



REGIONAL REVIEW NOTICE

Atlanta Regional Commission • 40 Courtland Street NE, Atlanta, Georgia 30303 • ph: 404.463.3100 • fax: 404.463.3105 • www.atlantaregional.com

DATE: May 6 2013

ARC REVIEW CODE: R1305061

TO: Mayor Randal Mills
ATTN TO: Marvin Flannigan, Director of Planning and Inspection Services
FROM: Douglas R. Hooker, Executive Director
RE: Development of Regional Impact Review

The Atlanta Regional Commission (ARC) has completed a preliminary regional review of the following Development of Regional Impact (DRI). ARC reviewed the DRI with regard to conflicts to regional plans, goals, and policies and impacts it might have on the activities, plans, goals, and policies of other local jurisdictions as well as state, federal, and other agencies. The preliminary report does not address whether the DRI is or is not in the best interest of the local government.

Name of Proposal: Conyers ReNewable Power

Review Type: DRI

Submitting Local Government: City of Conyers

Date Opened: May 6 2013

Deadline for Comments: May 21 2013 **Date to Close:** May 26 2013

Description: This project is a proposed Anaerobic Digestion Plan, located on 8 acres in the City of Conyers along old Covington Road. The facility will process pre and post-consumer waste and recycle the material into biogas.

PRELIMINARY COMMENTS:

Regional Context:

According to the ARC Unified Growth Policy Map (UGPM) and the Regional Development Guide (RDG), the proposed Conyers ReNewable Power is located within the Developing Suburbs area of the region.

The RDG states that Developing Suburbs are areas in the region where suburban development has occurred and the conventional development pattern is present but not set. These areas are characterized by limited commercial and residential development. These areas represent the extent of the urban service area, and the region's first attempts at suburban smart growth can be found in these areas. The region should strive to develop these areas in a more sustainable way than the existing development model. To this end, there is a need for additional preservation of critical environmental locations, as well as agricultural and forest uses adjacent to rural areas.

Limited existing infrastructure in these areas will constrain the amount of additional growth that is possible. Some transportation improvements may be needed within these developing suburbs, but care should be taken not to spur unwanted growth.

Comments:

The proposed development is located in an area that is rapidly changing and is becoming dominated by industrial uses. It is important to promote compatible uses where possible, as well as identify and mitigate potential land use conflicts as the area continues to develop.

The applicant has indicated that a majority of the truck trips bringing material to the site will come from a neighboring property via direct driveway access between the two sites. This direct access limits the amount of truck trips using the surrounding road network, thus limiting the traffic impacts.

See additional comments from ARC environmental staff.

THE FOLLOWING LOCAL GOVERNMENTS AND AGENCIES RECEIVED NOTICE OF THIS REVIEW:

ARC LAND USE PLANNING
ARC DATA RESEARCH
GEORGIA DEPARTMENT OF NATURAL RESOURCES
ROCKDALE COUNTY

ARC TRANSPORTATION PLANNING
ARC AGING DIVISION
GEORGIA DEPARTMENT OF TRANSPORTATION

ARC ENVIRONMENTAL PLANNING
GEORGIA DEPARTMENT OF COMMUNITY AFFAIRS
GEORGIA REGIONAL TRANSPORTATION AUTHORITY

If you have any questions regarding this review, Please contact Jon Tuley at (404) 463-3307 or jtuley@atlantaregional.com. This finding will be published to the ARC website.
The ARC review website is located at: <http://www.atlantaregional.com/landuse>.



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DEVELOPMENT OF REGIONAL IMPACT REQUEST FOR COMMENTS

Instructions: The project described below has been submitted to this Regional Development Center for review as a Development of Regional Impact (DRI). A DRI is a development of sufficient project of sufficient scale or importance that it is likely to have impacts beyond the jurisdiction in which the project is actually located, such as adjoining cities or neighboring counties. We would like to consider your comments on this proposed development in our DRI review process. Therefore, please review the information about the project included on this form and give us your comments in the space provided. The completed form should be returned to the RDC on or before the specified return deadline.

