




CITY OF GAINESVILLE  
CITY COMMISSION

2001 JUN 25 10 01 AM  
INTER-OFFICE COMMUNICATION  
GENERAL MANAGER

DATE: June 25, 2001

TO: Kurt Lannon  
Clerk of the Commission

FROM: Rhonda Osborne   
Executive Assistant

SUBJECT: Execution of Agenda Item

Attached is an Interlocal Agreement, File #001477 to be executed by the Mayor and Clerk after City Commission approval.

Please contact my office when this document is ready to be picked up.

attachment

**INTERLOCAL AGREEMENT BETWEEN THE CITY OF GAINESVILLE AND  
ALACHUA COUNTY FOR A LANDFILL GAS TO ENERGY PROJECT**

**THIS INTERLOCAL AGREEMENT**, made and entered into this \_\_\_ day of June, 2001, by and between the City of Gainesville, doing business as Gainesville Regional Utilities, a municipal corporation organized and existing under the laws of the State Florida, hereinafter referred to as "GRU", and Alachua County, a charter county and political subdivision of the State of Florida, by and through its Board of County Commissioners, hereinafter referred to as the "COUNTY". GRU and the COUNTY shall also be referred to herein as Parties collectively and Party individually.

**WITNESSETH:**

**WHEREAS**, GRU proposes to purchase, install, operate and maintain power generation equipment fueled by LANDFILL GAS at the COUNTY Southwest Landfill; and

**WHEREAS**, GRU desires to produce green energy from LANDFILL GAS to supply the needs and desires of its customers; and

**WHEREAS**, the COUNTY has the LANDFILL GAS collection and delivery infrastructure in place at the Southwest landfill necessary to provide LANDFILL GAS to power generation equipment; and

**WHEREAS**, the COUNTY desires to have their LANDFILL GAS diverted from the existing flare to power generation equipment in order to take advantage of a renewable energy resource, have useful work performed by this currently unutilized energy resource, and gain a source of revenue for solid waste operations; and

**WHEREAS**, the Parties desire to enter into this AGREEMENT to provide the terms and conditions necessary to develop a LANDFILL GAS TO ENERGY (LFGTE) project at the Southwest Landfill and for GRU to proceed with the design, purchase and installation of the LFGTE SYSTEM and provide for the ongoing operation and administration of the LFGTE SYSTEM.

**NOW, THEREFORE**, in consideration of the foregoing and the mutual covenants and agreements herein contained, the Parties agree as follows:

**ARTICLE 1  
DEFINITIONS**

Section 1.1. The following words shall have the following meanings unless the context requires otherwise.

**"AGREEMENT"** shall mean this INTERLOCAL AGREEMENT and any amendments hereto.

**"COUNTY"** shall mean Alachua County, Florida, its successors and assigns.

**"GRU"** shall mean the City of Gainesville, Gainesville Regional Utilities, Florida, its successors and assigns.

**"IN-SERVICE DATE"** shall mean the date upon which the LFGTE SYSTEM has been demonstrated to meet all operational specifications and LANDFILL GAS can be delivered to the LFGTE SYSTEM in the rates and quantities listed in Attachment B.

**"INDEPENDENT LABORATORY"** shall mean a MUTUALLY APPROVED laboratory certified to perform all required testing.

**"LANDFILL GAS"** shall mean gas collected from the Alachua County Southwest Landfill cells and delivered to the LFGTE SYSTEM.

**"LANDFILL GAS PRICE ESCALATOR"** shall mean the annual escalation factor applied to the price paid for LANDFILL GAS.

**"LFGTE SYSTEM"** shall mean all equipment required to accept LANDFILL GAS, convert it to electricity, and transport that electrical energy to the Florida Power Corporation electric distribution system.

**"MUTUALLY APPROVED"** and **"MUTUAL APPROVAL"** shall mean that both the COUNTY Manager or his/her designee and the General Manager for Utilities or his/her designee have approved in writing certain aspects of LFGTE SYSTEM design, access, administration, and operation and maintenance. These mutual approvals shall not constitute an amendment to this AGREEMENT.

