

BROWARD TESTING LABORATORY, INC.

POTABLE WATER LABORATORY CERTIFICATION NUMBER 86137
ENVIRONMENTAL LABORATORY CERTIFICATION NUMBER 86035

LABORATORY PARAMETER ANALYSIS REPORT

PROJECT PASCO COUNTY

SOURCE <u>RESOURCE RECOVERY ASH SITE B</u>	SAMPLE DATE <u>6/3/91</u>
LAB. NUMBER <u>930-2368</u>	SAMPLE TIME _____
GROUND WATER CLASS _____	COMPLETION DATE <u>6/25/91</u>
SAMPLED BY <u>CLIENT</u>	SAMPLE TYPE () <u>BACKGROUND</u>
NO. WELL CASING VOL. PURGED _____	() SITE BOUNDRY
	() INTERMEDIATE
	() COMPLIANCE

STORET CODE	PARAMETER MONITORED	ANALYSIS METHOD	ANALYSIS RESULT	UNIT	DATE	ANALYST
01077	SILVER	1310-272.2	0.0054	MG/L	6/13	E. GOLE
01002	ARSENIC	1310-7060	0.016	MG/L	6/17	E. GOLE
01012	BERYLLIUM	1310-7091	<0.05	MG/L	6/12	E. GOLE
01027	CADMIUM	1310-7131	0.54	MG/L	6/14	E. GOLE
01034	CHROMIUM	1310-7191	0.25	MG/L	6/14	E. GOLE
01042	COPPER	1310-7210	1.07	MG/L	6/20	E. GOLE
71900	MERCURY	1310-7470	3.78	MG/L	6/24	E. GOLE
01067	NICKEL	1310-249.2	0.175	MG/L	6/19	E. GOLE
01051	LEAD	1310-7421	1.99	MG/L	6/18	E. GOLE
01097	ANTIMONY	1310-7041	0.76	MG/L	6/19	E. GOLE
01147	SELENIUM	1310-7740	<0.010 *	MG/L	6/17	E. GOLE
01092	ZINC	1310-7950	161	MG/L	6/21	E. GOLE
01059	THALLIUM	1310-7841	<0.002 **	MG/L	6/19	E. GOLE

REMARKS: *DUE TO MATRIX INTERFERENCES THE DETECTION LIMIT IS 0.010
 **DUE TO MATRIX INTERFERENCES THE DETECTION LIMIT IS 0.002

REVIEWED BY: G. MEYER



REPORT OF LABORATORY ANALYSIS

Ogden Martin Systems
 P.O. Box 709
 Brandon, FL 34299

January 14, 1992
 PACE Project Number: 220102512

Attn: Mr. John Power

Client Reference: Pasco 91 1230 PPM

PACE Sample Number: 90 0000219
 Date Collected: 12/30/91
 Date Received: 12/31/91
 Client Sample ID: Inc.

Parameter	Units	MDL	Ash Composite
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INORGANIC ANALYSIS

PRIORITY POLLUTANT LIST METALS

Antimony	mg/kg	20	ND
Arsenic EPA 206.2	mg/kg	50	ND
Beryllium	mg/kg	3	ND
Cadmium	mg/kg	1	39
Chromium	mg/kg	5	13
Copper	mg/kg	5	2700
Lead	mg/kg	10	680
Mercury EPA 245.1	mg/kg	0.1	4.1
Nickel	mg/kg	20	33
Selenium EPA 270.2	mg/kg	10	ND
Silver	mg/kg	2	ND
Thallium	mg/kg	20	ND
Zinc	mg/kg	2	3600

MDL Method Detection Limit
 ND Not detected at or above the MDL.

These data have been reviewed and are approved for release.

Michael F. Valder
 Manager, Inorganic Chemistry

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QUALITY CONTROL DATA

January 14, 1992
PACE Project Number: 220102512

Client Reference: Pasco 91 1230 PPM

Antimony
Batch: 90 21917
Samples: 90 0000219

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	90 0001401	Duplicate of 90 0001401	RPD
Antimony	mg/L	0.2	ND	ND	ND	NC

SPIKE:

Parameter	Units	MDL	90 0001401	Spike	Spike Recv
Antimony	mg/L	0.2	ND	1	94%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Antimony	mg/L	0.2	1	103%

MDL Method Detection Limit
RPD Relative Percent Difference
NC No calculation due to value below detection limit.

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QUALITY CONTROL DATA

January 14, 1992
PACE Project Number: 220102512

Client Reference: Pasco 91 1230 PPM

Arsenic EPA 206.2
Batch: 90 21757
Samples: 90 0000219

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Method Blank</u>
Arsenic EPA 206.2	mg/L	0.5	ND

LABORATORY CONTROL SAMPLE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Reference Value</u>	<u>Recv</u>
Arsenic EPA 206.2	mg/L	0.5	1	107%

MDL Method Detection Limit

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QUALITY CONTROL DATA

January 14, 1992
PACE Project Number: 220102512

Client Reference: Pasco 91 1230 PPM

Beryllium
Batch: 90 21918
Samples: 90 0000219

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	90 0001401	Duplicate of 90 0001401	RPD
Beryllium	mg/L	0.03	ND	ND	ND	NC

SPIKE:

Parameter	Units	MDL	90 0001401	Spike	Spike Recv
Beryllium	mg/L	0.03	ND	1	93%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Beryllium	mg/L	0.03	1	102%

MDL Method Detection Limit
RPD Relative Percent Difference
NC No calculation due to value below detection limit.

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QUALITY CONTROL DATA

January 14, 1992
PACE Project Number: 220102512

Client Reference: Pasco 91 1230 PPM

Cadmium
Batch: 90 21759
Samples: 90 0000219

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Method Blank</u>
Cadmium	mg/L	0.01	ND

LABORATORY CONTROL SAMPLE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Reference Value</u>	<u>Recv</u>
Cadmium	mg/L	0.01	1	103%

MDL Method Detection Limit

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QUALITY CONTROL DATA

January 14, 1992
PACE Project Number: 220102512

Client Reference: Pasco 91 1230 PPM

Chromium
Batch: 90 21758
Samples: 90 0000219

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Method Blank</u>
Chromium	mg/L	0.05	ND

LABORATORY CONTROL SAMPLE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Reference Value</u>	<u>Recv</u>
Chromium	mg/L	0.05	1	101%

MDL Method Detection Limit

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QUALITY CONTROL DATA

January 14, 1992
PACE Project Number: 220102512

Client Reference: Pasco 91 1230 PPM

Copper
Batch: 90 21901
Samples: 90 0000219

METHOD BLANK AND SAMPLE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Method Blank</u>	<u>90 0001401</u>	<u>Duplicate of 90 0001401</u>	<u>RPD</u>
Copper	mg/L	0.05	ND	0.06	0.06	0%

SPIKE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>90 0001401</u>	<u>Spike</u>	<u>Spike Recv</u>
Copper	mg/L	0.05	0.06	0.6	97%

LABORATORY CONTROL SAMPLE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Reference Value</u>	<u>Recv</u>
Copper	mg/L	0.05	1	99%

MDL Method Detection Limit
RPD Relative Percent Difference

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QUALITY CONTROL DATA

January 14, 1992
PACE Project Number: 220102512

Client Reference: Pasco 91 1230 PPM

Lead
Batch: 90 21760
Samples: 90 0000219

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Method Blank</u>
Lead	mg/L	0.1	ND

LABORATORY CONTROL SAMPLE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Reference Value</u>	<u>Recv</u>
Lead	mg/L	0.1	1	99%

MDL Method Detection Limit

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QUALITY CONTROL DATA

January 14, 1992
PACE Project Number: 220102512

Client Reference: Pasco 91 1230 PPM

Vickel
Batch: 90 21900
Samples: 90 0000219

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	90 0001401	Duplicate of 90 0001401	RPD
Vickel	mg/L	0.2	ND	ND	ND	NC

SPIKE:

Parameter	Units	MDL	90 0001401	Spike	Spike Recv
Vickel	mg/L	0.2	ND	0.6	93%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Vickel	mg/L	0.2	1	99%

MDL Method Detection Limit
RPD Relative Percent Difference
NC No calculation due to value below detection limit.



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QUALITY CONTROL DATA

January 14, 1992
PACE Project Number: 220102512

Client Reference: Pasco 91 1230 PPM

Selenium EPA 270.2
Batch: 90 21820
Samples: 90 0000219

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	90 0001398	Duplicate of 90 0001398	RPD
Selenium EPA 270.2	ug/L	10	ND			
Selenium EPA 270.2	mg/kg	10		ND	ND	NC

SPIKE:

Parameter	Units	MDL	90 0001371	Spike	Spike Recv
Selenium EPA 270.2	mg/kg	10	ND	40	99%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Selenium EPA 270.2	ug/L	10	50	98%

MDL Method Detection Limit
RPD Relative Percent Difference
NC No calculation due to value below detection limit.

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QUALITY CONTROL DATA

January 14, 1992
PACE Project Number: 220102512

Client Reference: Pasco 91 1230 PPM

Silver
Batch: 90 21761
Samples: 90 0000219

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Method Blank</u>
Silver	mg/L	0.02	ND

LABORATORY CONTROL SAMPLE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Reference Value</u>	<u>Recv</u>
Silver	mg/L	0.02	1	100%

MDL Method Detection Limit

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QUALITY CONTROL DATA

January 14, 1992
PACE Project Number: 220102512

Client Reference: Pasco 91 1230 PPM

Thallium
Batch: 90 21919
Samples: 90 0000219

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	90 0001401	Duplicate of 90 0001401	RPD
Thallium	mg/L	0.2	ND	ND	ND	NC

SPIKE:

Parameter	Units	MDL	90 0001401	Spike	Spike Recv
Thallium	mg/L	0.2	ND	1	91%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Thallium	mg/L	0.2	1	92%

MDL Method Detection Limit
 RPD Relative Percent Difference
 NC No calculation due to value below detection limit.

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QUALITY CONTROL DATA

January 14, 1992
PACE Project Number: 220102512

Client Reference: Pasco 91 1290 PPM

Zinc
Batch: 90 21899
Samples: 90 0000219

METHOD BLANK AND SAMPLE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Method Blank</u>	<u>90 0001401</u>	<u>Duplicate of 90 0001401</u>	<u>RPD</u>
Zinc	mg/L	0.02	ND	0.71	0.71	0%

SPIKE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>90 0001401</u>	<u>Spike</u>	<u>Spike Recv</u>
Zinc	mg/L	0.02	0.71	0.6	97%

LABORATORY CONTROL SAMPLE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Reference Value</u>	<u>Recv</u>
Zinc	mg/L	0.02	1	98%

MDL Method Detection Limit
RPD Relative Percent Difference

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PASCO COUNTY SOLID WASTE RESOURCE RECOVERY FACILITY
ASH RESIDUE MANAGEMENT PLAN

The Ogden Martin Systems of Pasco County (OMSP) Resource Recovery Facility has a nameplate capacity of 1050 tons per day of municipal solid waste (based on a referenced fuel with a HHV of 4800 BTu/lb). Estimates of daily and annual ash residue quantities, generated and disposed of in the Pasco County ash landfill, for the initial 20 years of operation, are provided in Table 1. These estimates are based on the estimated annual processible waste quantities provided in the Power Plant Site Certification Application (dated November 1987). The ash residue is a combined stream consisting of both fly ash and bottom ash.

The residue handling methods, equipment, ash disposal site, analytical QA/QC for ash characterization, potential for ash recycling, and conditions of assuring that hazardous wastes are not received or incinerated at the facility are all discussed within this ash residue management plan, per the requirements of Rule 17-702.400, F.A.C.

1. Residue Handling Equipment

The residues of combustion consist of non-combustible by-products, fly ash, spent lime and bottom ash siftings. The resultant ash residue is approximately 25 to 30 percent (by weight) of the incoming municipal solid waste. It is not possible to accurately estimate the fly ash component generated from the total ash residue produced. Most facilities currently in operation in the United States combine fly ash and bottom ash in the ash quench system. Thus, there is little information for calculating the precise amounts of fly versus bottom ash.

The fly ash system collects and handles spent lime reagent, collected salts and fly ash discharged from the superheater, economizer, dry scrubber and particulate removal systems. The air pollution control (APC) systems and boiler ash hoppers discharge to screw conveyors through dump valves. These provide a barrier between the air pressure in the conveyors and the various pressure levels at different points in the combustion train. The collected

stream is combined with the bottom ash for quenching and removal in the ash discharger.

Each stoker is furnished with one proprietary martin GmbH residue discharger, which receives, combines, wets and quenches burned out waste residues, grate siftings and fly ash. The ash discharger is totally enclosed, thus preventing siftings from becoming airborne prior to quenching.

From the quench chamber, a hydraulically driven ram pushes the residue up an inclined draining/drying chute. In the chute, excess water from the residue drains back into the quench bath. Residue, containing enough moisture to prevent dusting (15 to 25 percent by weight), then falls on to the main vibrating residue conveyor.

