#### l: 84019

### Rec'd via email: 06/14/2023

Page 1 of 1 Last Revised: 12/10/2020

### READY-MIX CONCRETE NOTICE OF INTENT



COVERAGE NO.: MSG11 0350
(Coverage number will be completed by MDEQ staff.)



Company Name: Deep South Precast, LLC Facility Name: Main facility
Contact Name and Position: Drew St. John - Owner/President
Contact Area Code and Phone Number: ( 601 ) 405 - 7557 Contact Email: dstjohn@deepsouthprecast.com
Primary SIC Code: (3272) Primary NAICS Code (6-digit): (327390)
Physical Site Address - Street: 1663 West Peace Street
City: Canton State: MS Zip: 39046 County: Madison
Mailing Address - Street: 1663 West Peace Street
city: Canton State: MS Zip: 39046
Plant Maximum Production Rate: 5.0 cubic yards/hr Maximum production rate must be based on the manufacturer's maximum rated plant capacity on an hourly basis.
Will you own or operate a rock crusher at the site? Yes No If a third party will own/operate a rock crusher at your site, mark "No."
Rock Crusher Type / Rated Cumulative Capacity: Fixed:tons/hr Portable:tons/hr N/A
Will you operate stationary fuel burning equipment (e.g., engines, heaters, etc.) at the site? Oyes* No *If you marked "Yes" complete and submit the attached Fuel Burning Equipment Form & Compliance Plan.
Will wastewater from the process be discharged directly from the site? OYes No
Describe any wastewater treatment or indicate "None": Process water treated and reused in mixer. No site discharge Plans and specifications for treatment must be attached.
Proposed discharge frequency: zero see attached treatment equip. Proposed discharge volume: Zero gal/day
Provide the Latitude and Longitude of each wastewater outfall:  If no discharge, provide the coordinates of the plant entrance. Attach additional pages, if necessary.  Latitude: 32 deg 36 min 11.73 sec Longitude: 90 deg 4 min 35.06 sec
Nearest named receiving stream: Bear Creek
Is a SWPPP attached that meets the requirements of ACT5 of the RMCGP? ( Yes No
Is the SWPPP based on an Industry Generic SWPPP? Yes* No (*Must be most recent version.)
certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations. I further certify that the project continues as described in the original notice of intent. Also, I certify that I understand when coverage is terminated I am no longer authorized to emit regulated air emissions and discharge wastewater or storm water associated with industrial activity under this general permit. I understand that discharging pollutants associated with industrial activity to waters of the state without NPDES coverage is in violation of state law.  O.C  Printed Name

#### FUEL BURNING EQUIPMENT FORM & COMPLIANCE PLAN CURRENT COVERAGE NO.: MSG11

(Coverage number is located at the bottom left corner of your previous Certificate of Coverage)

#### **FUEL BURNING EQUIPMENT LIST**

List all stationary fuel burning equipment used at the facility. **Do not include** mobile fuel burning equipment (e.g., trucks or forklifts, welding equipment), portable engines that are moved about the site (e.g., pressure washers, welders), or portable engines that will not remain on the site more than 12 months (e.g., temporary generators).

Equipment Description	Emergency Use Only? (Yes/No) <sup>1</sup>	Fuel Type	Max. Heat Input/ Power Output	Manufacturer	Manufactured Date or Model Year
Example only:	1				
Engine for Generac generator	No	Diesel	578 hp	Perkins	2009
Heater for brick drying	No	Natural gas	6 MMBtu/hr	Sigma Thermal	2010
None					

#### **COMPLIANCE PLAN**

As required by ACT 3, Condition L-7(3) of the General Permit, complete this section if you will have one or more <u>non-emergency</u> stationary internal combustion engines at your site.

Equipment Description (should match description from table above)	Applicable federal standard <sup>1</sup>		Emission Standards <sup>2</sup>	Monitoring Requirements <sup>2</sup>
	40 CFR 60, Subpart IIII	40 CFR 63, Subpart ZZZZ	(List all that apply)	(List any testing, continuous monitoring and recordkeeping required)
Example: Engine for Generac generator		×	CO ≤ 49 ppmvd @15 % O <sub>2</sub>	Conduct CO performance test every 8,760 hrs or 3 yrs whichever comes first; maintain oxidation catalyst so pressure does not change by more than 2" water and catalyst inlet temp. is between 450 – 1,350 °F
None				
	TE	Г		

<sup>&</sup>lt;sup>1</sup> Only mark one. If subject to 40 CFR 60, Subpart IIII, then you have no requirements under 40 CFR 63, Subpart ZZZZ per 40 CFR 63.6590(c)(1).