**"RETAIL FUEL ADJUSTMENT"**, for the purposes of this AGREEMENT, shall mean the price per kilowatt-hour used by GRU to recover fuel costs for retail electricity sales as defined in the Gainesville Code of Ordinances Section 27-28, including that portion of the price that is assigned to base rates.

## ARTICLE 2 TERM OF AGREEMENT

Section 2.1. The initial term of this AGREEMENT shall be fifteen (15) years from the IN-SERVICE DATE.

Section 2.2. This AGREEMENT shall continue in effect beyond the initial term specified in Section 2.1 unless terminated by either Party with at least two (2) years written notice of intent to terminate.

Section 2.3. This AGREEMENT may be terminated prior to the term specified in Section 2.1 only for non-performance pursuant to Section 2.4, Section 3.1 or Section 3.4; sale or reassignment of the LFGTE SYSTEM by GRU to a third party pursuant to Article 7; failure after good faith efforts to obtain any permits required to operate the LFGTE SYSTEM, or by MUTUAL APPROVAL.

Section 2.4. Failure to comply with any of the terms of this AGREEMENT shall constitute non-performance. Termination of this AGREEMENT in the event of non-performance may occur only after the conditions of dispute resolution set forth in Article 12 are satisfied.

Section 2.5. GRU may not sell or assign the ownership of the LFGTE SYSTEM to another legal entity without 90 days prior written notification to the COUNTY.

Section 2.6. Any sale or assignment of the LFGTE SYSTEM by GRU shall transfer all the LFGTE SYSTEM obligations incumbent upon GRU to the new owner.

ARTICLE 3  
PERFORMANCE CRITERIA AND SYSTEM DESIGN

Section 3.1. Upon execution of this AGREEMENT GRU shall, at its own cost, proceed with such detailed engineering studies and power transmission negotiations with Florida Power Corporation deemed necessary for GRU to proceed with development of the LFGTE SYSTEM, after which GRU will determine whether it is economically feasible to continue with the project. Upon completion of the engineering studies, GRU will provide a Notice of Intent and project schedule to the COUNTY, subject to MUTUAL APPROVAL. The engineering studies shall be completed within four (4) months of the execution of this AGREEMENT.

Section 3.2. LANDFILL GAS heating value and composition shall meet all the engine manufacturer's specifications as detailed in Attachment C.

Section 3.3. COUNTY shall provide on a monthly basis to GRU certification of the LANDFILL GAS quantity and heating value delivered to the LFGTE SYSTEM. This certification shall include data from at least fifteen (15) daily readings during the month. COUNTY shall provide on a quarterly basis to GRU certification by an INDEPENDENT LABORATORY of the LANDFILL GAS heating value and composition as listed in Attachment C. The frequency of sampling by an INDEPENDENT LABORATORY to determine composition may be changed by MUTUAL APPROVAL.

Section 3.4. If the quantity of LANDFILL GAS made available to the LFGTE SYSTEM fails to meet the requirements defined in this AGREEMENT, then GRU may, in the exercise of its sole discretion, elect either to terminate this AGREEMENT or reduce the LANDFILL GAS base price per million BTU (mmBTU) by 6.5% for each 1.0% reduction in monthly quantity below the minimums listed in Attachment B by giving written notice to the COUNTY.

ARTICLE 4  
OWNERSHIP, CONSTRUCTION, OPERATION, MAINTENANCE, AND ADMINISTRATION

Section 4.1. GRU shall plan, design, permit, acquire and construct all aspects of the LFGTE SYSTEM, including LANDFILL GAS metering.

Section 4.2. GRU shall own and be solely responsible to operate, maintain, and administer all aspects of the LFGTE SYSTEM. GRU shall accept liability for all aspects of the LFGTE SYSTEM.

Section 4.3. GRU shall not hinder or interfere with the operation of the Southwest Landfill.