The conveyor carries discharged residue from the boilers to an integral grizzly scalper. The grizzly scalper extracts large pieces from the main residue stream. Oversized pieces are transported to the residue storage building via front end loader. Undersized pieces are fed to an inclined belt conveyor for transport to the residue storage building. Conveyors exterior to buildings are covered.

Each residue discharger is equipped with a bypass transfer chute to permit uninterrupted removal of residue if any component of the ash conveying system is shut down for maintenance. The transfer chutes are designed to provide bypass of the main vibrating conveyor by directing the residue to a dumpster. The dumpster is transported to the ash building via fork lift.

The completely enclosed residue storage building contains three separate storage bays. Two of the bays are for ash residue and the third is for recovered ferrous metals. An iron-aggregate shake-on concrete surface hardener is applied to the entire floor of the building. Joints are sealed to prevent water from seeping out at walls and construction joints in the floor. Each storage compartment is sized to allow a naturally forming residue pile in order to minimize the amount of residue recast required. Each residue pile consists of a cone with its lower portion constrained by

the compartment walls. Sufficient storage volume will be provided for three days of material (34,182 cubic feet).

Processed residue is then removed from storage and loaded into trucks by a front-end loader for ultimate disposal in the designated landfill. The moisture content of the ash (15 to 25 percent by weight) minimizes any potential fugitive dust emissions and possible human exposure through inhalation during the handling, conveying and transport activities. The consistency and appearance of the ash residue is comparable to wet aggregate. This moisture condition continues to be maintained during transport to the landfill.

Separation and recovery of ferrous metals are also done in the residue building. When the residue first enters the building, it passes under a magnet which is designed to remove at least 80 percent of the ferrous metals in residue containing at least 8 percent by weight of magnetic ferrous metals greater than 1-inch in size. The separated metals pass through a rotating drum trommel which conditions the ferrous by removing adhering ash particles. The recovered ferrous is directed to the bay of the building for removal by truck.

The trucks used to transport the residue material to the landfill are leak-proof containerized vehicles which have the capability of conveying up to 25 tons of material per load. Prior to transport to the disposal area loaded trucks will pass over the facility scales for record keeping purposes. During transport to the landfill, the vehicles will be covered with a canvas tarp if necessary for control of visible fugitive emissions. The vehicle make approximately fourteen round trips per day, operating six days per week.

The ash materials will be managed in compliance with Chapter 17-702, F.A.C. and in a manner (i.e., moist) such that an extremely low potential for inhalation, ingestion or direct dermal contact will exist. Ogden Martin Systems of Pasco County has developed a detailed and specific employee safety training program. The program provides effective personal respiratory protection equipment as necessary to promote a high degree of

protection to facility personnel who may have contact with the ash material. This program will be continuously updated as new information and equipment is developed to assure compliance with all OSHA standards and FDER requirements. After quenching and draining of freewater from the residual materials, the ash will still contain approximately 15 to 25 percent moisture which will remain through the period of short-term storage and disposal. The highly mechanized nature of the ash handling and disposal operations, in combination with enclosed systems whenever possible, will minimize the potential for inhalation, ingestion or body contact with the residue material.

2. Ash Disposal Site

The current ash residue disposal site is located in a portion of the Hays Road Landfill/Ashfill which is adjacent to the Pasco County Resource Recovery Facility. This portion of the landfill is a 5-year permitted ash monofill with a double synthetic lining system and leachate collection and removal systems which complies with the requirements of Rule 17-701.050, F.A.C.

3. Analytical Quality Assurance/Quality Control Plan

Sampling and analysis analytical procedures used for characterization of the ash residue will be in accordance with the following EPA documents:

1. Test Methods for Evaluating Solid Waste - Physical/Chemical Methods (SW-846), September, 1986, second edition.
2. USEPA and the Coalition on Resource Recovery and the Environment (CORRE) - Draft Work Plan, December 1988.

A representative sample of the combined ash samples will be obtained on quarterly basis using the ASTM "Belt Sampling Protocol" (ASTM D2234-86) and composited per Rules 17-702.570 (2), F.A.C. The sample will be sent to the county owned certified laboratory and analyzed using appropriate methods and techniques. Analysis will include total metals analysis for the

thirteen priority pollutant metals using EPA method 3050 (Acid Digestion of Sediments, Sludges, and Soils). The priority pollutant metals include: silver, arsenic, beryllium, cadmium, chromium, copper, mercury, nickel, lead, antimony, selenium, thallium and zinc.

The laboratory will adhere to a strict quality control program which consists of a reagent blank, a sample duplicate and a matrix spike for at least one sample (as specified by SW-846).

In addition to the ash sample, leachate from the ash monofill will also be collected and analyzed for the priority pollutant metals on a quarterly basis.

The results of the ash and leachate analyses will be submitted annually to the Department of Environmental Regulation in a report which presents the summarized data.

4. Recycling of Ash Residue

As part of the total ash management program, the County will be alert to potential uses of ash. Currently, various pilot projects are underway in Florida and other states to study the possibility of reusing the ash. For example, several communities are studying the effects of incorporating ash materials into asphalt and concrete aggregate materials used in roadway pavements. This work is still in the development and research stages however and will require additional study regarding mixing ratios, leachability, and encapsulation techniques for the material. If these programs are successful, Pasco County may pursue ash reuse programs of its own. At this time, however, Pasco County has no plans to use ash in any other process or product.

5. Hazardous Wastes

Per contractual obligations, as specified by the Amended and Restated Service Agreement between Pasco County and OMSP (dated March 28, 1989,) the facility may neither receive nor burn hazardous waste. The definition of a

"Hazardous Waste" as defined by the Service Agreement, is "any material or substance which, as of the contract Date, and by reason of its composition or characteristics is (a) toxic or hazardous waste as defined in the Solid Waste Disposal Act, 42 USC 6901 et seq., as amended, replaced or superseded, and the regulations implementing same, or (b) material regulated by the Toxic Substances Control Act, 15 USC 2601, et seq., as amended, replaced or superseded, and the regulations implementing same, or (c) special nuclear or by-products material within the meaning of the Atomic Energy Act of 1954. If any governmental agency or unit having appropriate jurisdiction shall determine that substances which are not, as of the Contract Date, considered harmful, toxic, or dangerous, are in fact harmful, toxic, or dangerous, are in fact harmful, toxic or dangerous or are hazardous or harmful to health when Processed at the Facility, then any such substances or materials shall thereafter by Hazardous Waste for purposes of this Service Agreement."

Per the Service Agreement (Section 4.05), the Contractor (OMSP) is responsible for handling any non-processible waste (including hazardous waste) delivered to the facility. In accordance with the Service Agreement (Section 4.08) and to prevent hazardous waste delivery to the facility, the County has adopted an ordinance prohibiting the deliveries of such wastes and will conduct periodic random inspection of vehicles delivering waste to the facility.

In addition to these contractual obligations, Ogden martin Systems of Pasco County has an Unacceptable Waste Screening Protocol (see Attachment 1) which is included as part of the facility's Operation and Maintenance Manual. This protocol establishes methods for screening the incoming waste stream for unacceptable and hazardous wastes.

ATTACHMENT 1

UNACCEPTABLE WASTE SCREENING PROCEDURE

Unacceptable waste screening will be conducted on a random basis as necessary to ensure compliance with the Unacceptable Waste Program.

Prerequisites

1. Safety equipment including appropriate personnel protective gear (i.e., Scott Air Packs, respirators, protective clothing, gloves, boots, first aid kit, etc.), emergency fire fighting equipment, and clean up equipment will be stored near the tipping floor and be readily available. Appropriate materials (e.g., rope, pylons, etc.) needed to isolate any potentially dangerous waste will also be stored near by and be readily available.
2. The Facility Manager will assign a "trained" employee to serve as Inspector. He will conduct the screening and complete the necessary report.
3. A front end loader and operator will be standing by to help with the screening.

Types of Screening

- I. On-Board Screening (only done on open type vehicles)
 1. The Inspector shall select a vehicle for screening and upon entering the tipping floor inform the driver of this fact.
 2. The driver will be asked to fold back the screens or tarpaulin covering his load.

3. The Inspector shall then position himself such as to obtain the maximum possible view of the load.
4. If the load is observed to contain unacceptable materials, the Inspector will immediately notify the Facility manager or other designated management representative who will inspect the load and determine if the hauler is to be turned away.
5. If the load is acceptable, the driver will be told to discharge into the pit.
6. If unsure, the inspector will direct the driver to a designated area of the Tipping Hall where Floor Screening will be conducted, as described below.
7. The Inspector will complete the Waste Screening Report which will be submitted to the Facility Manager for appropriate disposition. The driver will be asked to sign the Report before leaving the facility.

II. Pit Screening

1. The Inspector shall select a vehicle for screening and inform the driver of this fact.
2. The Inspector shall position himself so as to obtain maximum view of the load as it is discharged into the pit.
3. If unacceptable waste is observed, the crane operator will be directed to remove it for proper disposal.
4. In cases where potentially dangerous materials are found and are considered to present a possible immediate threat (such as explosives or large quantities of infectious materials), no attempt will be made by facility personnel to move these materials. The material will be left in place and that

portion of the tipping floor or tipping bay roped off. personnel and traffic will be prevented from operating in that section of the plant. Danger signs and warnings will be posted. No attempt will be made to open suspect waste containers. The Company will notify appropriate government agencies, including the local Fire and Rescue Department and/or Police Department, for dispatch to the Facility.

5. The Inspector will complete the Waste Screening Report which will be submitted to the Facility Manager for appropriate disposition. The driver will be asked to sign the Report before leaving the facility.

III. Floor Screening

1. The Inspector shall select a vehicle for screening and inform the driver of this fact.
2. The driver shall be directed to a designated area of the Tipping Hall where he will dump and spread his load, ensuring that the complete load is discharged. The front end loader shall be utilized as necessary to spread the load uniformly to a minimal depth.
3. The driver will park his vehicle ensuring that he does not interfere with the existing traffic pattern or impede other haulers.
4. The Inspector will watch the unloading process and, if possible, stop the process if he observes unacceptable or potentially dangerous material.
5. If Unacceptable Waste is found, the Facility manager or designated management representative is to be notified and the hauler may be required to remove it from the facility. A screening report and notice of infraction will be issued as appropriate.

6. The Inspector will complete the Waste Screening Report which will be submitted to the Facility manager for appropriate disposition. The driver will be asked to sign the Report before leaving the facility.
7. After conclusion of screening, acceptable waste will be charged to the pit by the front end loader and the hauler will leave the facility.
8. In cases where potentially dangerous materials are found and considered to present a possible immediate threat (such as explosives or large quantities of infectious materials), no attempt will be made by facility personnel to move these materials. The material will be left in place and that portion of the tipping floor or tipping bay roped off. Personnel and traffic will be prevented from operating in that section of the plant. Danger signs and warnings will be posted. No attempt will be made to open suspect waste containers. The Company will notify appropriate government agencies, including the local Fire and Rescue Department and/or Police Department, for dispatch to the Facility.



PASCO COUNTY, FLORIDA

DADE CITY (904) 521-4274
NEW PORT RICHEY (813) 847-8041

SOLID WASTE/FISCAL SERVICES DEPT.
PASCO COUNTY GOVT. COMPLEX
7536 STATE STREET
NEW PORT RICHEY, FL 34654

December 22, 1992

RECEIVED
DEC 24 1992

Mr. Kim Ford
Florida Department of Environmental Regulation
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619-8318

Department of Environmental Regulation
SOUTH WEST DISTRICT

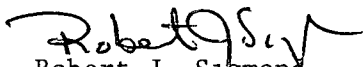
RE: Pasco County Resource Recovery Facility
PA 87-23

Mr. Kim Ford:

Please find attached the quarterly ash testing for the above mentioned facility.
In addition, please find attached the Ash Residue Management Plan.

Any questions, please do not hesitate to call.

