DHEC PROMOTE PROTECT PROSPE	R		Asso	NI ciated	PDES I with	Notic Gene Non	ce of I eral P metall SCG	ntent (NOI) ermit for Discharges lic Mineral Mining Facilities 730000
Submission of this Notice of Inten in a State location identified in this MUST BE INCLUDED WITH	t constitutes notice the form. Becoming a THIS FORM. AN	at the papermittee	rty identi obligates L OPER	fied in thi s such a d ATING	is form in lischarge t FEE OF	tends to l o comply \$100 IS	with all t REQUIF	zed by a NPDES permit issued for Nonmetallic Mineral Mining discharges erms and conditions of the permit. ALL NECESSARY INFORMATION RED FOR COVERAGE UNDER THIS PERMIT. See Instructions.
I. Site/Operator Inform	nation							
Name of the Mining or Pit S	Site: RDA Qua	arry						
Site Address: Not avai	lable				_	_		
Site City: Andrewss		_State:	SC	Sit	e Count	y: Wil	liams	burg Site ZIP (if available): 29510
Tax map # (list all): 45-3	60-002; 45	-335-	995;	45-3	860-0	01		
Company/Operator Name:	RDA, LLC							Phone: 910-385-4675
Company/Operator Name			0 P	P	) Box	527		Those
City: Newton Grove		t use P	St	tate: N	C ;	ZIP: 2	8366	□ Federal □ State Operator Status: □ Public ☑ Private
II. Site Contact Inform	ation							Phane 910-385-4675
Contact Name: Clark Woole	r							Pnone:
Contact Title:		07	-		-		199	
Mailing and Billing Addres	s: PO Box 5	27						
City: Newton Grove			State:_	NC	ZIP	283	66	Email (optional): cwooten@buysod.com
III. Site and Discharge	Information							
A. Materials to be Mined:	Limestone			(if m	aterial is	s mineo	solely :	as fill dirt, write <b>fill dirt</b> in the blank, not "sand" or "clay")
B. SIC or Activity Codes:	Primary: 1422				2nd:			3rd:4th:
(The primary SIC codes	s for nonmetallic	mining	g activit	ties are	in the 14	400 ser	ies, for e	example fill dirt pits have the SIC code of 1499. Please list
C Total number of cores the	he offected by	the min	ing acti		522.7			
D. Dees the site surrently i	bava Nonmatalli	A Minor	ing acti	ing Dia	aharga (	Conoral	Dormit	
If <b>Yes</b> complete this per	mit number <u>SCC</u>	373		ing Dise	; other	wise m	ark	
E. List any other NPDES	or ND Permit nu	mbers f	or the s	ite: <u>SC</u>			<u>S</u>	<u>C</u> ND
<ul> <li>F. Is this site exempt from</li> <li>G. Will this site discharge</li> <li>Will this site discharge</li> <li>Will this site discharge</li> <li>Will this site discharge</li> <li>Will this site discharge</li> </ul>	the Mining Act <sup>2</sup> mine dewatering a process-genera mine equipment suction dredge v	(see in ted was wash w vater (se	Yes, Re structionstewate vater (see instructionstewater)	eason fo ons for o <u>r</u> (see ir ee instru uctions	or exemp definition struction uctions for for defin	otion:	definitio nition)?	
<ul> <li>H. Provide the latitude and tributary to Saluda Rive</li> </ul>	l longitude (to th er). If any answe	e neare er in G.	st 15 se above i	conds) is "yes"	of the si , also lis	te, and st each	the nam outfall a	ne of the nearest receiving water body (ex: to unnamed nd the flow (in gallons per day).
Outfall Number	Flow	Latitude			Longitude			Dessiving Waters
or Storm Water	(gallons per day)	Deg	Min	Sec	Deg	Min	Sec	Receiving waters
001	2.5 MG/D	33	28	35	-79	38	45	Murray Swamp to Black River
	11.341164116	1 10 0						

DHEC 3559 (01/2011)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

I.	Describe the discharge flow path from the point it exits the system to the point it enters the receiving water (attach a separate sheet if more space is needed). Please note, if applicable, that easements have been obtained for any conveyances of the discharge not on property of the permittee, which are not waters of the State.
	Discharge from the site enters Murray Swamp at the 001 outfall. The path from Murray Swamp to Johnson's Swamp, Horse Pen Swamp to Black River. An easement is not necessary because the discharge will be directly into waters of the State.
J.	Locate the site and any discharges on a U.S. Geological Survey 7 <sup>1</sup> / <sub>2</sub> minute quad sheet. An 8 <sup>1</sup> / <sub>2</sub> x 11 copy of the portion of the map with the site and the discharge identified should be submitted with this NOI.
	USGS Map Quadrant Name: Trio 7.5' USGS Topographic Map
K.	Provide a map of the site that shows the following: a. The property boundary and all areas that will be affected by mining activities (i.e. the pits or excavation areas, overburden areas, material
	stockpiles, etc.) b. Location of planned access and haul roads on the area to be affected.
	c. Location and name (if appropriate) of streams, lakes, wetlands and existing drainage ditches within the area to be permitted. Use arrows to indicate direction of water flow in such streams and drainage ditches.
	d. A legend showing the name of applicant, name of the proposed mine, north arrow, county, scale, date of preparation and name and title of the person who prepared the site map.
L.	Describe all operations that contribute wastewater to the discharge and any treatment that is provided. Attach any existing data on the quality of the discharge.
	The primary component of the discharge will consist overwhelmingly of groundwater pumped from the pit to facilitate mining. Stormwater runoff where feasible will be routed into the pit for containment and treatment. Treating groundwater to remove sediment will begin at the groundwater pump station. The groundwater treatment prior to discharge will through a 9.9 acre sediment retention and water storage pond.
	The process plant will generate wastewater from the wash stone circuit. However, the wash water will be routed through a closed circuit series of clarification ponds to remove the limestone fines and recirculate the water to the process plant.
M.	Use the space below to bring to the Department's attention any additional information you feel should be considered in the permit decision. Attach an additional sheet if necessary.
	See attached narrative, RDA Quarry Mine Dewatering and Sediment Control.
IV.	Certification
l ce des	rtify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system igned to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who man-