Section 4.4. COUNTY shall own, operate, maintain, and administer all aspects of the LANDFILL GAS collection and delivery equipment to ensure the long-term and reliable provision of LANDFILL GAS to the LFGTE SYSTEM.

Section 4.5. COUNTY shall plan, design, permit, acquire and construct all aspects of the LANDFILL GAS collection and delivery system and provide unrestricted access to the LFGTE SYSTEM to GRU at the Southwest landfill. COUNTY shall accept liability for all aspects of the LANDFILL GAS collection and delivery system.

Section 4.6. COUNTY shall make good faith efforts to modify the existing Florida Department of Environmental Protection Landfill closure permit to include all aspects of the LFGTE SYSTEM. COUNTY shall not unduly withhold permits required for operation of the LFGTE SYSTEM.

Section 4.7. COUNTY shall provide a use permit to GRU, coterminous with this AGREEMENT, for the area necessary to accommodate all LFGTE SYSTEM equipment. Attachment A contains a

site plan showing the location of the LFGTE SYSTEM and a legal description of an easement for ingress/egress, which shall be adopted pursuant to MUTUAL APPROVAL.

## ARTICLE 5 LANDFILL GAS PRODUCTION AND DELIVERY

Section 5.1. The COUNTY shall make available for delivery LANDFILL GAS at the minimum hourly rates and monthly quantities as scheduled in Attachment B.

Section 5.2. COUNTY shall provide GRU with exclusive rights to the LANDFILL GAS listed in Attachment B. COUNTY shall provide GRU with the first right of refusal for quantities of LANDFILL GAS that exceed those listed in Attachment B.

Section 5.3. COUNTY shall be responsible for any gas that can not be used in the LFGTE SYSTEM.

Section 5.4. Enhancements to gas production facilities resulting in increased LANDFILL GAS production or optimization as a function of time-of-use pursuant to detailed engineering studies referred to in to Section 3.1. shall be incorporated into Attachment B, if MUTUALLY APPROVED.

## ARTICLE 6 PAYMENTS FOR LANDFILL GAS

Section 6.1. COUNTY shall prepare in arrears an invoice for LANDFILL GAS utilized by the LFGTE SYSTEM and submit it to GRU for each calendar month.

Section 6.2. GRU shall make payment for LANDFILL GAS within thirty (30) days of receipt of the invoice. All payments required under this Article shall be in accordance with Chapter 218, Florida State Statutes (Florida Prompt Payment Act). Invoices shall specify the LANDFILL GAS quantity, average heating value, and composition.

Section 6.3. GRU shall pay for LANDFILL GAS at a price of \$0.36 per million BTU utilized by the LFGTE SYSTEM.

Section 6.4. The price per million BTU shall be adjusted monthly to reflect changes in the prevailing price paid per 1000 kilowatt-hours by GRU residential customers, pursuant to Chapter 27, Appendix A of the City of Gainesville Code of Ordinances; including base rates, customer service charges and the retail fuel adjustment. The LANDFILL GAS PRICE ESCALATOR shall be computed as the ratio of the billing month's cost per 1000 kilowatt-hours to \$83.85.

Section 6.5. In the event that any portion of any bill is in dispute, payment of the disputed amount may be held in abeyance. Disputes shall be discussed and resolved by the authorized representatives or designees identified in Article 11, who shall use their best efforts to amicably and promptly resolve the disputes. Upon determination of the MUTUALLY APPROVED billing amount, the proper adjustment shall be paid or refunded promptly after such determination.

Section 6.6. GRU, with any assistance necessary provided by the COUNTY, shall apply annually for the Renewable Energy Production Incentive or other similar incentives offered by federal or state entities. Should any additional funding be obtained as a result of this effort, it shall be divided on the basis of 75% to GRU and 25% to the COUNTY.

ARTICLE 7  
SALE OR ASSIGNMENT OF SYSTEM

Section 7.1. Upon delivery of notice pursuant to Section 2.5, the COUNTY shall have 90 days to provide written notice to GRU of its intent to terminate this AGREEMENT.

