

David Garrett & Associates

Engineering and Geology



October 13, 2011

Permit No.	Date	Document ID No.
41-17	November 15, 2011	15588

Mr. Ed Mussler, PE
NC DENR Solid Waste Section
1646 Mail Service Center
Raleigh, NC 27699-1646

RECEIVED
November 14, 2011 via an e-mail
Solid Waste Section
Raleigh Central Office

RE: Application for Permit to Operate
A-1 Sandrock, Inc. – Phase 1 Cell B Remainder
C&D Landfill and Processing Facility
Guilford County, NC (Permit #41-17)

Dear Mr. Mussler:

On behalf of A-1 Sandrock, I am pleased to present this application for authorization to operate the remaining portion of the second cell within Phase 1 (referred to as Phase 1B) of the referenced landfill. A Permit to Operate for the constructed portions of Phase 1B was authorized on February 28, 2011, based on an application submitted in November 2010 and a letter from me dated January 26, 2011 that verified the soil depths and soil types exposed in the completed portion of Phase 1B.

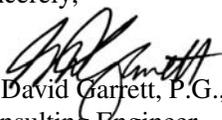
The total footprint authorized for operation, including Phase 1A and the completed portion of Phase 1B, was 5.72 acres. The Owner decided to leave a portion of Phase 1B unexcavated, whereas the mining operations were not keeping up with the needed disposal space in Phase 1B. The November 2010 application included an as-built drawing that showed completed base grades at the time within Phase 1B. Approval of this application will bring the total authorized disposal area to 7.26 acres.

This application is made based on a topographic survey of the remaining portions of Phase 1B, completed on September 20, 2011, and my inspection of the site to verify soil types on September 30, 2011. Based on my inspection, the subgrade within the upper two feet beneath finished base grades consists of soil types SM, SC, CL, ML, CH and/or MH, consistent with Solid Waste requirements. No bedrock was encountered during excavation of this portion of Phase 1B. All piezometers within Phase 1B have been abandoned.

Please note that no modification of the Operations Plan or Facility Plan are requested at this time. No known violations or enforcement actions are pending. The amount of financial assurance on file (based on the November 2010 application) is sufficient for 8.18 acres, which more than covers the entirety of Phases 1A and 1B. An adjustment may be required before operating in Phase 1C, now under construction. Please see the updated **Facility Plan** map (**Attachment 1**) and relevant site photographs (**Attachment 2**).

Please contact me if you have questions or if I can provide any additional data.