Preliminary Findings of the RDC: **Conyers ReNewable Power** *See the Preliminary Report.*

Comments from affected party (attach additional sheets as needed):

Individual Completing Form:

Local Government:

Department:

Telephone: ()

Signature:

Date:

Please return this form to:

Jon Tuley, Atlanta Regional Commission
40 Courtland Street NE
Atlanta, GA 30303
Ph. (404) 463-3307 Fax (404) 463-3254
jtuley@atlantaregional.com

Return Date: *May 21 2013*

ARC STAFF NOTICE OF REGIONAL REVIEW AND COMMENT FORM

DATE: May 6 2013

ARC REVIEW CODE:

TO: ARC Land Use, Environmental, Transportation, Research, and Aging Division Chiefs

FROM: Jon Tuley, Extension: 3-3307

Reviewing staff by Jurisdiction:

Land Use: Tuley, Jon

Transportation: Willis, Marshall

Environmental: Santo, Jim

Research: Skinner, Jim

Aging: Rader, Carolyn

Name of Proposal: Conyers ReNewable Power

Review Type: Development of Regional Impact

Description: This project is a proposed Anaerobic Digestion Plan, located on 8 acres in the City of Conyers along old Covington Road. The facility will process pre and post-consumer waste and recycle the material into biogas.

Submitting Local Government: City of Conyers

Date Opened: May 6 2013

Deadline for Comments: May 21 2013

Date to Close: May 26 2013

Response:

- 1) ☐ Proposal is CONSISTENT with the following regional development guide listed in the comment section.
- 2) ☐ While neither specifically consistent nor inconsistent, the proposal relates to the following regional development guide listed in the comment section.
- 3) ☐ While neither specifically consistent nor inconsistent, the proposal relates to the following regional development guide listed in the comment section.
- 4) ☐ The proposal is INCONSISTENT with the following regional development guide listed in the comment section.
- 5) ☐ The proposal does NOT relate to any development guide for which this division is responsible.
- 6) ☐ Staff wishes to confer with the applicant for the reasons listed in the comment section.

COMMENTS:

CONYERS RENEWABLE POWER WASTE TREATMENT FACILITY DRI
City of Conyers
Natural Resources Division Review Comments
April 30, 2013

Watershed Protection and Stream Buffers

The property is located in the Yellow River watershed, which is not a water supply watershed for any jurisdiction in the Atlanta Region or the Metropolitan North Georgia Water Planning District. The USGS coverage for the project area shows no streams on or adjacent to the project site. Any unmapped streams on the property may be subject to the City of Conyers Stream Buffer Ordinance, which requires a 75-foot buffer along both banks of affected streams. Any state waters on the property are subject to the State 25-foot Erosion and Sedimentation Act buffer.

Stormwater / Water Quality

The project should adequately address the impacts of the proposed development on stormwater runoff and downstream water quality. During construction, the project should conform to the relevant state and federal erosion and sedimentation control requirements. After construction, water quality will be impacted due to polluted stormwater runoff. ARC has estimated the amount of pollutants produced after the construction of the entire proposed project as presented on the submitted site plan. These estimates are based on some simplifying assumptions for typical pollutant loading factors (lbs/ac/yr). The loading factors are based on the results of regional storm water monitoring data from the Atlanta Region with impervious areas based on estimated averages for land uses in the Atlanta Region. Actual pollutant loads will vary with the actual impervious area and percentage. The following tables summarize the results of the analysis:

Estimated Pounds of Pollutants Per Year

Land Use	Land Area (ac)	Total Phosphorus	Total Nitrogen	BOD	TSS	Zinc	Lead
Heavy Industrial	8.00	11.60	153.92	1024.00	6360.00	13.28	1.68
TOTAL	8.00	11.60	153.92	1024.00	6360.00	13.28	1.68

Total Impervious = 41%

In order to address post-construction stormwater runoff quality, the project should implement stormwater management controls (structural and/or nonstructural) as found in the Georgia Stormwater Management Manual (www.georgiastormwater.com) and meet the stormwater management quantity and quality criteria outlined in the Manual. Where possible, the project should utilize the stormwater better site design concepts included in the Manual.



Anaerobic Digestion Information First Generation Energy, LLC

CONFIDENTIAL

March 2013

TECHNOLOGY OVERVIEW:

EISENMANN's proprietary *BIOGAS-GW High Solids Anaerobic Digestion* process technology efficiently converts organic waste into methane and carbon dioxide rich biogas without the use of fossil fuels. These process outputs can be used in place of natural gas in the production of electricity, as a transportation fuel alternative, and as a nutrient-rich soil amendment for commercial and residential agricultural and horticultural applications. Almost any organic material can be processed using anaerobic digestion, including biodegradable waste materials such as waste paper, grass clippings, leftover food, sewage and animal waste.