ARTICLE 8  
FORCE MAJEURE

Section 8.1. In the case either Party to this AGREEMENT should be delayed in or prevented from performing or carrying out any of the covenants or obligations made by and imposed upon said Party by this AGREEMENT, by reason of Force Majeure, then in such case or cases, both Parties shall be relieved of performance under this AGREEMENT to the extent made necessary by the Force Majeure, and only during its continuance, except for the obligation to pay for services already received under this AGREEMENT, and shall not be liable to the other Party for or on account of any loss, damage, injury, or expense resulting from or arising out of such delay or prevention; provided, however, that the Party suffering such delay or prevention shall use due or practicable diligence to remove the cause or causes thereof; and provided further, that neither Party shall be required by the foregoing provisions to settle a strike except when, according to its own best judgement, such a settlement seems advisable. The term Force Majeure shall be any cause not reasonably within the control of the Party claiming Force Majeure, not attributable to such Party's neglect, including, but not limited to, the following: strikes, stoppages in labor, failures of contractors or suppliers of materials, riots, fires, floods, ice, invasions, civil wars, commotion insurrections, military or usurped power, order of any court granted in any bona fide adverse legal proceedings or action, order of any civil or military authority, explosion, act of God or the public enemies, breakage or accident to machinery, transmission lines, or facilities, sabotage, or orders or permits, or the absence of the necessary orders or permits, of any kind which have properly applied for from the government of the United States of America, a State or States of the United States, or any political subdivision thereof.

ARTICLE 9  
INDEMNIFICATION

Section 9.1. Subject to the provisions of Section 768.28, Florida Statutes, as amended, each Party hereto shall indemnify and hold the other harmless from and against any and all loss, damage, cost or expense caused by the negligent or wrongful act or omission of any employee of the indemnifying party.

Section 9.2. To the maximum extent permitted by law, neither Party shall be liable to the other for any indirect, special, incidental, consequential, or punitive damages.

ARTICLE 10  
MISCELLANEOUS AND SEVERABILITY

Section 10.1. No waiver at any time by any Party hereto of its rights with respect to the other Party or with respect to any matter arising in connection with this AGREEMENT shall be considered a waiver with respect to any subsequent default or matter.

Section 10.2. This AGREEMENT shall be governed by and construed in accordance with the laws of Florida. Any litigation arising from this AGREEMENT shall be adjudicated in a Court of competent jurisdiction sitting in Alachua County, Florida.

Section 10.3. This AGREEMENT constitutes the entire AGREEMENT between the Parties relating to the subject matter hereof and supersedes any other agreements, written or oral, between the Parties concerning such subject matter.

Section 10.4. Should any provision of this AGREEMENT for any reason be declared invalid or unenforceable by a final, non-appealable order of any court or regulatory body having jurisdiction, such decision shall not affect the validity of the remaining portions of the AGREEMENT, and such portions shall remain in force and effect as if this AGREEMENT had been executed without the invalid portion. In the event any provision of this AGREEMENT is declared invalid, the Parties shall promptly renegotiate the invalid or unenforceable provision to restore this AGREEMENT as near as possible to its original intent and effect.

Section 10.5. No modification of the terms and provisions of this AGREEMENT shall be or become effective except by written amendment executed by the Parties.

## ARTICLE 11 NOTICES

Section 11.1. All written notices under this AGREEMENT shall be deemed properly sent if delivered in person, registered or certified mail, return receipt requested, postage prepaid to the persons specified below or such other address as either party may advise the other from time to time in writing:

If to GRU:           Attn: General Manager  
                          Gainesville Regional Utilities  
                          P.O. Box 147117, Station A-138  
                          Gainesville, FL 32614-7117  
                          Phone: (352) 334-3400 ext. 1007  
                          Fax: (352) 334-2277

If to COUNTY: Attn: County Manager  
                          Alachua County Board of County Commissioners  
                          P.O. Box 2877  
                          Gainesville, FL 32606-2877  
                          Phone: (352) 374-5210  
                          Fax: (352) 334-3119