age 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 fine and imprisonment for knowing violations.

Print Name: CLASK Wooten RDA	Title:ANANAGe
Signature: Man	Date: 6-11-18

## **RDA Quarry Mine Dewatering and Sediment Control** Revised June 11, 2018

The RDA Quarry will mine limestone to an approximate maximum depth of 65 feet with the average depth ranging from 50 to 55 feet. The mining process involves clearing the land of vegetation, stripping the overburden to expose the limestone and then drilling and blasting. To facilitate mining, groundwater will be lowered in the pit that subsequently will be discharged to waters of the State. To protect water quality of the receiving streams, RDA will use commonly used techniques that have provided satisfactory results at other mine sites.

For the RDA Quarry, an important sediment control strategy will be to limit the area of disturbance to what is necessary to conduct safe mining operations. The primary sediment control strategy to manage stormwater from disturbed land will be to route into the open pit. Silt fence/brush barrier, diversions, undisturbed buffer and revegetation will be used to control sediment from the berm's outside slope and other areas where it's not feasible to route stormwater into the pit. Routing stormwater into the pit will provide significant control in preventing sediment from leaving the mine area. As to be described in this narrative, the open pit will provide enhanced settling time to trap sediment and centralize the mine water discharges through one location for better sediment control (NPDES Outfall 001) that will require the mine water discharges to comply with NPDES numeric effluent limits.

The groundwater table at RDA Quarry site is approximately 5 feet below ground surface (Hydrogeologic Evaluation of the RDA, LLC Property, Williamsburg County, SC). To facilitate mining, the groundwater levels within the open pit will be lowered (pit dewatering). The extent of pit dewatering is yet to be determine but the options will range from all groundwater removed from the pit (dry mining) verses no groundwater removed from the pit ("total" wet mining). The extent of pit dewatering will be an operational consideration depending on several factors that include, but not limited to, safety, economic and environmental considerations. However, regardless of the extent of pit dewatering RDA, LLC will limit the groundwater drawdown beyond the open pit boundary to no deeper than 2 feet above the top of the limestone at the permit boundary or from an adjacent landowner property boundary who grants a waiver to allow the groundwater drawdown below the top of the limestone on their property (SC DHEC Application for Mine Operating Permit; Section V Safety, Ouestion 1 in Groundwater Withdrawals subsection).

Mining is scheduled to begin in Segment 6 (RDA Mine Map). The pump station will initially be located in Segment 6 to manage the groundwater levels. At the groundwater dewatering pump station, a sump will be created to provide a free standing pool of water. The sump with its free standing water pool also provides a sediment trap that will minimized or eliminated the dewatering pump's intake of sediment at the pump station. As mining advances, the free standing water pool will expand if the pit is not completely dewatered. The implication of the expanding free standing pool of water is ever increasing storage for stormwater and greater control over sediment within the open pit.

The groundwater and stormwater from the groundwater pump station will be directed to the sediment retention and water storage pond located adjacent to the process plant. The 9.9 acre pond will allow suspended sediment to settle before discharge. The water will exit the sediment basin by gravity and flow into Murray Swamp. Rip rap or other suitable devices will be use to reduce the velocity of the discharge into Murray Swamp.

The estimated maximum discharge rate from the RDA Quarry is 2.5 M gallons/day through the NPDES outfall. (This assumes a dry mine operation for all 53 acres of Segment 6.) Furthermore, it is anticipated that this maximum rate of discharge occurs during the first 5 - 7 years of mining. As the pit increases in size, the rate of groundwater inflow typically increases. However, as the pit increases in size the expected increase in groundwater inflow is expected to be mitigated by the backfilling of overburden and beginnings of reclamation on mined out sections of the pit. The backfilled overburden can "seal" the limestone stratum along the pit highwalls and reduce the rate of groundwater inflow into the pit. Furthermore, as the mine continues to mature, larger mined out sections of the pit will become available for reclamation and subsequent flooding. Any water from the groundwater dewatering station directed to a mined out section of the open pit suitable to impound water will reduce the amount of groundwater to be discharged through the NPDES Outfall 001 and provide recharge to the groundwater system.