The process of anaerobic digestion takes place naturally in "anaerobic environments" (e.g., landfills), where necessary microorganisms are present to break down waste material. However, without the institution of recovery system to capture the gas outflow, all valuable biogas is lost into the atmosphere. These outflows can also result in the emission of harmful greenhouse gases that are damaging to the environment.

As diagramed below, the GA Plant will consist of the following:

- 4 Port Receiving Building
- 4 Modular Plug Flow Digesters (264,200 gallons tanks each) for processing organic waste
- 1 Post Digester (1,300,000 gallons) for storing and processing biogas and liquid soil amendment for shipment
- Solids Separation Equipment and CHP Units

Figure 5: 3D Isometric Site Rendering:

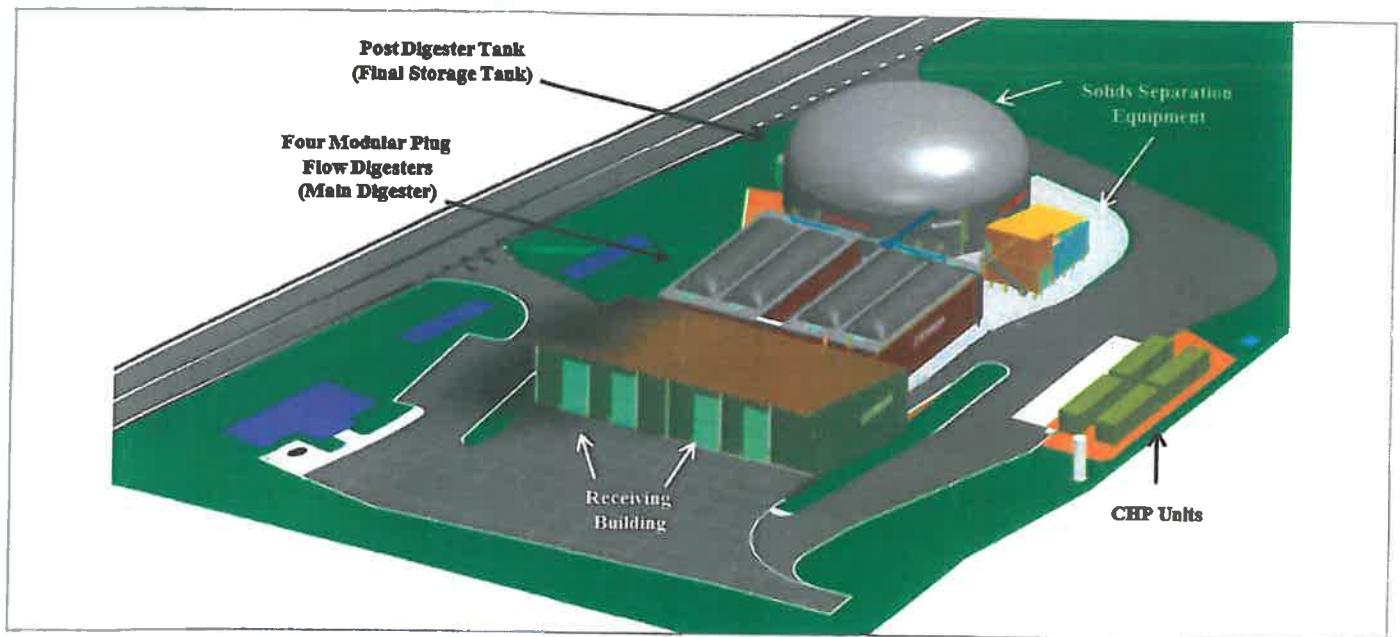
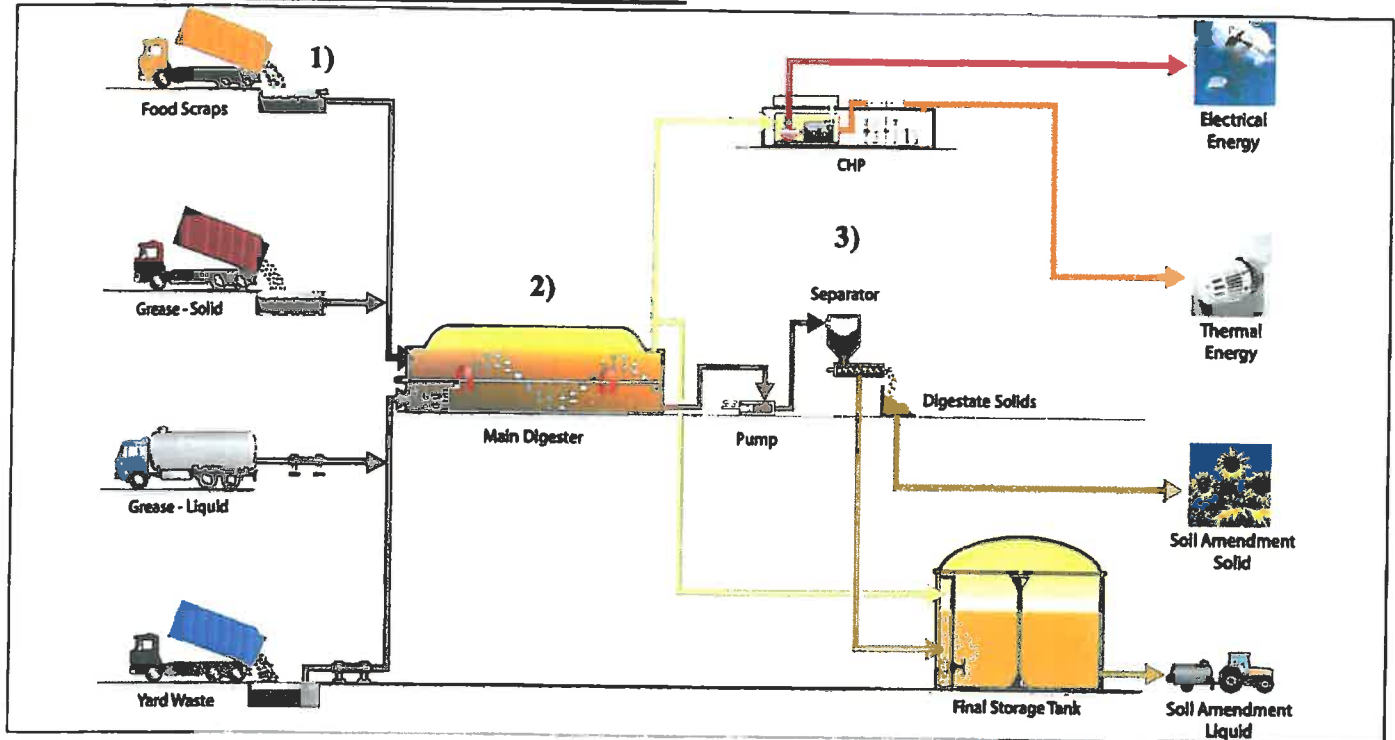