## ARTICLE 12 DISPUTE RESOLUTION AND DEFAULTS

Section 12.1. Should a dispute or disagreement arise as to the interpretation of any of the terms or conditions of this AGREEMENT, or either party's performance thereof, the aggrieved party, as a condition precedent to any remedy under the terms of this AGREEMENT or general law, shall notify the other in writing describing the dispute and proposed resolution with specificity. The parties shall then meet at an agreed place and time, no more than fifteen (15) days after the delivery of notice of the dispute to attempt a resolution of the dispute. If resolution of the dispute is not achieved within sixty (60) days of the notification the parties may resort to such other remedies as are available under the terms of this AGREEMENT or as provided by general law.

ARTICLE 13  
AUTHORIZATION

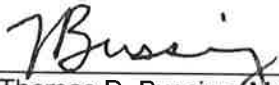
Section 13.1. Each Party represents that it has the necessary corporate, legal and regulatory authority to enter into this AGREEMENT and to perform each and every duty and obligation imposed therein. Each individual affixing a signature to this AGREEMENT represents and warrants that he or she has been duly authorized to execute this AGREEMENT on behalf of the Party he or she represents, and that by signing the AGREEMENT, a valid, binding and enforceable legal obligation of said Party has been created.

**IN WITNESS WHEREOF**, The Parties have caused this INTERLOCAL AGREEMENT to be executed for the uses and purposes set forth therein.

ALACHUA COUNTY

CITY OF GAINESVILLE

BY: \_\_\_\_\_  
Dave Newport, Chair  
Board of County Commissioners

BY:  \_\_\_\_\_  
Thomas D. Bussing, Mayor  
City of Gainesville

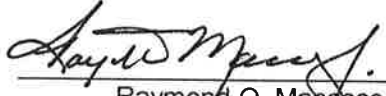
ATTEST: \_\_\_\_\_  
J.K. "Buddy" Irby, Clerk  
(SEAL)

ATTEST:  \_\_\_\_\_  
Kurt Lannon, Clerk  
(SEAL)

APPROVED AS TO FORM:

APPROVED AS TO FORM AND LEGALITY:

\_\_\_\_\_  
David Wagner  
County Attorney

 \_\_\_\_\_  
Raymond O. Manasco, Jr.  
Utilities Attorney



Attachment A  
LFGTE SYSTEM Location and Access

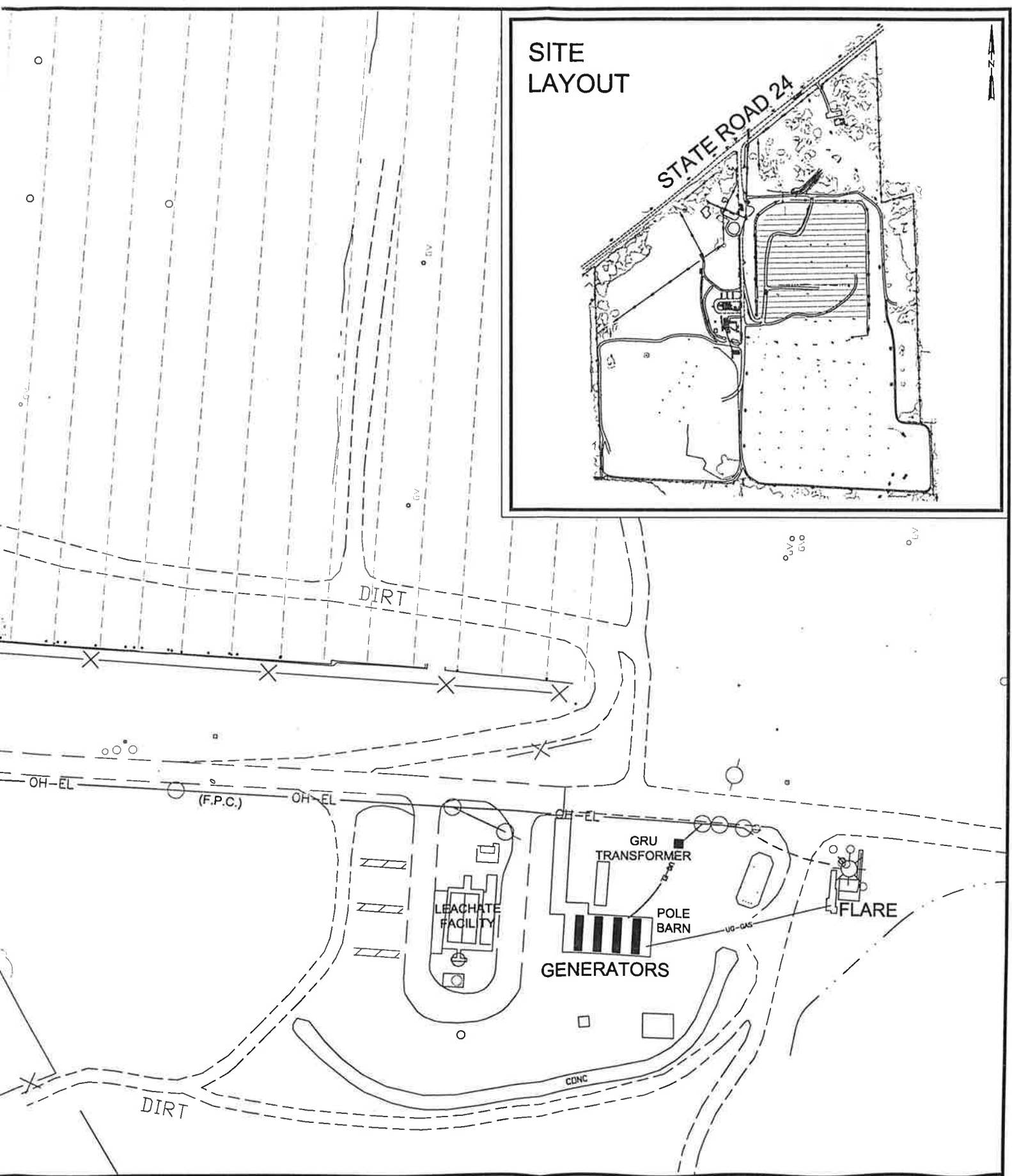
The Alachua County Southwest Landfill is a 233-acre site which includes 90 acres of landfill cells, eight storm water ponds, vegetated buffer zones, mobile offices, a leachate treatment plant, a scale house, a groundwater monitoring network of wells, as well as landfill gas migration monitoring equipment, and a landfill gas collection and flaring system.

The Southwest Landfill site is identified on the attached map (Attachment A - Site Map). The location of the LFGTE SYSTEM is indicated on the map. The COUNTY shall allow GRU to use this area for the LFGTE SYSTEM as long as the LFGTE SYSTEM remains in operation by GRU.

The COUNTY shall provide GRU and GRU's LFGTE SYSTEM contractor(s) unrestricted access to the LFGTE SYSTEM at all times during the life of the LFGTE SYSTEM project. GRU's access to the LFGTE SYSTEM shall be on the scale house road which provides access from State Road 24 (Archer Road) to the existing gas flare equipment.

# SITE LAYOUT

STATE ROAD 24



ENERGY PROJECT AT THE  
SOUTHWEST LANDFILL



LOCATION  
MAP

ALACHUA  
COUNTY,  
FLORIDA

SITE



D:\landfill\1372c001rev2.dwg PLOTTED: 06\12\01 4:35pm By C.A.O. XREFS: County Hwy\_01 PLSS PLSS-LBL RTEXT