<sup>&</sup>lt;sup>2</sup> EPA has developed a summary table of requirements for these rules at <a href="https://www.epa.gov/stationary-engines/guldance-and-bols-implementing-stationary-engine-requirements">https://www.epa.gov/stationary-engines/guldance-and-bols-implementing-stationary-engine-requirements</a>. For purposes of evaluating these requirements, your engine is considered a Non-Emergency Compression Ignition (CI) Internal Combustion Engine (ICE) located at an Area Source.

#### CO<sub>2</sub> pH Control and Process Tank System to treat Concrete Washout 18" Opening w/ Lid 475 Gal Square Concrete Cone Tank Washout 1.5" Ball Valve C Water Return Hose 1.5" Dla. (25ft max.) Water Inlet1.5" Ball Settled solids sit Valve at the bottom of the tank and are drained out by the valve and into the Filter Bag Bag CO<sub>2</sub> pH Control System CO<sub>2</sub> Gas Sludge Drain Straps Regulator Operation Switch "Cont. Run" "Off" "Timed Run" Ball Valve Sump or container that collects Inlet Hose 1.5" Dla. washout water (12ft max.) Settled Sollds drain into Filter CO<sub>2</sub> Gas Sump Pump with bag at end of float valve to fill treatment cycle Poly Tank with Concrete Washout 72" AMT Circulation 🚡 Pump Sump Pump to drain tank or add bottom Applied Technology Systems, Inc. Porta-Pit-AMT port and valve with 52"W x 45"D To Reuse Circulation hose to drain Cart Mount CO<sub>2</sub> pH Control System x 40" H Pump residual water Date: 4/5/23 Drawn By: Howard Obman Scale: Drawing # 4/23-1389

Sheet #

Project#

### THE ATSI CO2 SYSTEM



#### Carbon Dioxide Systems for every application

We can provide a wide variety of system options depending on your specific application to neutralize concrete washout water. We have systems designed specifically for ready mix, precast, job site, hydrodemolition, potable and wastewater treatment. These systems are very affordable with a base system price of below \$10,000.

### Better choice than strong liquid acids

Strong liquid acids like sulfuric and hydrochloric have a variety of issues including higher operating costs, easy to overshoot or undershoot the pH setpoint, dangerous to personnel and damaging to equipment. Any accidental acid spill may have to be reported. In addition, they can liberate and therefore increase heavy metals content in the washout water leading to possibly higher than acceptable discharge limits.

### Small footprint and designed for outdoor service

The ATSI CO2 system has a compact design of approx  $2 \text{ ft} \times 2 \text{ ft} \times 4 \text{ ft}$ . The combination of the CO2 gas cylinder and system can fit into a very small area at the back end of the final pit. The total weight is about 85 lbs and can be easily mounted next to a pit. In addition, the small size makes it an ideal system for mounting on a trailer or pickup and used at various sites. The control panel is NEMA 4X and the system is designed to work outdoors.