Figure 12: Waste-to-Energy Process Flow Diagram:



Process Flow Summary:

- 1) Green waste substrates are delivered via truck to the *Receiving Building*, which is equipped with seven receiving areas, including: two liquid material tanks with hose connections; two grease trap receiving bins; two food waste receiving bins; and one yard waste receiving bin. The Receiving Building provides ample storage capacity so multiple trucks can unload their waste directly into the bin at the same time. **The waste receiving system is critical during EISENMANN's proprietary process, since it screens, prepares and blends the substrates in order to provide the desired feedstock for the Main Digesters.** The system's bins and tanks utilize load cells and flow meters to regulate the appropriate amount of material into each Main Digester. The digesters are continuously fed with organic material during a typical operating shift.
- 2) In the Main Digester, the material is mixed to ensure homogenous blending of substrates and microbial culture while assisting in the release of biogas. Hot water is circulated through heating coils in the Main Digester to maintain an appropriate process temperature. The digester vessel is properly sized in order to achieve the necessary residence time for the optimal production of biogas.
- 3) The mixture leaving the Main Digesters is pumped to the Solid / Liquid Separator Unit. Solids are pressed into a wet cake and the remaining liquid stream is directed to the *Post Digester Tank* (or the *Final Storage Tank*). The Post Digester Tank is designed with a double membrane roof so it can yield ample biogas storage capacity. The biogas quality and flow is constantly monitored and tracked to ensure consistency in the mix. The biogas travels from the Post Digester Tank to a condensate trap before being routed to the *Combined Heat and Power Units (CHP Units)*. The CHP Units convert the biogas to electrical power, which is sent to the utility grid and/or thermal energy. A portion of the biogas is scrubbed to pipeline quality and injected into the natural gas pipeline or compressed and marketed as Renewable Compressed