Sincerely,


Robert J. Sigmond
Solid Waste/Fiscal
Services Director

RJS/prk

Attachment

cc: Hamilton S. Oven, P.E., Florida Department of Environmental Regulation
2600 Blair Stone Road, Tallahassee, FL 32301, Administration
Coordination Office



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

RESOURCE RECOVERY
HAYS ROAD
HUDSON, FL 34674-
Attn: ROBERT SIGMOND

DATE: 10/21/92

SAMPLE NUMBER- 9684
DATE SAMPLED- 09/25/92
DATE RECEIVED- 09/25/92
RECEIVED BY- TER

SAMPLE ID- RES.REC ASH
TIME SAMPLED- 1300
DELIVERED BY- SCOTT BERGE

RESOURCE RECOVERY ASH ANALYSIS Page 1 of 1

ANALYSIS	METHOD	SAMPLE PREP ANALYSIS			RESULT UNITS	
		DATE	BY	DATE		
ANTIMONY IN SEDIMENT	7041	10/21/92	CEM	10/16/92	TER	90 mg/Kg
ARSENIC IN SEDIMENT	7060	10/21/92	CEM	10/16/92	TER	25.7 mg/Kg
BERYLLIUM IN SED.	7091	10/21/92	CEM	10/16/92	0900 TER	0.60 mg/Kg
CADMIUM IN SEDIMENT	7131	10/21/92	CEM	10/16/92	TER	47.2 mg/Kg
CALCIUM IN SEDIMENT	7140	10/21/92	CEM	10/21/92	TER	63000 MG/KG
CHROMIUM IN SEDIMENT	7191	10/21/92	CEM	10/16/92	TER	61.0 mg/Kg
COPPER IN SEDIMENT	7210	10/21/92	CEM	10/16/92	0800 TER	479.7 mg/kg
IRON IN SEDIMENT	7380	10/21/92	CEM	10/16/92	0900 TER	9503 mg/Kg
LEAD IN SEDIMENT	7421	10/21/92	CEM	10/16/92	TER	1025 mg/Kg
MAGNESIUM IN SED.	7450	10/21/92	CEM	10/16/92	TER	3150 MG/KG
MANGANESE IN SEDIMENT	EPA 243.1	10/21/92	CEM	10/15/92	1000 TER	377 mg/kg
MERCURY IN SEDIMENT	7471	/ /		10/15/92	TER	3.3 mg/Kg
NICKEL IN SEDIMENT	7520	10/21/92	CEM	10/16/92	TER	35.4 mg/Kg
SELENIUM IN SEDIMENT	7740	10/21/92	CEM	10/16/92	1600 TER	0.56 mg/Kg
SILVER IN SEDIMENT	7760	10/21/92	CEM	10/16/92	1600 TER	5.1 mg/Kg
SODIUM IN SEDIMENT	7770	10/21/92	CEM	10/16/92	1600 TER	10250 mg/Kg
THALLIUM IN SEDIMENT	7841	10/21/92	CEM	10/21/92	TER	6.7 mg/Kg
ZINC IN SEDIMENT	7950	10/21/92	CEM	10/16/92	0900 TER	4940 mg/Kg

LABORATORY DIRECTOR 



BROWARD TESTING LABORATORY, INC.

4416 N E 11TH AVE, FORT LAUDERDALE, FLORIDA 33334



Potable Water Laboratory Certification Number 86137
Environmental Laboratory Certification Number 86035

LABORATORY PARAMETER ANALYSIS REPORT

PROJECT: PASCO COUNTY UTILITIES

SOURCE: ASH, RESOURCE RECOVERY CELL A-1
LAB NUMBER: 945-4743
SAMPLED BY: CLIENT

SAMPLE DATE: 9-25-92
SAMPLE TIME:
COMPLETION DATE: 10-20-92

STORET CODE	PARAMETER MONITORED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DATE	ANALYST
	EP TOX METALS:					
	ARSENIC	1310-7060	<0.002	MG/L	10-15	S.A.L.
	BARIUM	1310-7080	0.145	MG/L	10-14	"
	CADMIUM	1310-7131	0.688	MG/L	10-14	"
	CHROMIUM	1310-7191	0.403	MG/L	10-16	"
	LEAD	1310-7421	5.30	MG/L	10-13	"
	MERCURY	1310-7471	4.38	MG/L	10-9	"
	SELENIUM	1310-7741	<0.0013	MG/L	10-8	"
	SILVER	1310-202.2	<0.006	MG/L	10-19	"

REVIEWED BY: *Gary J. Meyer*
Gary J. Meyer, Laboratory Director





PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

RESOURCE RECOVERY
HAYS ROAD
HUDSON, FL 34674-
Attn: ROBERT SIGMOND

DATE: 05/19/92

SAMPLE NUMBER- 6595 SAMPLE ID- RR ASH (SIEVED)
DATE SAMPLED- 05/12/92 TIME SAMPLED- 0800
DATE RECEIVED- 05/12/92 DELIVERED BY- CEM
RECEIVED BY- TER

RESOURCE RECOVERY ASH - SIEVED SAMPLE Page 1 of 1

ANALYSIS	METHOD	SAMPLE PREP ANALYSIS			RESULT UNITS		
		DATE	BY	DATE		TIME	BY
ANTIMONY IN SEDIMENT	7041	05/13/92	TER	05/14/92	1610	TER	135 MG/KG
ARSENIC IN SEDIMENT	7060	05/13/92	TER	05/15/92	1700	TER	35.8 mg/Kg
BARIUM IN SEDIMENT	7080	05/13/92	TER	05/18/92	1020	TER	166.5 mg/Kg
BERYLLIUM IN SED.	7091	05/13/92	TER	05/14/92	1630	TER	0.54 MG/KG
CADMIUM IN SEDIMENT	7131	05/13/92	TER	05/14/92	1420	TER	57.4 mg/Kg
CHROMIUM IN SEDIMENT	7191	05/13/92	TER	05/14/92	1350	TER	51 MG/KG
COPPER IN SEDIMENT	7210	05/13/92	TER	05/14/92	0845	TER	1188 mg/kg
IRON IN SEDIMENT	7380	05/13/92	TER	05/14/92	0930	TER	19700 MG/KG
LEAD IN SEDIMENT	7421	05/13/92	TER	05/14/92	1515	TER	1100 MG/KG
MANGANESE IN SEDIMENT	EPA 243.1	05/13/92	TER	05/14/92	0945	TER	695 mg/kg
MERCURY IN SEDIMENT	7471	/ /		05/13/92	1500	TER	5.21 MG/KG
NICKEL IN SEDIMENT	7520	05/13/92	TER	05/14/92	1045	TER	53 MG/KG
POTASSIUM IN SED.	7610	05/13/92	TER	05/14/92	1120	TER	7695 MG/KG
SELENIUM IN SEDIMENT	7740	05/13/92	TER	05/15/92	1630	TER	1.86 mg/Kg
SILVER IN SEDIMENT	7760	05/13/92	TER	05/14/92	1330	TER	13.8 MG/KG
SODIUM IN SEDIMENT	7770	05/13/92	TER	05/14/92	1105	TER	10180 MG/KG
THALLIUM IN SEDIMENT	7841	05/13/92	TER	05/14/92	1545	TER	20.6 MG/KG
ZINC IN SEDIMENT	7950	05/13/92	TER	05/14/92	1020	TER	7010 MG/KG

LABORATORY DIRECTOR



BROWARD TESTING LABORATORY, INC.

4416 N E 11TH AVE, FORT LAUDERDALE, FLORIDA 33334



Potable Water Laboratory Certification Number 86137
Environmental Laboratory Certification Number 86035

LABORATORY PARAMETER ANALYSIS REPORT

PROJECT: PASCO COUNTY UTILITIES

SOURCE: RESOURCE RECOVERY, CELL A-1, ASH
LAB NUMBER: 942-2545
SAMPLED BY: CLIENT

SAMPLE DATE: 6-3-92
SAMPLE TIME: 2:30
COMPLETION DATE: 6-25-92

EP TX

STORET CODE	PARAMETER MONITORED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DATE	ANALYST
01002	ARSENIC	1310-7060	0.026	MG/L	6-16	E.G.
01007	BARIUM	1310-208.2	0.21	MG/L	6-9	E.G.
01027	CADMILM	1310-7131	0.48	MG/L	6-18	E.G.
01034	CHROMIUM	1310-7191	0.015	MG/L	6-18	E.G.
01051	LEAD	1310-7421	10.3	MG/L	6-19	E.G.
71900	MERCURY	1310-7471	0.0019	MG/L	6-17	E.G.
01147	SELENIUM	1310-7740	0.27	MG/L	6-15	E.G.
01077	SILVER	1310-272.2	0.017	MG/L	6-23	S.A.L.

REVIEWED BY:

Gary J. Meyer

Gary J. Meyer, Laboratory Director





PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

RESOURCE RECOVERY
HAYS ROAD
HUDSON, FL 34674-
Attn: ROBERT SIGMOND

DATE: 08/04/92

SAMPLE NUMBER- 7145
DATE SAMPLED- 06/03/92
DATE RECEIVED- 06/03/92
RECEIVED BY- CEM

SAMPLE ID- RES/REC ASH
TIME SAMPLED- 1430
DELIVERED BY- SHA WILBUR

RESOURCE RECOVERY ASH ANALYSIS Page 1 of 1

ANALYSIS	METHOD	SAMPLE PREP ANALYSIS				RESULT UNITS
		DATE	BY	DATE	TIME BY	
ANTIMONY, TOTAL	204.2	06/04/92	TER	06/08/92	1550 TER	130.2 mg/L
ARSENIC, TOTAL	206.2	06/04/92	TER	06/09/92	1540 TER	34.3 mg/L
BERYLLIUM, TOTAL	210.2	06/04/92	TER	06/09/92	1630 TER	0.16 mg/L
CADMIUM, TOTAL	213.2	06/04/92	TER	06/08/92	1500 TER	49.8 mg/L
CALCIUM, TOTAL	215.1	06/04/92	TER	06/08/92	1100 TER	75567 mg/L
CHROMIUM, TOTAL	218.2	06/04/92	TER	06/08/92	1435 TER	57.5 mg/L
COPPER, TOTAL	220.2	06/04/92	TER	06/08/92	0830 TER	990 mg/L
IRON, TOTAL	236.2	06/04/92	TER	06/08/92	0900 TER	29252 mg/L
LEAD, TOTAL	239.2	06/04/92	TER	06/08/92	1530 TER	1307 mg/L
MAGNESIUM, TOTAL	242.1	06/04/92	TER	06/08/92	1120 TER	4310 mg/L
MANGANESE, TOTAL	243.2	06/04/92	TER	06/08/92	0950 TER	490 mg/L
MERCURY, TOTAL	245.1	/ /		06/05/92	1540 TER	3.8 mg/L
NICKEL, TOTAL	249.2	06/04/92	TER	06/08/92	1010 TER	47.7 mg/L
SELENIUM, TOTAL	270.2	06/04/92	TER	06/09/92	1500 TER	1.65 mg/L
SILVER, TOTAL	272.2	06/04/92	TER	06/08/92	1410 TER	5.6 mg/L
SODIUM, TOTAL	273.1	06/04/92	TER	06/08/92	1141 TER	7537 mg/L
THALLIUM, TOTAL	279.2	06/04/92	TER	06/08/92	1620 TER	19.5 mg/L
ZINC, TOTAL	289.1	06/04/92	TER	06/08/92	0930 TER	6197 mg/L

exceed 1" + 2" drinking water std
exceeds EPTO corr for haz waste

LABORATORY DIRECTOR *Cordia E. Miller*



BROWARD TESTING LABORATORY, INC.

POST OFFICE BOX 23541 FORT LAUDERDALE, FLORIDA 33307



Potable Water Laboratory Certification Number 86137
Environmental Laboratory Certification Number 86035

LABORATORY PARAMETER ANALYSIS REPORT

PROJECT: PASCO COUNTY UTILITIES

SOURCE: RESOURCE RECOVERY ASH
LAB NUMBER: 929-1302
SAMPLED BY: CLIENT

SAMPLE DATE: 3-20-92
SAMPLE TIME: 1235
COMPLETION DATE: 4-27-92

STORET CODE	PARAMETER MONITORED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DATE	ANALYST
-------------	---------------------	-----------------	-----------------	-------	------	---------

EP TOX METALS:

01030	CHROMIUM	1310-7191	0.0024	MG/L	4-10	E.G.
01005	BARIUM	1310-208.2	0.16	MG/L	3-29	E.G.
01025	CADMIUM	1310-7131	0.76	MG/L	4-10	E.G.
01000	ARSENIC	1310-206.2	0.025	MG/L	3-31	E.G.
01049	LEAD	1310-7421	3.98	MG/L	4-7	S.A.L.
71890	MERCURY	1310-7470	27.8	MG/L	4-6	E.G.
01145	SELENIUM	1310-7740	0.022	MG/L	4-1	E.G.
01075	SILVER	1310-272.2	0.0045	MG/L	4-13	E.G.