#### Installation is quick, easy and minimal maintenance

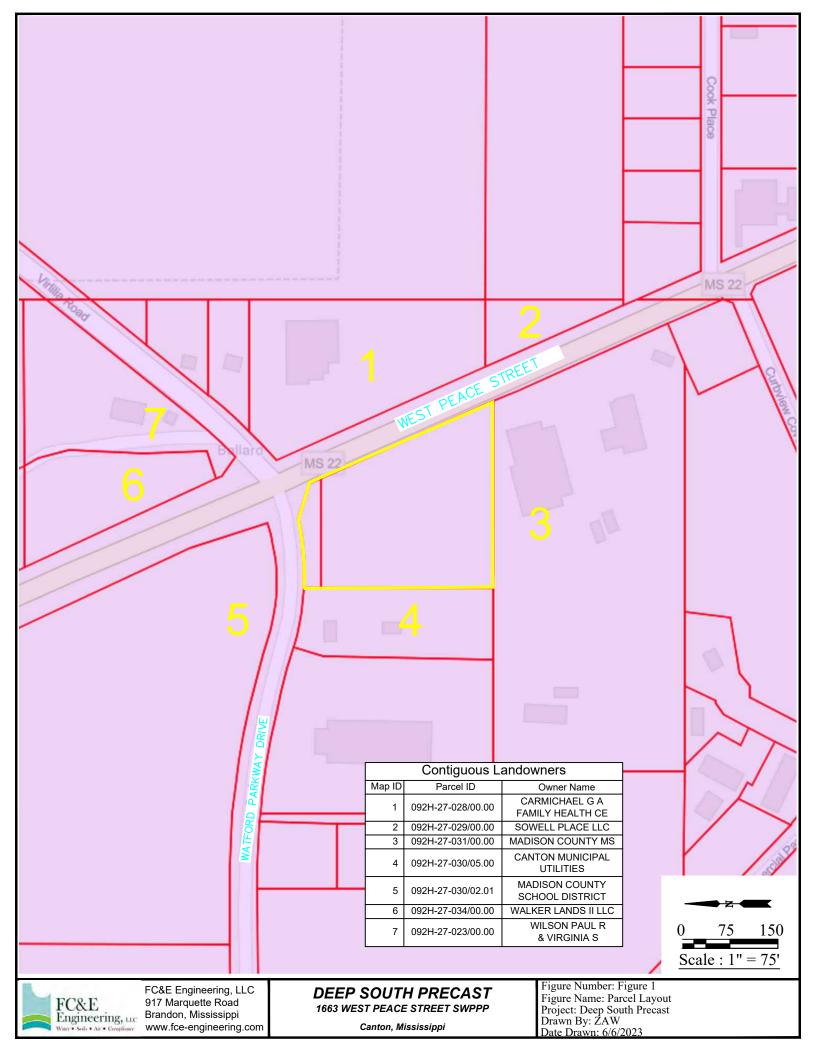
This system is placed next to the pit or tank to be treated. Connect 120 VAC power and a cylinder of CO2 and within a few minutes to a few hours a pit or tank can be pH adjusted for either reuse or disposal. Weekly maintenance on the system is less than 10 minutes for all but the most challenging processes. We make a simple system easy to operate and maintain.

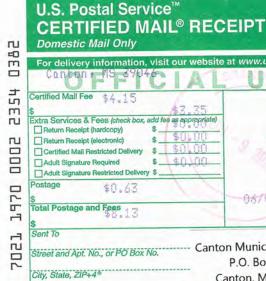
### Environmentally Friendly

Reducing the pH and making clear water are not the only benefits of treating with CO2 gas. Most cylinder CO2 is a captured waste gas. The reaction forming carbonates is mineralizing. Settling out the suspended solids in washout is sequestration. As a result, this process is an environmentally friendly. By not only cleaning the water but by capturing and mineralizing the CO2 gas.

#### **Technical Support and Customer References**

The systems are easy to install. However, not all pit systems and individual plant issues are the same. As a result, we can provide onsite technical support to optimize every application. We have resolved many customer washout and stormwater issues. Customer references are available upon request.











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(See ACT 2, Condition S-2 of General Permit for Notification Requirements)

Certified Mail No.:  Company Name: (as registered with the MS Secretary of State)		Date mailed:		
		Coverage No.: MSG11		
		tate)	(if currently permitted facility)	
located at		,	, <u></u>	County, MS
	Physical Street Address	City	County	
is proposin	g to:			
const	truct and operate a new ready-r	mix concrete	facility.	
	truct or modify air emission sou letic minor facility afterwards.	rce(s) and is	currently a synthetic minor	r facility or will become a
add a	additional process wastewater o	outfalls.		

This letter is to provide you notification of the proposed project and to provide you an opportunity to comment regarding environmental concerns about the project. The Mississippi Department of Environmental Quality (MDEQ) only has legal authority to consider environmental issues specified in the applicable laws and regulations. MDEQ does not have legal authority to consider matters outside of its jurisdiction; thus, comments regarding zoning, impacts, or other non-environmental related comments should be directed to the local zoning and planning authorities.





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