Natural Gas (RNG) for use as transportation fuel. Any condensed moisture from the biogas is captured in the trap and re-directed back to the Post Digester Tank for further use.



Mrs. Laura Beall, AICP
Georgia Regional Transportation Authority
245 Peachtree Center Avenue, NE Suite 800
Atlanta, Georgia 30303-1223

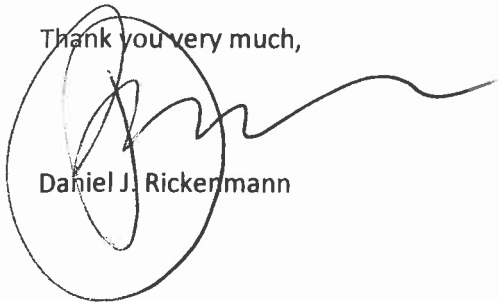
RE: Conyers Renewable Power Facility Site

Mrs. Beall,

I hope this finds you well. It was a pleasure to meet you at Atlanta Regional Commission office this passed Thursday.

As I stated at our meeting, the estimated truck traffic count to our facility is anticipated to have between 12-15 trucks a day, on a six day week schedule. There will be 5 employees at the site during the work week, but with varied schedules resulting in roughly 3(three) employees being onsite at any given time. I have attached a sketch site plan along with this letter for your file. Please feel free to contact me at 803.920.9541 , if any additional information is needed. Thank you in advance for all your time and efforts on behalf of our project in the City of Conyers.

Thank you very much,



Daniel J. Rickermann

Developments of Regional Impact

[DRI Home](#)[DRI Rules](#)[Thresholds](#)[Tier Map](#)[FAQ](#)[Apply](#)[View Submissions](#)[Login](#)**DRI #2346**

DEVELOPMENT OF REGIONAL IMPACT Initial DRI Information

This form is to be completed by the city or county government to provide basic project information that will allow the RDC to determine if the project appears to meet or exceed applicable DRI thresholds. Refer to both the [Rules for the DRI Process](#) and the [DRI Tiers and Thresholds](#) for more information.

Local Government Information

Submitting Local Government: Conyers

Individual completing form: Marvin D. Flanigan

Telephone: 770-929-4280

E-mail: marvin.flanigan@conyersga.com

*Note: The local government representative completing this form is responsible for the accuracy of the information contained herein. If a project is to be located in more than one jurisdiction and, in total, the project meets or exceeds a DRI threshold, the local government in which the largest portion of the project is to be located is responsible for initiating the DRI review process.

Proposed Project Information

Name of Proposed Project: Conyers ReNewable Power

Location (Street Address, GPS Coordinates, or Legal Land Lot Description): 1718 Old Covington Road Land Lot 324 16th District

Brief Description of Project: This will be an Anaerobic Digester Facility that will convert urban organics into bio-gas that will then be converted into electricity through a combined heat and power unit that will deliver electricity to the grid.

Development Type:☐ (not selected)☐ Office☐ Commercial☐ Wholesale & Distribution☐ Hospitals and Health Care Facilities☐ Housing☐ Industrial☐ Hotels☐ Mixed Use☐ Airports☐ Attractions & Recreational Facilities☐ Post-Secondary Schools☒ Waste Handling Facilities☐ Quarries, Asphalt & Cement Plants☐ Wastewater Treatment Facilities☐ Petroleum Storage Facilities☐ Water Supply Intakes/Reservoirs☐ Intermodal Terminals☐ Truck Stops☐ Any other development types

If other development type, describe:

DRI Initial Information Form

Project Size (# of units, floor area, etc.):	This facility will process 48,000 metric tons of organic material that will in return produce roughl	
Developer:	First Generation Energy, LLC John S. Hill, Principal	
Mailing Address:	P.O. Box 6353	
Address 2:		
	City:Columbia State: SO Zip:29260	
Telephone:	803-728-5200	
Email:	jhill@firstgenenergy.com	
Is property owner different from developer/applicant?	<input type="radio"/> (not selected) <input type="radio"/> Yes <input checked="" type="radio"/> No	
If yes, property owner:		
Is the proposed project entirely located within your local government's jurisdiction?	<input type="radio"/> (not selected) <input checked="" type="radio"/> Yes <input type="radio"/> No	
If no, in what additional jurisdictions is the project located?		
Is the current proposal a continuation or expansion of a previous DRI?	<input type="radio"/> (not selected) <input type="radio"/> Yes <input checked="" type="radio"/> No	
If yes, provide the following information:	Project Name:	
	Project ID:	
The initial action being requested of the local government for this project:	<input type="checkbox"/> Rezoning <input type="checkbox"/> Variance <input type="checkbox"/> Sewer <input type="checkbox"/> Water <input checked="" type="checkbox"/> Permit <input type="checkbox"/> Other	
Is this project a phase or part of a larger overall project?	<input type="radio"/> (not selected) <input checked="" type="radio"/> Yes <input type="radio"/> No	
If yes, what percent of the overall project does this project/phase represent?	75 Percent	
Estimated Project Completion Dates:	This project/phase: September 2014 Overall project: September 2016	
<hr/> <hr/>		
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Developments of Regional Impact

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DRI #2346

DEVELOPMENT OF REGIONAL IMPACT Additional DRI Information	
This form is to be completed by the city or county government to provide information needed by the RDC for its review of the proposed DRI. Refer to both the Rules for the DRI Process and the DRI Tiers and Thresholds for more information.	
Local Government Information	
Submitting Local Government:	Conyers
Individual completing form:	Marvin D. Flanigan
Telephone:	770-929-4280
Email:	marvin.flanigan@conyersga.com
Project Information	
Name of Proposed Project:	Conyers ReNewable Power
DRI ID Number:	2346
Developer/Applicant:	First Generation Energy, LLC John S. Hill, Principal
Telephone:	803-728-5200
Email(s):	jhill@firstgenenergy.com
Additional Information Requested	
Has the RDC identified any additional information required in order to proceed with the official regional review process? (If no, proceed to Economic Impacts.)	<input type="radio"/> (not selected) <input type="radio"/> Yes <input checked="" type="radio"/> No
If yes, has that additional information been provided to your RDC and, if applicable, GRTA?	<input checked="" type="radio"/> (not selected) <input type="radio"/> Yes <input type="radio"/> No
If no, the official review process can not start until this additional information is provided.	
Economic Development	
Estimated Value at Build-Out:	\$28,000,000
Estimated annual local tax revenues (i.e., property tax, sales tax) likely to be generated by the proposed development:	\$145,000
Is the regional work force sufficient to fill the demand created by the proposed project?	<input type="radio"/> (not selected) <input checked="" type="radio"/> Yes <input type="radio"/> No
Will this development displace any existing uses?	<input type="radio"/> (not selected) <input type="radio"/> Yes <input checked="" type="radio"/> No
If yes, please describe (including number of units, square feet, etc):	
Water Supply	