REVIEWED BY:

Gary J. Meyers
Gary J. Meyers, Laboratory Director





PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

RESOURCE RECOVERY
HAYS ROAD
HUDSON, FL 34674-

DATE: 01/15/92
DHRS # 54237, E44123

Attn: ROBERT SIGMOND

RESOURCE RECOVERY ASH ANALYSIS QIV 1991

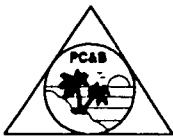
SAMPLE NUMBER- 4305
DATE SAMPLED- 12/18/91
DATE RECEIVED- 12/18/91
RECEIVED BY- CEM

SAMPLE ID- RES REC ASH
TIME SAMPLED- 0900
DELIVERED BY- SHA WILBUR
SAMPLED BY- SHA WILBUR

Page 1 of 1

ANALYSIS	METHOD	SAMPLE PREP ANALYSIS			RESULT UNITS
		DATE	BY	DATE	
ANTIMONY IN SEDIMENT	7041	01/09/92	TER	01/06/92 1030	TER 114 MG/KG
ARSENIC IN SEDIMENT	7060	01/09/92	TER	01/07/92 1010	TER 22.6 mg/Kg
BERYLLIUM IN SED.	7091	01/09/92	TER	01/06/92 1445	TER 5.8 MG/KG
CADMIUM IN SEDIMENT	7131	01/09/92	TER	01/06/92 0940	TER 61 mg/Kg
CALCIUM IN SEDIMENT	7140	01/09/92	TER	01/06/92 1115	TER 65440 MG/KG
CHROMIUM IN SEDIMENT	7191	01/09/92	TER	01/03/92 1410	TER 44.7 MG/KG
COPPER IN SEDIMENT	7210	01/09/92	TER	01/03/92 1450	TER 328 mg/kg
IRON IN SEDIMENT	7380	01/09/92	TER	01/03/92 1545	TER 11790 MG/KG
LEAD IN SEDIMENT	7421	01/09/92	TER	01/06/92 1010	TER 773 MG/KG
MAGNESIUM IN SED.	7450	01/09/92	TER	01/06/92 1200	TER 2270 MG/KG
MANGANESE IN SEDIMENT	EPA 243.1	01/09/92	TER	01/03/92 1620	TER 258 mg/kg
MERCURY IN SEDIMENT	7471	/ /		01/08/92 1410	TER 12 MG/KG
NICKEL IN SEDIMENT	7520	01/09/92	TER	01/06/92 0830	TER 147 MG/KG
SELENIUM IN SEDIMENT	7740	01/09/92	TER	01/07/92 1100	TER 25.6 MG/KG
SILVER IN SEDIMENT	7760	01/09/92	TER	01/06/92 0845	TER 9 MG/KG
SODIUM IN SEDIMENT	7770	01/09/92	TER	01/06/92 1405	TER 6710 MG/KG
THALLIUM IN SEDIMENT	7841	01/09/92	TER	01/06/92 1050	TER 5 MG/KG
ZINC IN SEDIMENT	7950	01/09/92	TER	01/03/92 1640	TER 3588 MG/KG

LABORATORY DIRECTOR



PC&B Environmental Laboratories, Inc.

3401 Lake Breeze Road, Orlando, Florida 32808

Phone: 407-290-3245 Fax: 407-297-6924

April 20, 1992

CLIENT: Pasco County Environmental Lab
8864 Government Dr.
New Port Richey, FL 34654

CONTACT: Candy Mulhern

PROJECT NAME: Resource Recovery Ash
PROJECT NUMBER: NA

REFERENCE: Work Order Number 9203094

<u>Lab Sample Number</u>	<u>Matrix</u>	<u>Client ID</u>	<u>Date/Time Sampled</u>	
9203094-1	Ash	RR-Ash	03-20-92	12:35
9203094-2	Ash	Ash-D	03-20-92	12:35
9203094-3	Ash	Ash-D	03-20-92	12:35

Parameters

3 EPA 8280 Dioxin

Declan Cowley
Laboratory Director

PC&B Environmental Laboratories, Inc.
 3401 Lake Breeze Road
 Orlando Fl 32808
 PHONE : 407-290-3245

DIOXINS/FURANS

CLIENT NAME : PASCO COUNTY ENVIRONMENTAL LAB
 PROJECT NAME : RESOURCE RECOVERY ASH
 PROJECT NUMBER : NA
 DATE RECEIVED : 03-23-92

Lab Reference Number	9203094-1	9203094-2	9203094-3
Client Sample ID	RR-ASH	ASH (D)	ASH (D)
Date Sampled	03-20-92	03-20-92	03-20-92
Date Extracted	NA	NA	NA
Date Analyzed	NA	NA	NA
Confirmed	GCMS	GCMS	GCMS
Matrix	ASH	ASH	ASH
<hr/>			
Tetra CDD	0.57 U	0.59 U	0.60 U
Tetra CDF	0.57 U	0.59 U	0.60 U
Penta CDD	0.57 U	0.59 U	0.60 U
Penta CDF	0.57 U	0.59 U	0.60 U
Hexa CDD	0.57 U	0.59 U	0.60 U
Hexa CDF	0.57 U	0.59 U	0.60 U
Hepta CDD	1.15 U	1.18 U	1.19 U
Hepta CDF	1.15 U	1.18 U	1.19 U
Octa CDD	1.15 U	1.18 U	1.19 U
Octa CDF	1.15 U	1.18 U	1.19 U

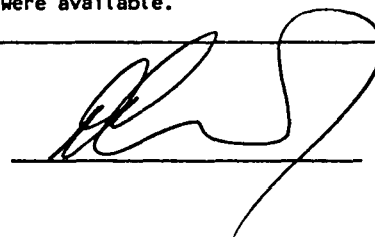
Result Units	ug/kg	ug/kg	ug/kg
% Moisture	11	15	16
Dilution Factor	1	1	1

Soil results reported on a dry weight basis for those samples for which moisture values were available.

U = indicates the compound was analysed for, but not detected at the specified value.

CompQAP #900134G/E83239/83353

REVIEWED BY :





BROWARD TESTING LABORATORY, INC.
 POST OFFICE BOX 23541 FORT LAUDERDALE, FLORIDA 33307



Potable Water Laboratory Certification Number 86137
 Environmental Laboratory Certification Number 86035

LABORATORY PARAMETER ANALYSIS REPORT

PROJECT: PASCO COUNTY UTILITIES

SOURCE: RESOURCE RECOVERY A-1 CELL ASH SAMPLE DATE: 12-18-91
 LAB NUMBER: 936-5591 SAMPLE TIME: 9:00
 SAMPLED BY: CLIENT COMPLETION DATE: 1-30-91

STORET CODE	PARAMETER MONITORED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DATE	ANALYST
01077	SILVER	1310-272.2	0.0020	MG/L	1-14	EG
01002	ARSENIC	1310-7061	0.246	MG/L	1-21	NTL
01012	BERYLLIUM	1310-7091	0.0041	MG/L	1-28	EG
01027	CADMIUM	1310-7131	0.49	MG/L	1-13	EG
01034	CHROMIUM	1310-7191	0.28	MG/L	1-13	EG
01042	COPPER	1310-7210	1.07	MG/L	1-15	EG
71900	MERCURY	1310-7470	0.013	MG/L	1-22	EG
01067	NICKEL	1310-249.2	0.11	MG/L	1-23	EG
01051	LEAD	1310-7421	3.29	MG/L	1-9	EG
01097	ANTIMONY	1310-7041	0.63	MG/L	1-28	EG
01147	SELENIUM	1310-7741	<0.002	MG/L	1-21	EG
01059	THALLIUM	1310-7841	<0.0002	MG/L	1-28	EG
01092	ZINC	1310-7950	100.0	MG/L	1-16	EG

REVIEWED BY: *Gary J. Meyer*
 Gary J. Meyer, Laboratory Director



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

RESOURCE RECOVERY
HAYS ROAD
HUDSON, FL 34674-

DATE: 12/11/91
DHRS # 54237, E44123

Attn: ROBERT SIGMOND

RESOURCE RECOVERY ASH MONITORING - QIII 1991

SAMPLE NUMBER- 2482
DATE SAMPLED- 09/05/91
DATE RECEIVED- 09/06/91
RECEIVED BY- CEM

SAMPLE ID- RES REC. ASH
TIME SAMPLED- 1115
DELIVERED BY- SHA WILBUR
SAMPLED BY- SHA WILBUR

Page 1 of 1

ANALYSIS	METHOD	SAMPLE PREP		ANALYSIS		BY	RESULT UNITS
		DATE	BY	DATE	TIME		
ANTIMONY, TOTAL	204.2	09/06/91	TER	09/30/91		FH	0.81 mg/L
ARSENIC, TOTAL	206.2	09/06/91	TER	09/30/91		FH	0.29 mg/L
BERYLLIUM, TOTAL	210.2	09/06/91	TER	09/30/91		FH	<0.05 mg/L
CADMIUM, TOTAL	213.2	09/06/91	TER	09/30/91		FH	0.94 mg/L
CHROMIUM, TOTAL	218.2	09/06/91	TER	09/30/91		FH	0.49 mg/L
COPPER, TOTAL	220.2	09/06/91	TER	09/30/91		FH	1.60 mg/L
LEAD, TOTAL	239.2	09/06/91	TER	09/30/91		FH	5.03 mg/L
MERCURY, TOTAL	245.1	/ /		09/30/91		CEM	19.9 mg/L
NICKEL, TOTAL	249.2	09/06/91	TER	09/30/91		FH	0.67 mg/L
SELENIUM, TOTAL	270.2	09/06/91	TER	09/30/91		FH	0.16 mg/L
SILVER, TOTAL	272.2	09/06/91	TER	09/30/91		FH	0.0040 mg/L
THALLIUM, TOTAL	279.2	09/06/91	TER	09/30/91		FH	0.047 mg/L
ZINC, TOTAL	289.1	09/06/91	TER	09/30/91		FH	99.2 mg/L

LABORATORY DIRECTOR



Potable Water Laboratory Certification Number 86137
 Environmental Laboratory Certification Number 86035

LABORATORY PARAMETER ANALYSIS REPORT

PROJECT: PASCO COUNTY UTILITIES

SOURCE: RESOURCE RECOVERY ASH
 LAB NUMBER: 933-3890
 GROUND WATER CLASS:
 SAMPLED BY: CLIENT
 NO. WELL CASING VOL. PURGED:

SAMPLE DATE: 9-5-91
 SAMPLE TIME: 11:30
 COMPLETION DATE: 10-10-91
 SAMPLE TYPE: () BACKGROUND
 () SITE BOUNDRY
 () INTERMEDIATE
 () COMPLIANCE

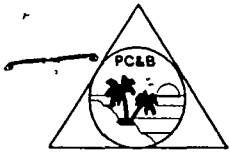
STORET CODE	PARAMETER MONITORED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DATE	ANALYST
-------------	---------------------	-----------------	-----------------	-------	------	---------

EP TOX METALS:

01002	ARSENIC	1310-7060	0.29	MG/L	9-16	E.G.
01097	ANTIMONY	1310-7041	0.81	"	9-20	"
01012	BERYLLIUM	1310-7090	<0.05	"	10-9	"
01027	CADMIUM	1310-7131	0.94	"	9-12	"
01034	CHROMIUM	1310-7191	0.49	"	9-12	"
01024	COPPER	1310-7210	1.60	"	9-27	NTL
01051	LEAD	1310-7421	5.03	"	9-18	E.G.
71900	MERCURY	1310-7470	19.9	"	9-28	"
01067	NICKEL	1310-7510	0.67	"	9-18	"
01147	SELENIUM	1310-7740	0.16	"	9-17	"
01077	SILVER	1310-7760	0.0040	"	9-12	"
01059	THALLIUM	1310-7841	0.047	"	9-20	"
01092	ZINC	1310-7950	99.2	"	10-10	"

REVIEWED BY: Gary J. Meyer
 Gary J. Meyer, Laboratory Director





PC&B Environmental Laboratories, Inc.

3401 Lake Breeze Road, Orlando, Florida 32808 **PASCO COUNTY**

Phone: 407-290-3245 Fax: 407-297-6924

JUL - 3 1991

ENVIRONMENTAL
DEPARTMENT

July 1, 1991

CLIENT: Pasco County
8864 Government Drive
New Port Richey, Fl 34654

CONTACT: Candia Mulhern
407-423-0504

PROJECT NAME: NA
PROJECT NUMBER: NA

REFERENCE: Work Order Number 9106012

PURCHASE ORDER #: 71388

Samples consisting of 2 soils were received at PC&B Environmental Laboratories on June 5, 1991 in good condition.