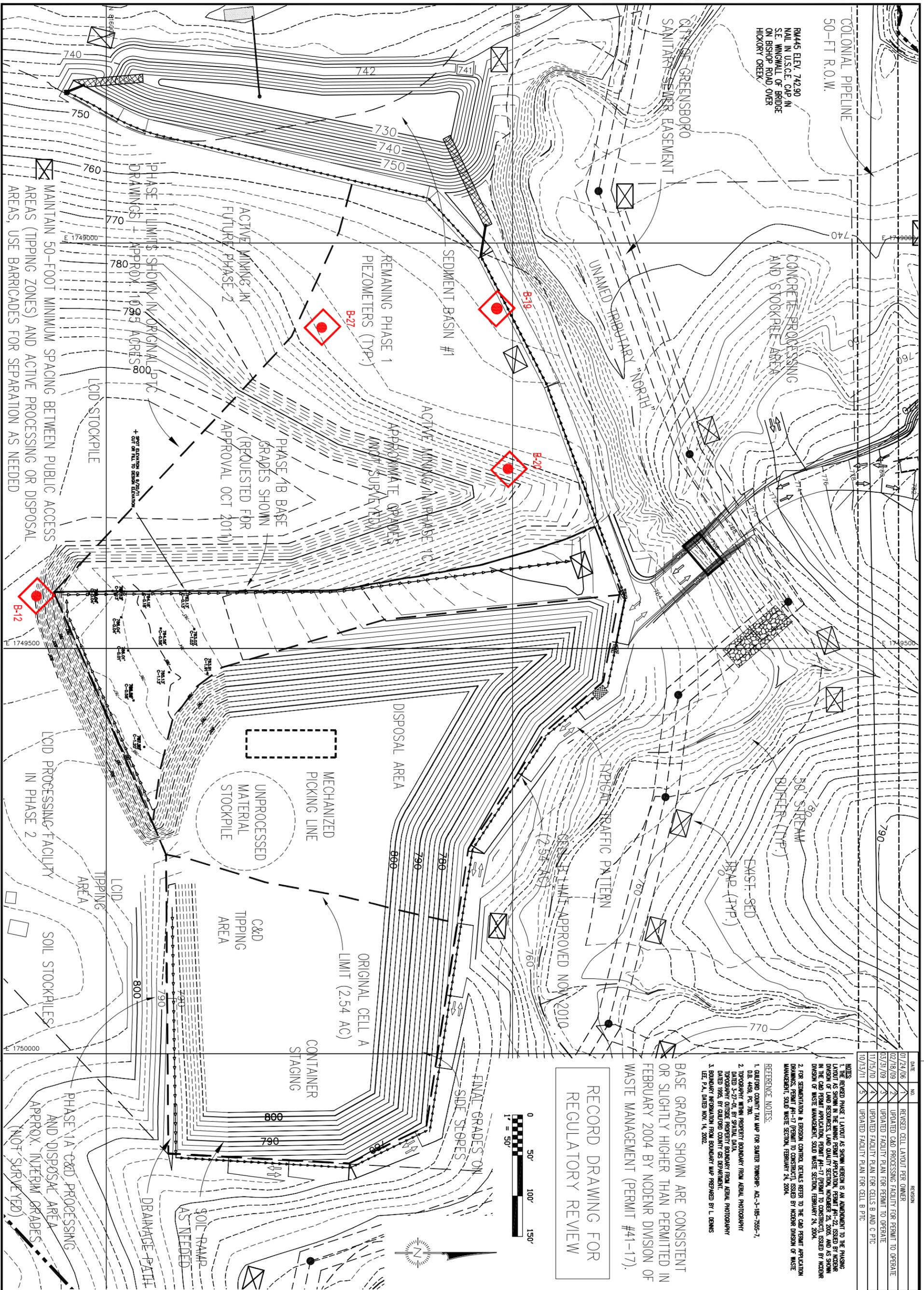
Sincerely,


G. David Garrett, P.G., P.E.
Consulting Engineer

cc: Ronnie Petty – A-1 Sandrock, Inc.
Mike McFeeley – A-1 Sandrock, Inc.

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Attachment 1
September 20, 2011 As-Built Drawing
(Updated Facility Plan Map)



COLONIAL PIPELINE
50-FT R.O.W.

R4445 ELEV. 742.90
NAIL IN U.S.G.C. CAP IN
SE. WINGWALL OF BRIDGE
ON BISHOP ROAD OVER
HICKORY CREEK

CITY OF GREENSBORO
SANITARY SEWER EASEMENT

CONCRETE PROCESSING
AND STOCKPILE AREA

UNNAMED TRIBUTARY "NORTH"

SEDIMENT BASIN #1

REMAINING PHASE 1
PIEZOMETERS (TYP.)

ACTIVE MINING IN
FUTURE PHASE 2

PHASE 1C APPROXIMATE GRADES
(NOT SURVEYED)

PHASE 1B BASE
GRADES SHOWN
(REQUESTED FOR
APPROVAL OCT 2011)

ACTIVE MINING IN PHASE 1C
APPROXIMATE GRADES
(NOT SURVEYED)

DISPOSAL AREA

MECHANIZED
PICKING LINE

UNPROCESSED
MATERIAL
STOCKPILE

C&D
TIPPING
AREA

ORIGINAL CELL A
LIMIT (2.54 AC)

CONTAINER
STAGING

FINAL GRADES ON
SIDE STORES



RECORD DRAWING FOR
REGULATORY REVIEW

BASE GRADES SHOWN ARE CONSISTENT
OR SLIGHTLY HIGHER THAN PERMITTED IN
FEBRUARY 2004 BY NCDENR DIVISION OF
WASTE MANAGEMENT (PERMIT #41-17).

