



ECO COPY

July 7, 2010

Mr. Dan Weisberg, P.E.
Director, PBC Traffic Division
Department of Engineering and Public Works
2300 North Jog Road
West Palm Beach, Florida 33411

**Re: Traffic Concurrency
Solid Waste Authority of Palm Beach County
New Renewable Energy Facility
Palm Beach Renewable Energy Park**

Dear Mr. Weisberg:

The Solid Waste Authority of Palm Beach County (Authority) is proposing to expand their solid waste processing and energy generation capacity with the construction of a new 3,000 ton-per-day (tpd) renewable energy facility, known as the Palm Beach Renewable Energy Facility No. 2 (Proposed Facility), on a parcel of land just north of the Authority's existing waste to energy facility, Palm Beach Renewable Energy Facility No. 1, (Existing Facility). The Existing Facility is located on Jog Road between 45th Street and Beeline Highway. The Proposed Facility will be located within the Palm Beach Renewable Energy Park (Park), also known as the North County Resource Recovery Facility Campus. Both facilities will receive municipal solid waste that is generated in Palm Beach County, process that waste, and use the energy from that waste to generate electricity. The function of these two facilities will aid in extending the life of the existing landfill located at the Energy Park, provide additional electric capacity to the grid without the consumption of fossil fuels, and maximize the existing solid waste infrastructure.

The location of the Proposed Facility, as well as all of the components that make up the Park, are presented in Figure 1.

Currently, municipal solid waste is delivered to the Energy Park and disposed of at either the Existing Facility or the Class I Landfill (Landfill). Truck traffic currently enters the Energy Park's Landfill through the existing scale house east of Jog Road. Upon construction of the

Proposed Facility, the Proposed Facility will process all of the material currently being disposed of at the Landfill. All truck traffic will instead enter the existing scale house located north of the South Borrow Lake that currently serves the Existing Facility. As such, the Proposed Facility will not increase the number of vehicles nor will it alter the origin of vehicles. It will alter the destination, based upon delivering waste to the Proposed Facility (west of Jog Road) rather than the Landfill (east of Jog Road).

Similar to the Existing Facility, the Proposed Facility will operate 7 days a week, 24 hours a day, but will only accept waste deliveries Monday thru Saturday, 7:00 a.m. to 5:00 p.m. The Landfill has the same operation schedule; therefore, no new truck traffic will be traveling to the area that does not already travel to the Landfill within the same operational timeframes.

Construction of the Proposed Facility is anticipated to begin in 2012 with completion in 2015. Once the Proposed Facility is operational, the only anticipated additional vehicle traffic that will be added to the area will be for the average daily personnel occupied vehicle (POV) trips for employees on staff at the Proposed Facility and the occasional delivery of materials to the Proposed Facility. The Proposed Facility will have a full time staff of about 80 personnel. The Proposed Facility will have a rotational schedule utilizing one main shift of about 55 employees during tipping floor operational hours or when waste is delivered to the facility and a reduced staff of about ten (10) to fifteen (15) employees during non-tipping floor operational hours. During a 24-hour period, operational staff will add an approximate maximum of 250 POV trips per day (Monday thru Saturday) and approximately 40 POV trips per day during holidays and Sundays.

We are hereby requesting your approval of traffic concurrence for the construction of the Proposed Facility in accordance with the following:

- A. The total traffic volume for the operation of the Proposed Facility will only increase the area's traffic volume slightly. This increase in volume is a result of the increase in the labor force associated with operation of the Proposed Facility while waste deliveries to the Proposed Facility are merely diverted from the Landfill entrance located 0.5 miles south of the entrance to the Existing Facility and the Proposed Facility.
- B. Access routes to the Park will not change. Internal access will change slightly due to the additional workforce needed to operate the Proposed Facility.
- C. A new Palm Tran stop is proposed for the Biosolids Pelletization Facility, located at the intersection of 45th Street and Jog Road, thereby potentially reducing POV employee traffic.

- D. The proposed Jog Road and 45th Street improvement projects will improve the capacity of the existing roads.

The construction and operation of the Proposed Facility is an additional environmentally beneficial project proposed by the Authority, to our region and the State of Florida. It significantly extends the life of the Energy Park's Landfill by reducing the volume of solid waste to be disposed, with inert ash disposed rather than putrescible waste. It will generate electricity without the use of fossil fuels and reduce the strain on the environment through the recovery of ferrous and non-ferrous metals substituting the supply of recycled material in lieu of withdrawing raw materials from natural resources. Waste to energy facilities are recognized by the United States Environmental Protection Agency as a clean reliable renewable energy source with less environmental impacts than other sources of electricity. A new renewable energy facility typically produces 63% less carbon dioxide, 94% less sulfur dioxide, and 10% less nitrous oxides than traditional coal fired power plants. Finally, it will avoid the methane emissions that would result by landfilling. Methane is approximately 21 times more potent than carbon dioxide as a greenhouse gas. Each ton of waste processed in the Proposed Facility and not landfilled will reduce greenhouse gas emissions by 0.55 tons of carbon dioxide equivalent.

If you deem it necessary, we would be happy to meet with you or your staff and discuss the project in greater detail, or listen to your recommendations on the most expeditious path forward.

Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,



Raymond H. Schauer
Director of Engineering & Public Works

RHS/kal

Enc.

Cc: M. Atefi, Traffic Division
L. Richter, Malcolm Pirnie, Inc.
MP File No. 3582056

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Source: Palm Beach County
Aerial Photo 7/2/2009

**MALCOLM
PIRNIE**



Solid Waste Authority
of Palm Beach County

**RENEWABLE ENERGY
PARK FACILITIES**
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MALCOLM PIRNIE, INC.
July 2010
FIGURE 1