identify the emission reduction option selected as T-BACT and briefly explain why this is the best selection. Supporting documentation **must** be attached.



3. List screening levels and highest estimated off-site concentrations (ug/m³) resulting from **premises-wide allowable emissions** (1) of each Toxic Air Pollutant that is covered by the regulations and discharged from the installation or source applying for the permit. See the General Instructions for more detail. Supporting documentation **must** be attached.

TOXIC AIR POLLUTANT	CAS NUMBER	SCREENING LEVEL(S)		OFF-SITE CONCENTRATIONS	
		1-HR	8-HR	1-HR	8-HR

1	N/A					
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

If unable to use a Screening Analysis, check the box, and attach the Second Tier Analysis or Special Permit request to this form.

(1) **Premises** is defined as: "all the installations or other sources that are located on contiguous or adjacent properties and that are under the control of one person or under common control of a group of persons" (COMAR 26.11.15.01B (12)).

Allowable Emissions are defined as: "the maximum emissions a source or installation is capable of discharging after consideration of any physical or operational limitations required by this subtitle or by enforceable conditions included in an applicable air quality permit to construct, permit to operate, secretarial order, plan for compliance, consent agreement, or court order" (COMAR 26.11.15.01B (2)).