Lab Sample Number	Matrix	Client ID	Date/Time Sampled
9106012-1	Soil	Ash Site A	6-03-91 12:20
9106012-2	Soil	Ash Site B	6-03-91 12:25

Parameters

2 EPA 8280 Dioxins

Declan Cowley
Laboratory Director

PC&B Environmental Laboratories, Inc.
3401 Lake Breeze Road
Orlando FL 32808
PHONE : 407-290-3245
REPORT DATE : 07-01-1991

DIOXINS/FURANS

CLIENT NAME : PASCO COUNTY ENV. LAB.
PROJECT NAME : NA
PROJECT NUMBER : PO#71388
DATE RECEIVED : 6-05-91
PROTOCOL : 8280

Lab Reference Number	9106012-1	9106012-2
Client Sample ID	ASH SITE A	ASH SITE B
Date Sampled	6-03-91	6-03-91
Confirmed	YES	YES
Matrix	ASH	ASH

Tetra CDD	0.05 U	0.05 U
Tetra CDF	0.05 U	0.05 U
Penta CDD	0.05 U	0.05 U
Penta CDF	0.05 U	0.05 U
Hexa CDD	0.05 U	0.05 U
Hexa CDF	0.05 U	0.05 U
Hepta CDD	1.00 U	1.00 U
Hepta CDF	1.00 U	1.00 U
Octa CDD	1.00 U	1.00 U
Octa CDF	1.00 U	1.00 U

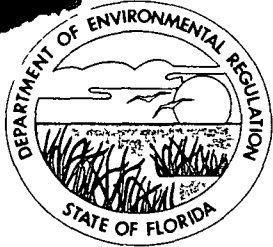
Analysed under HRS Certification #'s: 81291, 87279, E81005, E87052

Result Units	ug/kg	ug/kg
% Moisture	18	15
Dilution Factor	1	1

Soil results reported on a dry weight basis for those samples for which moisture values were available.

REVIEWED BY : 

FILE



Florida Department of Environmental Regulation

Twin Towers Office Bldg • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Lawton Chiles, Governor

Carol M. Browner, Secretary

December 23, 1992

D. E. R.

DEC 28 1992

SOUTHWEST DISTRICT
TAMPA

Mr. George Ellsworth
Resource Recovery Manager
Pasco County Utilities Division
7536 State Street
New Port Richey, Florida 33553

Re Pasco County Waste to Energy Facility
PA 87-23

Dear Mr. Ellsworth:

We have been informed by the Department's Southwest District Office that they were notified by Mr. John Power of Ogden-Martin Systems that ash sampling and testing has been discontinued at the Pasco County Waste to Energy Facility. The reason given is that the County does not have an approved quality assurance plan for this facility. There is no requirement for the County to have a quality assurance plan for ash residue testing. However, the facility must be in compliance with Category 2C of Chapter 17-160, F.A.C. which requires the analytical laboratory conducting the chemical analyses to have an approved quality assurance plan.

Conditions of Certification XIV E 9 and XIV E 10 require ash residue analysis reports be submitted to the Department by the County on a quarterly basis. Failure to comply with this requirement constitutes a violation of the Certification to operate the facility.

If you have any questions concerning these matters, please contact Bob Butera, P.E. in our District Office in Tampa at (813)744-6100.

Sincerely,

Steven L. Palmer, P.E.
Siting Coordination Office

cc Bob Butera, P.E.
Mary Jean Yon
Richard Donelan
Hamilton Owen, P.E.

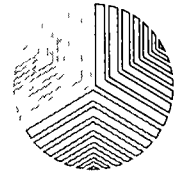
OGDEN MARTIN SYSTEMS
OF PASCO, INC.

14230 HAYS ROAD
SPRING HILL, FL 34610

TEL (813) 856-2917
FAX (813) 856-0007

August 25, 1993

RECEIVED
AUG 26 1993



AN OGDEN PROJECTS
COMPANY

Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

Mr Kim Ford
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, FL 33619-8318

Dear Mr. Ford:

Enclosed is the analysis of the quarterly ash tests for 1992 for the Pasco County Resource Recovery Facility. This report demonstrates compliance with 17-702-570 (2) Florida Ash Residue Disposal Requirements.

Please contact me at (813) 856-2917 if you have any comments or questions.

Sincerely,

John Power
Regional Environmental Coordinator

JP/fm

CC: D. Lehman
S. Bass
B. Sitz/w copy
File

PASCO COUNTY
RESOURCE RECOVERY FACILITY

FACILITY REPORTED WTE ASH - TCLP RESULTS

TCLP Metal	Sample Date	Sample Identification	Arsenic mg/l	Barium mg/l	Cadmium mg/l	Chromium mg/l	Lead mg/l	Mercury mg/l	Selenium mg/l	Silver mg/l
Run 1	7/24/94	#1A	< 0.020	0.950	< 0.002	0.016	< 0.020	< 0.001	< 0.040	< 0.004
Run 2	7/24/94	#2A	< 0.020	0.720	< 0.002	0.032	< 0.020	< 0.001	< 0.040	< 0.004
Run 3	7/25/94	#1A	< 0.020	0.430	< 0.002	< 0.004	< 0.020	< 0.001	< 0.040	< 0.004
Run 4	7/25/94	#2A	< 0.020	0.530	0.021	0.043	< 0.020	< 0.001	< 0.040	< 0.004
Run 5	7/26/94	#1A	< 0.020	0.380	< 0.002	< 0.004	0.100	< 0.001	< 0.040	< 0.004
Run 6	7/26/94	#2A	< 0.020	0.450	< 0.002	< 0.004	< 0.020	< 0.001	< 0.040	< 0.004
Run 7	7/27/94	#1A	< 0.020	0.400	< 0.002	< 0.004	0.120	< 0.001	< 0.040	< 0.004
Run 8	7/27/94	#2A	< 0.020	0.510	< 0.002	< 0.004	< 0.020	< 0.001	< 0.040	< 0.004
Run 9	7/28/94	#1A	< 0.020	0.710	0.002	< 0.004	< 0.020	< 0.001	< 0.040	< 0.004
Run 10	7/28/94	#2A	< 0.020	0.540	< 0.002	0.017	< 0.020	< 0.001	< 0.040	< 0.004
Run 11	7/29/94	#1A	< 0.020	0.390	0.004	< 0.004	< 0.020	< 0.001	< 0.040	< 0.004
Run 12	7/29/94	#2A	< 0.020	0.600	< 0.002	< 0.004	< 0.020	< 0.001	< 0.040	< 0.004
Run 13	7/30/94	#1A	< 0.020	0.390	< 0.002	< 0.004	0.050	< 0.001	< 0.040	< 0.004
Run 14	7/30/94	#2A	< 0.020	0.420	< 0.002	< 0.004	< 0.020	< 0.001	< 0.040	< 0.004
MEAN			0.020	0.530	0.004	0.011	0.030	0.001	0.040	0.004
STANDARD DEVIATION			9.00E-04	0.170	0.005	0.012	0.030	4.00E-05	2.00E-03	2.00E-04
UPPER CONFIDENCE INTERVAL (90%)			0.020	0.590	0.005	0.015	0.050	8.00E-04	0.040	0.004
REGULATORY LIMIT			5.000	100.000	1.000	5.000	5.000	0.200	1.000	5.000
RESULT			Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Note

- (1) Air Pollution Control Equipment Dry Acid Gas Scrubber & Fabric Filter
 - (2) No conditioning of "combined" ash prior to laboratory analysis for RCRA metals
 - (3) If chemical analyzed was found to be below detection level then the number used for statistical analysis is one half the detection level
 - (4) Correction factors were used for noncrushable weight discarded and moisture content
 - (5) Test for normal statistical distribution has been applied for all of the above RCRA metals All metals exhibit normal distribution
- < = Below detection level

TABLE 5
PASCO COUNTY RESOURCE RECOVERY FACILITY
TOTAL METALS ANALYSES

SAMPLE DATE	ANALYTICAL PARAMETERS								
	Arsenic mg/kg dry	Barium mg/kg - dry	Cadmium mg/kg dry	Chromium mg/kg - dry	Lead mg/kg - dry	Mercury mg/kg - dry	Selenium mg/kg dry	Silver mg/kg dry	
3/24/92	23 0	NA	34 0	26 0	800	2 3	< 10 0	3 0	
8/20/92	130 0	NA	26 0	54 0	1,500	1 5	< 3 0	3 0	
8/20/92	8 7	NA	NA	NA	NA	1 5	< 3 0	NA	
12/22/92	< 50 0	NA	39 0	38 0	1,200	4 9	< 1 0	9 0	
12/22/92	< 50 0	NA	33 0	43 0	630	3 1	< 1 0	8 0	
2/24/93	29 0	NA	27 0	53 0	500	4 3	< 1 0	8 0	
5/28/93	38 0	NA	26 0	60 0	1,300	< 0 1	< 1 0	2 0	
7/18/93	13 0	NA	24 0	40 0	710	2 3	< 50 0	2 0	
10/25/93	18 0	NA	28 0	29 0	340	4 1	< 50 0	2 0	
1/25/94	27 0	NA	39 0	31 0	1,000	2 2	< 50 0	3 0	
3/23/94	43 4	NA	62 9	59 4	1,270	4 2	3 7	6 9	
6/21/94	55 0	NA	37 0	43 0	690	0 4	< 50 0	5 0	
8/30/94	36 0	NA	44 0	43 0	1,000	2 0	58 0	3 0	
12/8/94	32 0	NA	44 0	70 0	790	2 0	< 50 0	8 0	
MIN OF DETECTS	8 7	NA	24 0	26 0	340	0 4	3 7	2 0	
MAX OF DETECTS	130 0	NA	62 9	70 0	1,500	4 9	58 0	9 0	
AVE OF DETECTS	37 8	NA	35 7	45 3	902	2 7	30 8	4 8	
# OF DETECTS	12	NA	13	13	13	13	2	13	

Note

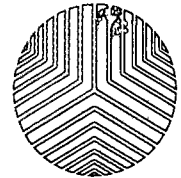
< = Detection Limit

NA = Not Analyzed

OGDEN MARTIN SYSTEMS
OF PASCO, INC.

1387 HAYS ROAD
SPRING HILL, FL 34610

PO BOX 5478
HUDSON, FL 34674
(813) 856-2917



AN OGDEN
PROJECTS COMPANY

April 13, 1994

Ms. Allison Amram, P.G.
Florida Department of Environmental Protection
Southwest District Waste Management Program
3804 Coconut Palm Drive
Tampa, Florida 33619-8318

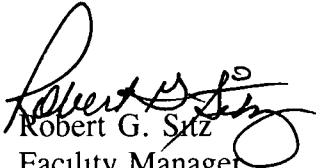
RECEIVED
APR 15 1994

Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

Dear Ms Amram:

Enclosed, please find a copy of the Annual Ash Residue Analysis Report for the Pasco County Resource Recovery Facility. This report is submitted in accordance with Rule 17-702.570(4), of the Florida Administrative Code. If you have any questions, or if additional information is required, please contact either myself or Mr. Jason Gorrie at (813) 856-2917.

Sincerely,


Robert G. Sitz
Facility Manager

RGS/JMG/

enclosure

cc: J Gorrie
D Lehman
R Tullh

\\pasco\ashreprt ltr



REPORT OF LABORATORY ANALYSIS

April 07, 1995

Mr. Jason Gorrie
Ogden Martin Systems of Pasco
14230 Hays Road
Spring Hill, FL 34610-7630

RE. PACE Project No. 250104 502
Client Reference: Pasco First Quarter 1995 Ash

Dear Mr. Gorrie:

Enclosed is the report of laboratory analyses for samples received
January 06 - March 15, 1995

Footnotes are given at the end of the report

If you have any questions concerning this report, please feel free
to contact us

Sincerely,

A handwritten signature in cursive script that reads "Martha L. Golby".

Martha L. Golby
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

Ogden Martin Systems of Pasco
14230 Hays Road
Spring Hill, FL 34610-7630

April 07, 1995
PACE Project Number 250104502

Attn. Mr Jason Gorrie

Client Reference Pasco First Quarter 1995 Ash

PACE Sample Number: 90 0594402
Date Collected. 01/05/95
Date Received 01/06/95
Client Sample ID January 95

Parameter Units PRI Composite DATE ANALYZED

ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Date Compositied 03/27/95



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 2

April 07, 1995
PACE Project Number: 250104502

Client Reference: Pasco First Quarter 1995 Ash

PACE Sample Number 90 0594410
Date Collected: 02/27/95
Date Received: 02/27/95
Client Sample ID: February95

<u>Parameter</u>	<u>Units</u>	<u>PRI</u>	<u>Composite</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Date Composited 03/27/95



REPORT OF LABORATORY ANALYSIS

Mr Jason Gorrie
Page 3

April 07, 1995
PACE Project Number 250104502

Client Reference: Pasco First Quarter 1995 Ash

PACE Sample Number. 90 0594429
Date Collected. 03/15/95
Date Received: 03/15/95
Client Sample ID: March 95

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Composite</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	------------------	----------------------

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Date Digested - Mercury			03/29/95	
Mercury-7471	mg/kg	0.1	1 2	03/29/95
Moisture	%	0.01	14	03/30/95

ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Date Compositing			03/27/95	
------------------	--	--	----------	--



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 4

April 07, 1995
PACE Project Number: 250104502

Client Reference: Pasco First Quarter 1995 Ash

PACE Sample Number: 90 0594437
 Date Collected: 03/15/95
 Date Received: 03/15/95
 Client Sample ID: 1st QTR 95
Parameter Units PRI Composite DATE ANALYZED

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Moisture	%	0.01	15	03/30/95
----------	---	------	----	----------

PRIORITY POLLUTANT LIST METALS

Antimony-6010/ICP	mg/kg	20	64	03/31/95
Arsenic-7060	mg/kg	1.0	18	03/29/95
Beryllium-6010/ICP	mg/kg	4	ND	03/31/95
Cadmium-6010/ICP	mg/kg	0.5	35	03/31/95
Chromium-6010/ICP	mg/kg	5	33	03/31/95
Copper-6010/ICP	mg/kg	5	1000	03/31/95

Lead-6010/ICP	mg/kg	10	740	03/31/95
Mercury-7471	mg/kg	0.1	1.4	03/29/95
Nickel-6010/ICP	mg/kg	10	35	03/31/95
Selenium-6010/ICP	mg/kg	59	ND	03/31/95
Silver-6010/ICP	mg/kg	2	4	03/31/95
Thallium	mg/kg	0.2	ND	04/06/95

Zinc-6010/ICP	mg/kg	2	4100	03/31/95
Date Digested - Mercury			03/29/95	

ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Date Composited			03/27/95	
-----------------	--	--	----------	--



REPORT OF LABORATORY ANALYSIS

Mr Jason Gorrie
Page 5

April 07, 1995
PACE Project Number: 250104502

Client Reference: Pasco First Quarter 1995 Ash

These data have been reviewed and are approved for release

A handwritten signature in black ink, appearing to read "Michael F. Valder".