NOTES: REPHASE 1A LIMIT AS SHOWN HEREON IS AN AGREEMENT TO THE PASTING
LIMITS SHOWN HEREON. THE ABOVE REPHASE 1A LIMITS WERE ISSUED BY NCDENR
DIVISION OF LAND RESOURCES, LAND QUALITY SECTION, NOVEMBER 25, 2005, AND AS SHOWN
IN THE CAD PERMIT APPLICATION, PERMIT #41-17 (PERMIT TO CONSTRUCT), ISSUED BY NCDENR
DIVISION OF WASTE MANAGEMENT, SOLID WASTE SECTION, FEBRUARY 24, 2004.

2. FOR SEDIMENTATION & EROSION CONTROL DETAILS REFER TO THE CAD PERMIT APPLICATION
DRAWINGS, PERMIT #41-17 (PERMIT TO CONSTRUCT), ISSUED BY NCDENR DIVISION OF WASTE
MANAGEMENT, SOLID WASTE SECTION, FEBRUARY 24, 2004.

REFERENCE NOTES:

1. GUILFORD COUNTY TAX MAP FOR SUMNER TOWNSHIP, AC-3-185-1855-7.
2. U.S. 4554 F&S, 704.
3. TOPOGRAPHY WITH PROPERTY BOUNDARY FROM AERIAL PHOTOGRAPHY
TAKEN 12/27/05. SHOWN AS BOUNDARY FROM AERIAL PHOTOGRAPHY
DATED 1985, BY GUILFORD COUNTY GIS DEPARTMENT.
4. BOUNDARY AGREEMENT FROM BOUNDARY MAP PREPARED BY L. DENNIS
LEE, P.E., DATED NOV. 14, 2002.

DATE	NO.	REVISION
01/24/06	1	REVISED CELL LAYOUT PER OWNER
02/18/06	2	UPDATED CAD PROCESSING FACILITY FOR PERMIT TO OPERATE
03/21/06	3	UPDATED FACILITY PLAN FOR PERMIT TO OPERATE
11/05/06	4	UPDATED FACILITY PLAN FOR CELLS B AND C PTC
10/13/11	5	UPDATED FACILITY PLAN FOR CELL B PTC

<p>DRAWING TITLE: FACILITY LAYOUT FOR PHASE 1 DISPOSAL AREA AND RECYCLING FACILITY</p>	<p>PROJECT TITLE: A-1 SANDROCK SOUTH MINE OPERATIONS AND CLOSURE GUILFORD COUNTY, N.C. SOLID WASTE PERMIT #41-17</p>		<p>David Garrett, PG, PE. Engineering and Geology 5105 Harbour Towne Drive, Raleigh, North Carolina 27604 Email: david_garrett_pg@mindspring.com 919-231-1818 (Office and Fax) 919-418-4375 (mobile)</p>
<p>DESIGNED BY: S.D.G. CHECKED BY: A.M.H. PROJECT NO.: SANDROCK-2 DATE: FEBRUARY 2009</p>	<p>SCALE: AS SHOWN FILE NAME: SANDROCK-0202 SHEET NO.: 3B DRAWING NO.: E1B</p>		

Attachment 2
September 30, 2011 Site Photos



Photo 1 – approach to Phase 1B from scale house, looking south, Phase 1A to left



Photo 2 – completed north slope of Phase 1A, recently seeded and mulched



Photo 3 – looking south into Phase 1B, surface water collected in temporary sump



Photo 4 – interim slope of Phase 1B, looking southeast, base grades in foreground



Photo 5 – C&D processing facility within Phase 1B, , looking east, base grades in foreground



Photo 6 – LCID processing area, south of Phase 1B, looking south



Photo 7 – Phase 1B edge marker, looking north toward sump, rocky zone in Phase 1C to left



Photo 8 – boulders in soil exposed within Phase 1B, easily excavated with trackhoe



Photo 9 – red soils of diabase dike within Phase 1C, near test boring B-20, looking north



Photo 10 – looking south into Phase 1B, interim slope to left, diabase in Phase 1C to right