ORIGINAL SITE DRAWINGS /  
SURVEY OBTAINED FROM  
CH2mHILL

LANDFILL GAS TO ENERGY  
ALACHUA COUNTY S

ATTACHMENT B  
LANDFILL GAS DELIVERY RATES AND QUANTITIES

Date	Delivery Rate (mmBTU/hr)	Monthly Minimum Quantities (mmBTU/mo)	Date	Delivery Rate (mmBTU/hr)	Monthly Minimum Quantities (mmBTU/mo)
Dec-01	33.70	16,717	Sep-05	19.20	9,218
Jan-02	33.29	16,510	Oct-05	18.97	9,407
Feb-02	32.87	14,727	Nov-05	18.73	8,990
Mar-02	32.46	16,102	Dec-05	18.50	9,175
Apr-02	32.06	15,389	Jan-06	18.27	9,061
May-02	31.66	15,705	Feb-06	18.04	8,082
Jun-02	31.27	15,009	Mar-06	17.82	8,837
Jul-02	30.88	15,317	Apr-06	17.60	8,446
Aug-02	30.50	15,127	May-06	17.38	8,619
Sep-02	30.12	14,457	Jun-06	17.16	8,237
Oct-02	29.74	14,753	Jul-06	16.95	8,406
Nov-02	29.37	14,100	Aug-06	16.74	8,302
Dec-02	29.01	14,389	Sep-06	16.53	7,934
Jan-03	28.65	14,210	Oct-06	16.32	8,097
Feb-03	28.29	12,675	Nov-06	16.12	7,738
Mar-03	27.94	13,859	Dec-06	15.92	7,897
Apr-03	27.59	13,246	Jan-07	15.72	7,799
May-03	27.25	13,517	Feb-07	15.53	6,956
Jun-03	26.91	12,918	Mar-07	15.33	7,606
Jul-03	26.58	13,183	Apr-07	15.14	7,269
Aug-03	26.25	13,020	May-07	14.96	7,418
Sep-03	25.92	12,443	Jun-07	14.77	7,090
Oct-03	25.60	12,698	Jul-07	14.59	7,235
Nov-03	25.28	12,136	Aug-07	14.41	7,145
Dec-03	24.97	12,385	Sep-07	14.23	6,829
Jan-04	24.66	12,231	Oct-07	14.05	6,969
Feb-04	24.35	11,299	Nov-07	13.88	6,660
Mar-04	24.05	11,929	Dec-07	13.70	6,797
Apr-04	23.75	11,401	Jan-08	13.53	6,712
May-04	23.46	11,634	Feb-08	13.36	6,201
Jun-04	23.16	11,119	Mar-08	13.20	6,547
Jul-04	22.88	11,347	Apr-08	13.03	6,257
Aug-04	22.59	11,206	May-08	12.87	6,385
Sep-04	22.31	10,710	Jun-08	12.71	6,102
Oct-04	22.03	10,929	Jul-08	12.56	6,227
Nov-04	21.76	10,445	Aug-08	12.40	6,150
Dec-04	21.49	10,659	Sep-08	12.25	5,878
Jan-05	21.22	10,527	Oct-08	12.09	5,998
Feb-05	20.96	9,390	Nov-08	11.94	5,733
Mar-05	20.70	10,267	Dec-08	11.79	5,850
Apr-05	20.44	9,813	Jan-09	11.65	5,777
May-05	20.19	10,014	Feb-09	11.50	5,153
Jun-05	19.94	9,570	Mar-09	11.36	5,635
Jul-05	19.69	9,766	Apr-09	11.22	5,385
Aug-05	19.45	9,645	May-09	11.08	5,496

ATTACHMENT B  
 LANDFILL GAS DELIVERY RATES AND QUANTITIES  
 (continued)