Michael F. Valder
Manager, Inorganic Chemistry

A handwritten signature in black ink, appearing to read "Michael W. Palmer".

Michael W Palmer
Manager, Organic Chemistry



REPORT OF LABORATORY ANALYSIS

Mr Jason Gorrie
Page 6

FOOTNOTES
for pages 1 through 5

April 07, 1995
PACE Project Number: 250104502

Client Reference. Pasco First Quarter 1995 Ash

ND Not detected at or above the PRL.
PRL PACE Reporting Limit



REPORT OF LABORATORY ANALYSIS

Mr Jason Gorrie
Page 7

QUALITY CONTROL DATA

April 07, 1995
PACE Project Number: 250104502

Client Reference: Pasco First Quarter 1995 Ash

Arsenic-7060
Batch. 90 59695
Samples. 90 0594437

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Method Blank</u>
Arsenic-7060	ug/L	10	ND

SPIKE AND SPIKE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>900599587</u>	<u>Spike</u>	<u>Spike Recv</u>	<u>Spike Dupl Recv</u>	<u>RPD</u>
Arsenic-7060	mg/kg	1.0	ND	4	72%	66%	9%

LABORATORY CONTROL SAMPLE:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Reference Value</u>	<u>Recv</u>
Arsenic-7060	ug/L	10	40	82%



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 8

QUALITY CONTROL DATA

April 07, 1995
PACE Project Number: 250104502

Client Reference: Pasco First Quarter 1995 Ash

Mercury-7471
Batch: 90 59666
Samples: 90 0594429, 90 0594437

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Method Blank</u>
Mercury-7471	ug/L	0.2	ND

SPIKE AND SPIKE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>900599420</u>	<u>Spike</u>	<u>Spike Recv</u>	<u>Dupl Recv</u>	<u>RPD</u>
Mercury-7471	mg/kg	0.1	ND	0.78	78%	76%	3%

LABORATORY CONTROL SAMPLE:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Reference Value</u>	<u>Recv</u>
Mercury-7471	ug/L	0.2	4	100%



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 9

QUALITY CONTROL DATA

April 07, 1995
PACE Project Number: 250104502

Client Reference: Pasco First Quarter 1995 Ash

Moisture
Batch: 90 59686
Samples: 90 0594429, 90 0594437

METHOD BLANK AND SAMPLE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Method</u> <u>Blank</u>	<u>900594380</u>	<u>Duplicate</u> <u>of</u> <u>90 0594380</u>	<u>RPD</u>
Moisture	%	0.01	0	20	21.7	8%



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 10

QUALITY CONTROL DATA

April 07, 1995
PACE Project Number: 250104502

Client Reference: Pasco First Quarter 1995 Ash

Selenium-6010/ICP
Batch: 90 59722
Samples 90 0594437

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Method Blank</u>
Antimony ICP	mg/L	0.2	ND
Barium ICP	mg/L	0.3	ND
Beryllium ICP	mg/L	0.004	ND
Cadmium ICP	mg/L	0.005	ND
Chromium ICP	mg/L	0.05	ND
Copper ICP	mg/L	0.05	ND
Lead ICP	mg/L	0.1	ND
Nickel ICP	mg/L	0.1	ND
Selenium-6010/ICP	mg/L	0.5	ND
Silver ICP	mg/L	0.02	ND
Zinc ICP	mg/L	0.02	ND

SPIKE AND SPIKE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>900599587</u>	<u>Spike</u>	<u>Spike Recv</u>	<u>Spike Dupl Recv</u>	<u>RPD</u>
Antimony-6010/ICP	mg/kg	20	ND	210	64%	60%	6%
Barium-6010/ICP	mg/kg	30	ND	63	86%	86%	0%
Beryllium-6010/ICP	mg/kg	3	ND	21	81%	81%	0%
Cadmium-6010/ICP	mg/kg	0.5	ND	63	75%	75%	0%
Chromium-6010/ICP	mg/kg	5	ND	63	81%	81%	0%
Copper-6010/ICP	mg/kg	5	ND	63	87%	86%	1%
Lead-6010/ICP	mg/kg	10	ND	210	79%	78%	1%
Nickel-6010/ICP	mg/kg	10	ND	63	79%	78%	1%
Selenium-6010/ICP	mg/kg	50	ND	105	76%	70%	8%
Silver-6010/ICP	mg/kg	2	ND	63	86%	84%	2%
Zinc-6010/ICP	mg/kg	2	3	63	79%	79%	0%



REPORT OF LABORATORY ANALYSIS

Mr Jason Gorrie
Page 11

QUALITY CONTROL DATA

April 07, 1995
PACE Project Number: 250104502

Client Reference: Pasco First Quarter 1995 Ash

Selenium-6010/ICP
Batch 90 59722
Samples 90 0594437

LABORATORY CONTROL SAMPLE.

<u>Parameter</u>	<u>Units</u>	<u>PRI</u>	<u>Reference Value</u>	<u>Recv</u>
Antimony ICP	mg/L	0.2	1	91%
Barium ICP	mg/L	0.3	1	88%
Beryllium ICP	mg/L	0.004	1	88%
Cadmium ICP	mg/L	0.005	1	87%
Chromium ICP	mg/L	0.05	1	88%
Copper ICP	mg/L	0.05	1	91%
Lead ICP	mg/L	0.1	1	82%
Nickel ICP	mg/L	0.1	1	88%
Selenium-6010/ICP	mg/L	0.5	1	95%
Silver ICP	mg/L	0.02	1	91%
Zinc ICP	mg/L	0.02	1	89%



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 12

QUALITY CONTROL DATA

April 07, 1995
PACE Project Number 250104502

Client Reference: Pasco First Quarter 1995 Ash

Thallium
Batch 90 59829
Samples 90 0594437

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>PRI</u>	<u>Method Blank</u>
Thallium	ug/L	2	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRI</u>	<u>Reference Value</u>	<u>Recv</u>	<u>Dupl Recv</u>	<u>RPD</u>
Thallium	ug/L	2	40	94%	93%	1%



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 13

FOOTNOTES
for pages 7 through 12

April 07, 1995
PACE Project Number: 250104502

Client Reference: Pasco First Quarter 1995 Ash

ND Not detected at or above the PRL.
PRL PACE Reporting Limit
RPD Relative Percent Difference
(1) Matrix interference.



221007.101

Ps 15854

217199

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client DAVID MARTIN

Address _____

Phone _____

Report To Jason Gorrie

Bill To 949204

PO # / Billing Reference PAS 950071

Project Name / No Pasco Co Feb 95

Pace Client No 900107

Pace Project Manager RMR

Pace Project No 250104.502

*Requested Due Date _____

Sampled By (PRINT) WILLIE JACKSON / Pace

Collector Signature W. Jackson Date Sampled 2/27/95

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.
1	#1	1120	Sol	
2	2	1130		
3	3	1140		
4	4	1150		
5	5	1200		
6	6	1210		
7	7	1220		
8	8	1220		

NO OF CONTAINERS		PRESERVATIVES		
UNPRESERVED		H ₂ SO ₄	HNO ₃	VOA
1	1			

ANALYSES REQUESTED
<u>Ballast PPM</u>

REMARKS

COOLER NOS.	BALLETS	SHIPMENT METHOD	RETURNED / DATE
	<u>Ø</u>	<u>air sup</u>	<u>2/27/95</u>

Additional Comments

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
1/8	<u>W. Jackson Pace</u>	<u>W. Jackson Pace</u>	<u>2/27/95</u>	<u>9:30</u>
1-8	<u>W. Jackson Pace</u>	<u>W. Jackson Pace</u>	<u>2/27/95</u>	<u>17:00</u>

SEE REVERSE SIDE FOR INSTRUCTIONS



CHAIN-OF-CUSTODY RECORD
Analytical Request

1534484

211219

Client Name: OSDEN MARTIN

Report To: Jason Gorie

Pace Client No: 900107

Address

Bill To

Pace Project Manager: RML

P.O. # / Billing Reference

Pace Project No: 250104.502

Project Name / No: Psu Co Feb95

*Requested Due Date

Sampled By (PRINT)

HELLE JACKSON Pace

Date Sampled

2/27/95

Client Signature

ITEM NO.

NO OF CONTAINERS

UNPRESERVED
H ₂ SO ₄
HNO ₃
VOA

ANALYSES REQUESTED
8/10/95 RML

REMARKS

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
1	# 17	1400	Soil	1	1				
2	18	1410							
3	19	1420							
4	20	1430							
5	21	1440							
6	22	1450							
7	23	1500							
8	24	1510							



CHAIN-OF-CUSTODY RECORD
Analytical Request

217200

Client Name: OSDEN MARTIN

Report To: Jason Gorie

Pace Client No: 900107

Address

Bill To

Pace Project Manager: RML

P.O. # / Billing Reference

Pace Project No: 250104.502



CHAIN-OF-CUSTODY RECORD
Analytical Request

Report To JASON GORRIS

Pace Client No 90D107

Bill To 949204

Pace Project Manager Juan

P O # / Billing Reference

Pace Project No 250104.502

Project Name / No Pasco 1st Qtr. Feb '95

* Requested Due Date

Sampled By (PRINT)

Operator Signature _____ Date Sampled _____

SAMPLE DESCRIPTION TIME MATRIX PACE NO.

NO OF CONTAINERS	PRESERVATIVES		
	UNPRESERVED	H ₂ SO ₄	HNO ₃
			VOA

ANALYSES REQUESTED
Composite

REMARKS
59441.0

Feb. Monthly Composite

COOLER NOS.	BAILERS	SHIPMENT METHOD	OUT / DATE	RETURNED / DATE	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME

Additional Comments

SEE REVERSE SIDE FOR INSTRUCTIONS

19 407

210



221007.101

19 10 21

204243

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client ORDEN MARTIN

Report To J. Gomis

Pace Client No 900107

Address _____

Bill To 949204

Pace Project Manager EMR

Phone _____

P O # / Billing Reference PAS 950071

Pace Project No 250104.503

Sampled By (PRINT) Willie Jackson / Pace

Sampler Signature _____ Date Sampled 1/5/95

Project Name / No PASO 1st QTR JAN 95

* Requested Due Date _____

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS			REMARKS
					UNPRESERVED	H ₂ SO ₄	HNO ₃	
1	# 1	0905	SOIL					
2	# 2	0915						
3	# 3	0925						
4	# 4	0935						
5	# 5	0945						
6	# 6	0955						
7	# 7	1005						
8	# 8	1015						

Additional Comments

COOLER NOS. _____

BALERS _____

SHIPMENT METHOD _____

OUT DATE Jan 5 1995

RETURNED / DATE _____

ITEM NUMBER _____

RELINQUISHED BY / AFFILIATION _____

ACCEPTED BY / AFFILIATION _____

DATE _____

TIME _____

18 Willie Jackson / Pace 1/5/95 07:00

18 J. Gomis / Pace 1/5/95 16:00

SEE REVERSE SIDE FOR INSTRUCTIONS



ENVIRONMENTAL LABORATORIES

FS 2 of 4

204244

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client OGDEN MARTIN

Report To J. Lewis

Pace Client No 900107

Address

Bill To

Pace Project Manager RMR

P O # / Billing Reference

Pace Project No 25004.562

Phone

Project Name / No Paco 1 Stone JMS

*Requested Due Date

Sampled By (PRINT)