DRI Additional Information Form

Name of water supply provider for this site:	Rockdale County Water Resources
What is the estimated water supply demand to be generated by the project, measured in Millions of Gallons Per Day (MGD)?	Estimated water usage is 20,000 gallons per day.
Is sufficient water supply capacity available to serve the proposed project?	<input type="radio"/> (not selected) <input checked="" type="radio"/> Yes <input type="radio"/> No
If no, describe any plans to expand the existing water supply capacity:	
Is a water line extension required to serve this project?	<input type="radio"/> (not selected) <input type="radio"/> Yes <input checked="" type="radio"/> No
If yes, how much additional line (in miles) will be required?	
Wastewater Disposal	
Name of wastewater treatment provider for this site:	Rockdale County Water Resources
What is the estimated sewage flow to be generated by the project, measured in Millions of Gallons Per Day (MGD)?	Proposed facility will have two restrooms and showers.
Is sufficient wastewater treatment capacity available to serve this proposed project?	<input type="radio"/> (not selected) <input checked="" type="radio"/> Yes <input type="radio"/> No
If no, describe any plans to expand existing wastewater treatment capacity:	
Is a sewer line extension required to serve this project?	<input type="radio"/> (not selected) <input type="radio"/> Yes <input checked="" type="radio"/> No
If yes, how much additional line (in miles) will be required?	
Land Transportation	
How much traffic volume is expected to be generated by the proposed development, in peak hour vehicle trips per day? (If only an alternative measure of volume is available, please provide.)	Traffic volume is expected at 10 to 15 trucks per day and 5 employee vehicles per day.
Has a traffic study been performed to determine whether or not transportation or access improvements will be needed to serve this project?	<input type="radio"/> (not selected) <input type="radio"/> Yes <input checked="" type="radio"/> No
Are transportation improvements needed to serve this project?	<input type="radio"/> (not selected) <input type="radio"/> Yes <input checked="" type="radio"/> No
If yes, please describe below:	
Solid Waste Disposal	
How much solid waste is the project expected to generate annually (in tons)?	Less than 500 tons annually.
Is sufficient landfill capacity available to serve this proposed project?	<input type="radio"/> (not selected) <input checked="" type="radio"/> Yes <input type="radio"/> No
If no, describe any plans to expand existing landfill capacity:	
Will any hazardous waste be generated by the development?	<input type="radio"/> (not selected) <input type="radio"/> Yes <input checked="" type="radio"/> No
If yes, please explain:	
Stormwater Management	
What percentage of the site is projected to be impervious surface once the proposed development has been constructed?	An estimated 1.5 acres (19%) will be dedicated to impervious surface.

Describe any measures proposed (such as buffers, detention or retention ponds, pervious parking areas) to mitigate the project's impacts on stormwater management: Proposed development shall comply with the drainage requirements as specified in both the City of Conyers Subdivision Regulations and the Soil Erosion and Water Quality Regulations.

Environmental Quality

Is the development located within, or likely to affect any of the following:

1. Water supply watersheds?	<input type="radio"/> (not selected) <input type="radio"/> Yes <input checked="" type="radio"/> No
2. Significant groundwater recharge areas?	<input type="radio"/> (not selected) <input type="radio"/> Yes <input checked="" type="radio"/> No
3. Wetlands?	<input type="radio"/> (not selected) <input type="radio"/> Yes <input checked="" type="radio"/> No
4. Protected mountains?	<input type="radio"/> (not selected) <input type="radio"/> Yes <input type="radio"/> No
5. Protected river corridors?	<input type="radio"/> (not selected) <input type="radio"/> Yes <input checked="" type="radio"/> No
6. Floodplains?	<input type="radio"/> (not selected) <input type="radio"/> Yes <input checked="" type="radio"/> No
7. Historic resources?	<input type="radio"/> (not selected) <input type="radio"/> Yes <input checked="" type="radio"/> No
8. Other environmentally sensitive resources?	<input type="radio"/> (not selected) <input type="radio"/> Yes <input checked="" type="radio"/> No

If you answered yes to any question above, describe how the identified resource(s) may be affected:

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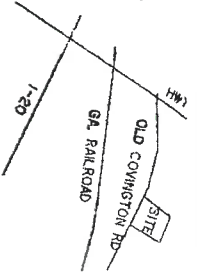


April 23, 2013
Project No. 131372112



+/- 8 Acre Site
Located Near the Intersection of
Old Covington Road and Aldrin Drive
City of Conyers, Rockdale County, Georgia