Date	Delivery Rate (mmBTU/hr)	Monthly Minimum Quantities (mmBTU/mo)	Date	Delivery Rate (mmBTU/hr)	Monthly Minimum Quantities (mmBTU/mo)
Jun-09	10.94	5,252	Mar-13	6.23	3,092
Jul-09	10.81	5,360	Apr-13	6.16	2,955
Aug-09	10.67	5,293	May-13	6.08	3,016
Sep-09	10.54	5,059	Jun-13	6.01	2,883
Oct-09	10.41	5,163	Jul-13	5.93	2,942
Nov-09	10.28	4,934	Aug-13	5.86	2,905
Dec-09	10.15	5,035	Sep-13	5.78	2,776
Jan-10	10.03	4,973	Oct-13	5.71	2,833
Feb-10	9.90	4,436	Nov-13	5.64	2,708
Mar-10	9.78	4,850	Dec-13	5.57	2,763
Apr-10	9.66	4,635	Jan-14	5.50	2,729
May-10	9.54	4,730	Feb-14	5.43	2,434
Jun-10	9.42	4,521	Mar-14	5.37	2,662
Jul-10	9.30	4,613	Apr-14	5.30	2,544
Aug-10	9.19	4,556	May-14	5.23	2,596
Sep-10	9.07	4,354	Jun-14	5.17	2,481
Oct-10	8.96	4,444	Jul-14	5.10	2,532
Nov-10	8.85	4,247	Aug-14	5.04	2,500
Dec-10	8.74	4,334	Sep-14	4.98	2,390
Jan-11	8.63	4,280	Oct-14	4.92	2,439
Feb-11	8.52	3,818	Nov-14	4.86	2,331
Mar-11	8.42	4,174	Dec-14	4.80	2,378
Apr-11	8.31	3,989	Jan-15	4.74	2,349
May-11	8.21	4,071	Feb-15	4.68	2,095
Jun-11	8.11	3,891	Mar-15	4.62	2,291
Jul-11	8.01	3,971	Apr-15	4.56	2,189
Aug-11	7.91	3,921	May-15	4.50	2,234
Sep-11	7.81	3,748	Jun-15	4.45	2,135
Oct-11	7.71	3,825	Jul-15	4.39	2,179
Nov-11	7.62	3,655	Aug-15	4.34	2,152
Dec-11	7.52	3,730	Sep-15	4.29	2,057
Jan-12	7.43	3,684	Oct-15	4.23	2,099
Feb-12	7.33	3,403	Nov-15	4.18	2,006
Mar-12	7.24	3,593	Dec-15	4.13	2,047
Apr-12	7.15	3,434	Jan-16	4.08	2,024
May-12	7.06	3,504	Feb-16	4.03	1,870
Jun-12	6.98	3,349	Mar-16	3.98	1,974
Jul-12	6.89	3,418	Apr-16	3.93	1,886
Aug-12	6.80	3,375	May-16	3.88	1,924
Sep-12	6.72	3,226	Jun-16	3.83	1,838
Oct-12	6.64	3,292	Jul-16	3.78	1,875
Nov-12	6.55	3,146	Aug-16	3.73	1,850
Dec-12	6.47	3,211	Sep-16	3.69	1,771
Jan-13	6.39	3,171	Oct-16	3.64	1,805
Feb-13	6.31	2,828	Nov-16	3.60	1,728

ATTACHMENT C  
LANDFILL GAS HEATING VALUE AND COMPOSITION

LANDFILL GAS COMPONENT	LOWER LIMIT	UPPER LIMIT
Heating Value	400 BTU/SCF	520 BTU/SCF
Oxygen	None	2%
Sulfur Compounds (as H <sub>2</sub> S)	None	60 micrograms per BTU
Halide Compounds (as Cl)	None	20 micrograms per BTU
Ammonia	None	2.96 micrograms per BTU
Oil Content	None	1.25 micrograms per BTU
Particulates in Fuel	None	0.84 micrograms per BTU
Particulate Size in Fuel	None	1 micron
Silicon in Fuel	None	0.60 micrograms per BTU
Fuel Temperature	-50 °F	140 °F
Fuel Pressure Fluctuation	None	0.25 psig
Fuel Pressure		

Water Content: Water condensation in the fuel lines or engine is not acceptable. LANDFILL GAS shall have a relative humidity of 80% or less at the minimum fuel operating temperature. LANDFILL GAS shall not contain any liquids. If liquids are present, they shall be removed by either increasing the LANDFILL GAS temperature, by coalescing filter, or by any other MUTUALLY APPROVED means.