MILLIE JACKSON / Pace

Date Sampled 11/5/95

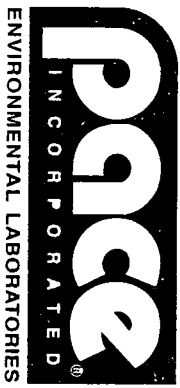
Analyses Request

None

REMARKS

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS	PRESERVATIVES			ANALYSES REQUEST	REMARKS							
						H ₂ SO ₄	HNO ₃	VOA									
1	# 9	1025	Soil		1												
2	# 10	1035			1												
3	# 11	1045			1												
4	# 12	1055			1												
5	# 13	1105			1												
6	# 14	1115			1												
7	# 15	1125			1												
8	# 16	1135			1												
COOLER NOS.		BALLERS		SHIPMENT METHOD		RETURNED / DATE		ITEM NUMBER		RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		DATE		TIME	
Additional Comments <u>Pg 1</u>																	
<u>1811 Pace</u> <u>11/5/95 0740</u> <u>1-311 Pace</u> <u>11/5/95 16:00</u> <u>W. Jackson</u> <u>Pace</u> <u>Q. Parnas</u> <u>MCE</u>																	

SEE REVERSE SIDE FOR INSTRUCTIONS



PB 3884

204245

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client DEDEN MARTIN

Report To J. Ferrie

900107
Pace Client No 444204

Address _____

Bill To _____

Pace Project Manager RML

Phone _____

P.O. # / Billing Reference _____
Project Name / No Phase 1 STATE TMS
Pace Project No 25007508
Requested Due Date _____

Sampled By (PRINT)

WILLIE JACKSON / Face

Date Sampled

W Jackson / 1/5/95

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS			ANALYSES REQUEST	REMARKS
					UNPRESERVED	H ₂ SO ₄	HNO ₃		
1	#17	1145	Soil		1				
2	#18	1155							
3	#19	1205							
4	#20	1215							
5	#21	1225							
6	#22	1235							
7	#23	1245							
8	#24	1255							

COOLER NOS	BALLERS	SHIPMENT METHOD	RETURNED / DATE	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
				18	<u>W Jackson</u> / <u>Face</u>	<u>W Jackson</u> / <u>Face</u>	1/5/95	0740
				1-5	<u>W Jackson</u> / <u>Face</u>	<u>W Jackson</u> / <u>Face</u>	1/5/95	16:00

Additional Comments

SEE REVERSE SIDE FOR INSTRUCTIONS



CHAIN-OF-CUSTODY RECORD
Analytical Request

Page 4 of 4

216748

Client Oxley Martin

Report To Jason Gorrie

Pace Client No 900107

Address _____

Bill To _____

Pace Project Manager JMm

P.O. # / Billing Reference PHS 950071

Pace Project No 250104.502

Phone _____

Project Name / No Pasco 1st Ah. Jan 95

*Requested Due Date _____

Sampled By (PRINT) _____

_____ Date Sampled _____

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS			ANALYSES REQUEST	REMARKS
					UNPRESERVED	H ₂ SO ₄	HNO ₃		
1	_____	_____	_____	_____					
2	<u>Jan. Monthly Composite</u>	_____	_____	_____				<u>Composite</u>	<u>59440.2</u>
3	_____	_____	_____	_____					
4	_____	_____	_____	_____					
5	_____	_____	_____	_____					
6	_____	_____	_____	_____					
7	_____	_____	_____	_____					
8	_____	_____	_____	_____					

COOLER NOS. _____

BAILERS _____

SHIPMENT METHOD _____

RETURNED / DATE _____

ITEM NUMBER _____

RELINQUISHED BY / AFFILIATION _____

ACCEPTED BY / AFFILIATION _____

DATE _____

TIME _____

Additional Comments _____

SEE REVERSE SIDE FOR INSTRUCTIONS



CHAIN-OF-CUSTODY RECORD
Analytical Request

1-3 LVL 54+

216730

Client OG DEN MARTIN

Report to Jason Garcia

Pace Client No 900107

Address _____

Bill To _____

Pace Project Manager RMN

Phone _____

P O # / Billing Reference _____

Project Name / No Faced G March 95
Requested Due Date _____

Sampled By (PRINT) _____

Client Signature _____ Date Sampled _____

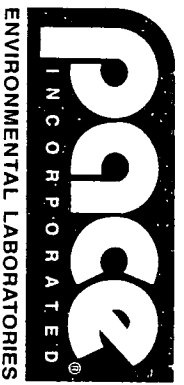
ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS			ANALYSES REQUESTED	REMARKS
					UNPRESERVED	PRESERVATIVES			
					H ₂ SO ₄	HNO ₃	VOA		
1	# 9	12:10	SNV	1				RMN	
2	# 10	12:20		1				RMN	
3	# 11	12:30		1				RMN	
4	# 12	12:40		1				RMN	
5	# 13	12:50		1				RMN	
6	# 14	13:00		1				RMN	
7	# 15	13:10		1				RMN	
8	# 16	13:20		1				RMN	

COOLER NOS. _____ BAILERS _____ SHIPMENT METHOD _____ RETURNED / DATE _____

RELINQUISHED BY / AFFILIATION: 18 H. Paul & Co
ACCEPTED BY / AFFILIATION: Jason Garcia
DATE: 3/10/95 TIME: 9:40

Additional Comments: PS 1

SEE REVERSE SIDE FOR INSTRUCTIONS



ENVIRONMENTAL LABORATORIES

15 5/8 4

216731

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client OG DEN MARTIN

Report To Jason Gorrie

Page Client No 900107

Address

Bill To

Page Project Manager RML

Phone

P O # / Billing Reference

Page Project No 250104.502

Sampled By (PRINT)

Project Name / No Paso G March 95

Requested Due Date

Sampler Signature

Date Sampled

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS			ANALYSES REQUESTED	REMARKS
					UNPRESERVED	PRESERVATIVES			
					H ₂ SO ₄	HNO ₃	VOA		
1	# 17	14:30	Soil						
2	# 18	14:40							
3	# 19	14:50							
4	# 20	14:00							
5	# 21	14:16							
6	# 22	14:20							
7	# 23	14:30							
8	# 24	14:40							

COOLER NOS.	BAILERS	SHIPMENT METHOD	RETURNED DATE	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
				18	<u>Jason Gorrie</u>	<u>W. [Signature]</u>	3/15/95	15:40
				18	<u>Jason Gorrie</u>	<u>W. [Signature]</u>	3/15/95	9:40

SEE REVERSE SIDE FOR INSTRUCTIONS

Fig 4 of 1

216750

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client Ogden Martin
Address _____
City _____
State _____
Zip _____

Report To Jason Gorrice

Client No 900107

Bill To _____

Project Manager Jmw

P.O. # / Billing Reference _____

Project No 250104.502

Project Name / No Pasco March 95

*Requested Due Date _____

Analyst Signature _____ Date Sampled _____

SAMPLE DESCRIPTION

TIME MATRIX PAGE NO.

NO OF CONTAINERS

UNPRESERVED

H₂SO₄

HNO₃

VOA

PRESERVATIVES

ANALYSES REQUEST

REMARKS

March Monthly Composite
1st Qtr 95 Composite

% Moisture
Hg
ppm-S
Composite

59442.9
59443.7

COOLER NOS. _____ BALLERS _____ SHIPMENT METHOD _____ RETURNED / DATE _____

ITEM NUMBEN RELINQUISHED BY / AFFILIATION ACCEPTED BY / AFFILIATION DATE TIME

Comments

July 19, 1995

Mr. Jason Gorrie
Ogden Martin Systems of Pasco
14230 Hays Road
Spring Hill, FL 34610-7630

RE: PACE Project No. 250422.501
Client Reference: Pasco 2nd Quarter 1995 Ash

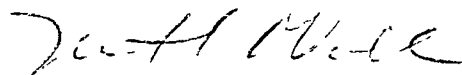
Dear Mr. Gorrie:

Enclosed is the report of laboratory analyses for samples received
April 27 - June 22, 1995.

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free
to contact us.

Sincerely,



Michael F. Valder
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

Ogden Martin Systems of Pasco
14230 Hays Road
Spring Hill, FL 34610-7630

July 19, 1995
PACE Project Number: 250422501

Attn: Mr. Jason Gorrie

Client Reference: Pasco 2nd Quarter 1995 Ash

PACE Sample Number: 90 0615248
Date Collected: 04/25/95
Date Received: 04/27/95
Client Sample ID: APR '95

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Composite</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	------------------	----------------------

ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS
Date Compositied

07/08/95



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 2

July 19, 1995
PACE Project Number: 250422501

Client Reference: Pasco 2nd Quarter 1995 Ash

PACE Sample Number: 90 0634684
Date Collected: 05/26/95
Date Received: 05/26/95
Client Sample ID: MAY '95

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Monthly</u>	<u>Composite</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	----------------	------------------	----------------------

ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Date Composited 07/08/95



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 3

July 19, 1995
PACE Project Number: 250422501

Client Reference: Pasco 2nd Quarter 1995 Ash

PACE Sample Number: 90 0651546
Date Collected: 06/22/95
Date Received: 06/22/95
Client Sample ID: JUNE '95

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Composite</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	------------------	----------------------

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Moisture	%	0.01	14	07/11/95
----------	---	------	----	----------

PRIORITY POLLUTANT LIST METALS

Antimony-6010/ICP	mg/kg	20	100	07/17/95
Arsenic-7060	mg/kg	1.0	42	07/14/95
Beryllium-6010/ICP	mg/kg	3	ND	07/17/95
Cadmium-6010/ICP	mg/kg	0.5	43	07/17/95
Chromium-6010/ICP	mg/kg	5	62	07/17/95
Copper-6010/ICP	mg/kg	5	2800	07/17/95

Lead-6010/ICP	mg/kg	10	630	07/17/95
Mercury-7471	mg/kg	0.1	3.5	07/14/95
Nickel-6010/ICP	mg/kg	10	23000	07/17/95
Selenium-6010/ICP	mg/kg	50	ND	07/17/95
Silver-6010/ICP	mg/kg	2	5	07/17/95
Thallium	mg/kg	0.2	0.2	07/19/95

Zinc-6010/ICP	mg/kg	2	3400	07/17/95
Date Digested - Mercury			07/14/95	

ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Date Compositing			07/08/95	
------------------	--	--	----------	--



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 4

July 19, 1995
PACE Project Number: 250422501

Client Reference: Pasco 2nd Quarter 1995 Ash

PACE Sample Number: 90 0651554
Date Collected: 06/22/95
Date Received: 06/22/95
Client Sample ID: 2nd QTR

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Monthly Composite</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	--------------------------	----------------------

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Date Digested - Mercury			07/14/95	
Mercury-7471	mg/kg	0.1	2.8	07/14/95
Moisture	%	0.01	12	07/11/95

ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Date Compositing			07/08/95	
------------------	--	--	----------	--

These data have been reviewed and are approved for release.

Michael F. Valder
Manager, Inorganic Chemistry

Michael W. Palmer
Manager, Organic Chemistry



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 5

FOOTNOTES
for pages 1 through 4

July 19, 1995
PACE Project Number: 250422501

Client Reference: Pasco 2nd Quarter 1995 Ash

ND Not detected at or above the PRL.
PRL PACE Reporting Limit



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 6

QUALITY CONTROL DATA

July 19, 1995
PACE Project Number: 250422501

Client Reference: Pasco 2nd Quarter 1995 Ash

Arsenic-7060
Batch: 90 62203
Samples: 90 0651546

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Method Blank</u>
Arsenic-7060	ug/L	10	ND

SPIKE AND SPIKE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>900654731</u>	<u>Spike</u>	<u>Spike Recv</u>	<u>Spike Dupl Recv</u>	<u>RPD</u>
Arsenic-7060	mg/kg	1.0	4.5	4	86%	102%	17%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Reference Value</u>	<u>Recv</u>	<u>Dupl Recv</u>	<u>RPD</u>
Arsenic-7060	ug/L	10	40	108%	110%	2%



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 7

QUALITY CONTROL DATA

July 19, 1995
PACE Project Number: 250422501

Client Reference: Pasco 2nd Quarter 1995 Ash

Mercury-7471
Batch: 90 62209
Samples: 90 0651546, 90 0651554

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Method Blank</u>
Mercury-7471	ug/L	0.2	ND

SPIKE AND SPIKE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>900655037</u>	<u>Spike</u>	<u>Spike Recv</u>	<u>Spike Dupl Recv</u>	<u>RPD</u>
Mercury-7471	mg/kg	0.1	ND	0.79	101%	104%	3%

LABORATORY CONTROL SAMPLE:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Reference Value</u>	<u>Recv</u>
Mercury-7471	ug/L	0.2	4	108%



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 8

QUALITY CONTROL DATA

July 19, 1995
PACE Project Number: 250422501

Client Reference: Pasco 2nd Quarter 1995 Ash

Moisture
Batch: 90 62095
Samples: 90 0651546, 90 0651554

SAMPLE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>900629273</u>	Duplicate of <u>90 0629273</u>	<u>RPD</u>
Moisture	%	0.01	13	15	14%