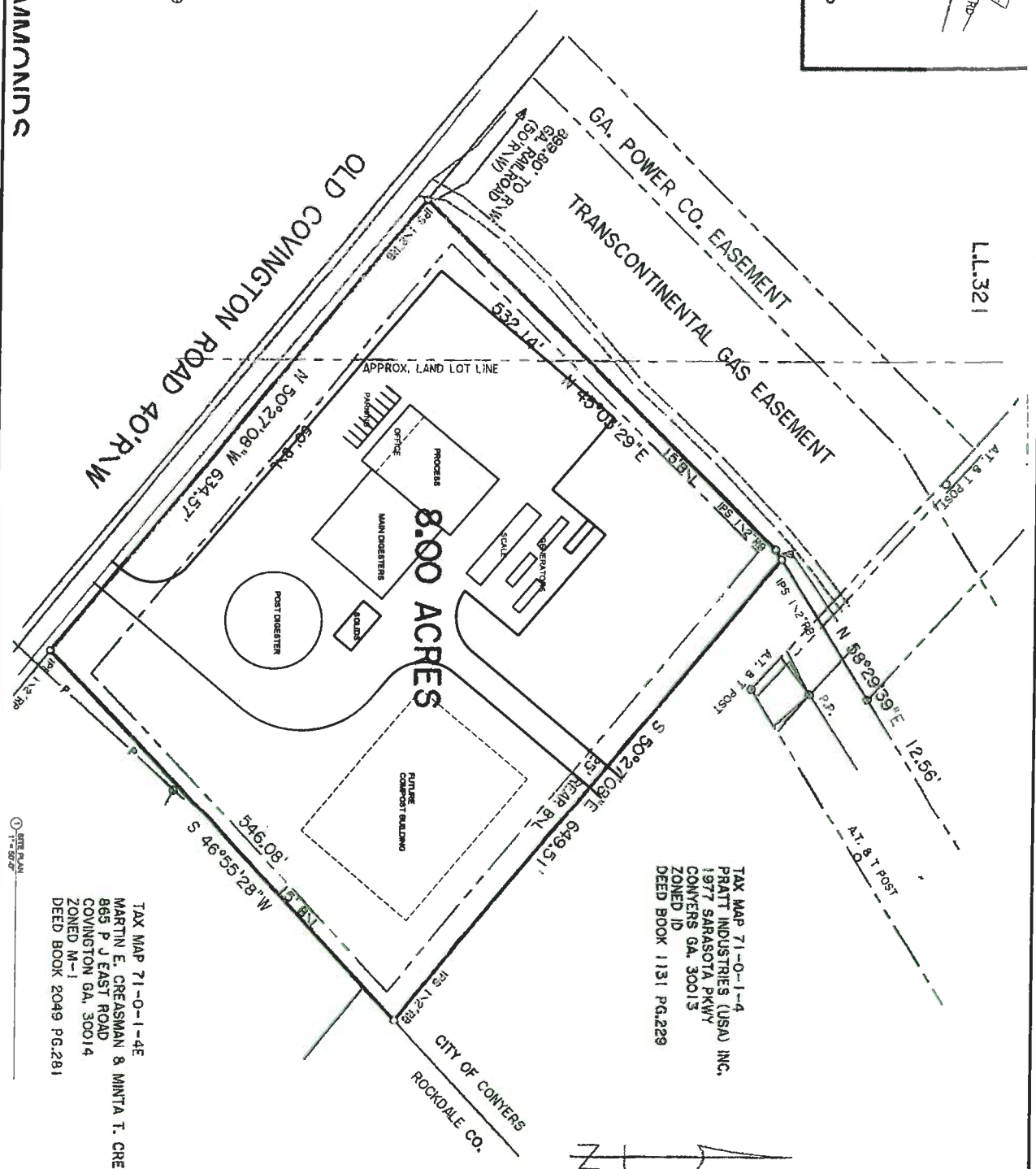
LOCATION MAP



PURCHASER:
FRED HAMMONDS
877 MAIN ST.
CONYERS GA. 30012

OWNER:
PRAATT INDUSTRIES, INC.
1877 SARASOTA PKWY,
CONYERS GA. 30013
ZONED ID
DEED BOOK 1131 PG.229

FINAL PLAT FOR:
FRED HAMMONDS



TAX MAP 71-0-1-4
PRAATT INDUSTRIES (USA) INC.
1877 SARASOTA PKWY
CONYERS GA. 30013
ZONED ID
DEED BOOK 1131 PG.229

TAX MAP 71-0-1-4E
MARTIN E. CREASMAN & MINTA T. CRE
865 P J EAST ROAD
COVINGTON GA. 30014
ZONED M-1
DEED BOOK 2049 PG.281

① SITE PLAN
1" = 50' 0"

FEASIBILITY

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P: 919.450.4500 F: 919.450.4502 E: info@bobbitt.com

APPROVAL
DATE

COORDINATOR
DESIGNER
DRAFTSMAN
CHECKER

FIRST GENERATION
OLD COVINGTON ROAD
CONYERS, GEORGIA

3/1/13
1" = 50' 0"
4/26/13
CONSENT SITE

A1
OF 1