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 9

QUALITY CONTROL DATA

July 19, 1995
PACE Project Number: 250422501

Client Reference: Pasco 2nd Quarter 1995 Ash

Selenium-6010/ICP
Batch: 90 62256
Samples: 90 0651546

METHOD BLANK:

Parameter	Units	PRL	Method Blank
Antimony ICP	mg/L	0.2	ND
Beryllium ICP	mg/L	0.004	ND
Cadmium ICP	mg/L	0.005	ND
Chromium ICP	mg/L	0.05	ND
Copper ICP	mg/L	0.05	ND
Lead ICP	mg/L	0.1	ND
Nickel ICP	mg/L	0.1	ND
Selenium-6010/ICP	mg/L	0.5	ND
Silver ICP	mg/L	0.02	ND
Zinc ICP	mg/L	0.02	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	PRL	900655037	Spike	Spike Recv	Spike Dupl Recv	RPD
Antimony-6010/ICP	mg/kg	20	ND	336	85%	82%	4%
Beryllium-6010/ICP	mg/kg	3	ND	34	91%	88%	3%
Cadmium-6010/ICP	mg/kg	0.5	ND	101	88%	84%	5%
Chromium-6010/ICP	mg/kg	5	ND	101	88%	85%	3%
Copper-6010/ICP	mg/kg	5	ND	101	93%	93%	0%
Lead-6010/ICP	mg/kg	10	ND	336	90%	86%	5%
Nickel-6010/ICP	mg/kg	10	ND	101	90%	86%	5%
Selenium-6010/ICP	mg/kg	50	ND	168	96%	80%	18%
Silver-6010/ICP	mg/kg	2	ND	101	93%	93%	0%
Zinc-6010/ICP	mg/kg	2	15	101	89%	86%	3%

LABORATORY CONTROL SAMPLE:

Parameter	Units	PRL	Reference Value	Recv
Antimony ICP	mg/L	0.2	1	94%
Beryllium ICP	mg/L	0.004	1	97%
Cadmium ICP	mg/L	0.005	1	94%
Chromium ICP	mg/L	0.05	1	93%



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 10

QUALITY CONTROL DATA

July 19, 1995
PACE Project Number: 250422501

Client Reference: Pasco 2nd Quarter 1995 Ash

Selenium-6010/ICP
Batch: 90 62256
Samples: 90 0651546

LABORATORY CONTROL SAMPLE:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Reference Value</u>	<u>Recv</u>
Copper ICP	mg/L	0.05	1	98%
Lead ICP	mg/L	0.1	1	91%
Nickel ICP	mg/L	0.1	1	94%
Selenium-6010/ICP	mg/L	0.5	1	105%
Silver ICP	mg/L	0.02	1	93%
Zinc ICP	mg/L	0.02	1	92%



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 11

QUALITY CONTROL DATA

July 19, 1995
PACE Project Number: 250422501

Client Reference: Pasco 2nd Quarter 1995 Ash

Thallium
Batch: 90 62321
Samples: 90 0651546

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Method Blank</u>
Thallium	ug/L	2	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Reference Value</u>	<u>Recv</u>	<u>Dup1 Recv</u>	<u>RPD</u>
Thallium	ug/L	2	40	99%	109%	10%



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 12

FOOTNOTES
for pages 6 through 11

July 19, 1995
PACE Project Number: 250422501

Client Reference: Pasco 2nd Quarter 1995 Ash

ND Not detected at or above the PRL.
PRL PACE Reporting Limit
RPD Relative Percent Difference

221007.101

151 B

245807

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: Or DEN MARTIN

Report To: GMW

Page Client No: 900107

Address: _____

Bill To: 949204

Page Project Manager: MLE

P O # / Billing Reference

Page Project No: 220404562

Phone: _____

Project Name / No: Pace 2nd Truss

Requested Due Date: _____

Sampled By (PRINT): WILLIE JACKSON Pace

Sampler Signature: _____

Date Sampled: 6/22/05

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS			ANALYSES REQUEST	REMARKS
					UNPRESERVED	H ₂ SO ₄	HNO ₃		
1	# 1	11:50							Comp 1-24
2	# 2	12:00							3rd Month
3	# 3	12:00							2nd Month
4	# 4	12:10							1st Month
5	# 5	12:20							11g-u-s
6	# 6	12:30							11g-d-s
7	# 7	12:40							
8	# 8	12:50							

COOLER NOS.	BAILERS	SHIPMENT METHOD	RETURNED DATE	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
				18	WILLIE JACKSON Pace	WILLIE JACKSON Pace	6/22/05	10:30
				15	WILLIE JACKSON Pace	WILLIE JACKSON Pace	6/21/05	10:45

Additional Comments

COMP. 6/22/05
10:15 AM

10:15 AM

10:15 AM

SEE REVERSE SIDE FOR INSTRUCTIONS



ENVIRONMENTAL LABORATORIES

221007.151

AS 2/3

245808

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client DEBBIE MARTIN

Report To Bob

Page Client No 822107

Address _____

Bill To _____

Page Project Manager 11114

P O # / Billing Reference _____

Page Project No 2511422.57

Phone _____

Project Name / No Pace 2nd QTR 2005

Requested Due Date _____

Sampled By (PRINT) WILLIE JACKSON

Sampler Signature _____

Date Sampled 6/22/05

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.
1	# 9	1300	SW	
2	10	1310		
3	11	1320		
4	12	1330		
5	13	1340		
6	14	1350		
7	15	1400		
8	16	1410		

NO OF CONTAINERS		
UNPRESERVED	H ₂ SO ₄	HNO ₃

PRESERVATIVES	ANALYSES REQUEST
	Comps 1-24

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION
1-8	Willie Jackson Pace	Debbie Martin Pace

REMARKS

* Composite 1-24
3rd Month
So Moist.
115-u-s
113-d-s

COOLER NOS.	BAILERS	SHIPMENT METHOD	RETURNED DATE

DATE	TIME
6/22/05	10:30

Additional Comments

1-8 Willie Jackson Pace 6/22/05 10:30
1-8 Debbie Martin Pace 6/22/05 10:40

SEE REVERSE SIDE FOR INSTRUCTIONS



ENVIRONMENTAL LABORATORIES

221007/01

B315

245809

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client DEXEN MARTIN

Report To Gavin

Client No 900107

Address

Bill To

Pace Project Manager MLG

P O # / Billing Reference

Pace Project No 250422501

Phone

Project Name / No Aluminum Truss

Requested Due Date

Sampled By (PRINT)

WILLIE JACKSON / Pace

Sampler Signature

Date Sampled

W. Jackson 6/22/95

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.
1	# 17	1430	WDSN	
2	18	1430		
3	19	1440		
4	20	1450		
5	21	1500		
6	22	1510		
7	23	1520		
8	24	1530		

NO OF CONTAINERS	PRESERVATIVES		
	UNPRESERVED	H ₂ SO ₄	HNO ₃

ANALYSES REQUEST

REMARKS

Compact 1-24
3rd March
CS MUST
149-4-5
145-cl-5

COOLER NOS.	BAILERS	SHIPMENT METHOD		ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
		OUTDATE	RETURNED/DATE					
				17	W. Jackson / Pace	W. Jackson / Pace	6/22/95	10:30
				18				
				19				
				20				
				21				
				22				
				23				
				24				

Additional Comments

PS

18 W. Jackson / Pace 6/22/95 10:30

19 W. Jackson / Pace 6/22/95 10:30

20 W. Jackson / Pace 6/22/95 10:30

21 W. Jackson / Pace 6/22/95 10:30

22 W. Jackson / Pace 6/22/95 10:30

23 W. Jackson / Pace 6/22/95 10:30

24 W. Jackson / Pace 6/22/95 10:30

SEE REVERSE SIDE FOR INSTRUCTIONS



ENVIRONMENTAL LABORATORIES

221227.101

19185

245412

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client OGDEN MARTIN

Report To J. Stone

Face Client No 900107

Address

Bill To

949200

Face Project Manager PLT

Phone

P O # / Billing Reference

Face Project No 250422.XI

Sampled By (PRINT)

Miller Signature

Date Sampled

Willie Jackson / Pace

Project Name / No

UNPRESERVED

Project Name / No Arco 2nd Op, 95

Requested Due Date

ITEM NO. SAMPLE DESCRIPTION TIME MATRIX PAGE NO.

PRESERVATIVES			ANALYSES REQUEST
H ₂ SO ₄	HNO ₃	VOA	

Complete

REMARKS

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
1	#1	10:10	SLY		1	<u>Willie Jackson / Pace</u>	<u>Willie Jackson / Pace</u>	<u>5/26/95</u>	<u>8:15</u>
2	#2	10:10			1	<u>Willie Jackson / Pace</u>	<u>Willie Jackson / Pace</u>	<u>5/26/95</u>	<u>8:15</u>
3	#3	10:20			1	<u>Willie Jackson / Pace</u>	<u>Willie Jackson / Pace</u>	<u>5/26/95</u>	<u>8:15</u>
4	#4	10:30			1	<u>Willie Jackson / Pace</u>	<u>Willie Jackson / Pace</u>	<u>5/26/95</u>	<u>8:15</u>
5	#5	10:40			1	<u>Willie Jackson / Pace</u>	<u>Willie Jackson / Pace</u>	<u>5/26/95</u>	<u>8:15</u>
6	#6	10:50			1	<u>Willie Jackson / Pace</u>	<u>Willie Jackson / Pace</u>	<u>5/26/95</u>	<u>8:15</u>
7	#7	11:00			1	<u>Willie Jackson / Pace</u>	<u>Willie Jackson / Pace</u>	<u>5/26/95</u>	<u>8:15</u>
8	#8	11:10			1	<u>Willie Jackson / Pace</u>	<u>Willie Jackson / Pace</u>	<u>5/26/95</u>	<u>8:15</u>

COOLER NOS.	BALLERS	SHIPMENT METHOD	RETURNED DATE
	<u>0</u>	<u>5:20:45</u>	<u>PS</u>

Additional Comments

check in (1) mi sample for leach only

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
<u>1-8</u>	<u>Willie Jackson / Pace</u>	<u>Willie Jackson / Pace</u>	<u>5/26/95</u>	<u>8:15</u>

SEE REVERSE SIDE FOR INSTRUCTIONS



ENVIRONMENTAL LABORATORIES

22/007/01

1/2/13

245413

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client Odgen Martin

Report To J. Gove

Pace Client No 900107

Address _____

Bill To 949204

Pace Project Manager MLT

Phone _____

P O # / Billing Reference _____

Pace Project No 200420501

Sampled By (PRINT) MILLE JACSON Pace

Project Name / No Aceto 2nd QTR M₂S

*Requested Due Date _____

Sampler Signature M. Jackson

Date Sampled 5/6/05

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS	PRESERVATIVES			ANALYSES REQUESTED	REMARKS
						H ₂ SO ₄	HNO ₃	VOA		
1	# 9	11:20	SW	1	1				Compos	
2	10	11:36								
3	11	11:40								
4	12	11:56								
5	13	12:00								
6	14	12:20								
7	15	12:20								
8	16	12:30								

COOLER NOS.	BAILEYS	SHIPMENT METHOD	RETURNED DATE	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
				15	<u>M. Jackson</u>	<u>M. Jackson</u>	5/6/05	11:15

Additional Comments pg 1

15 M. Jackson Pace
15 M. Jackson Pace
15 M. Jackson Pace

SEE REVERSE SIDE FOR INSTRUCTIONS



ENVIRONMENTAL LABORATORIES

4/5/3

245414

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client Ogden Martin

Report To J. Corwin

Page Client No 900107

Address _____

Bill To 94424

Page Project Manager MLK

Phone _____

P O # / Billing Reference _____

Project Name / No SP02422 SDV

Sampled By (PRINT) Michelle Jackson Pace

Requested Due Date _____

Sampler Signature Michelle Jackson Pace

Date Sampled 5/26/05

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS			ANALYSES REQUEST	REMARKS
					UNPRESERVED	PRESERVATIVES			
					H ₂ SO ₄	HNO ₃	VOA		
1	# 13	12:45	SDV		1				
2	18	12:50							
3	19	13:00							
4	20	13:10							
5	21	13:20							
6	22	13:30							
7	23	13:40							
8	24	13:50							

COOLER NOS.	BALLERS	SHIPMENT METHOD	RETURNED DATE	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
-------------	---------	-----------------	---------------	-------------	-------------------------------	---------------------------	------	------

Additional Comments Pg 1

Michelle Jackson Pace 5/26/05
Michelle Jackson Pace 5/26/05
Michelle Jackson Pace 5/26/05
Michelle Jackson Pace 5/26/05
Michelle Jackson Pace 5/26/05
Michelle Jackson Pace 5/26/05
Michelle Jackson Pace 5/26/05
Michelle Jackson Pace 5/26/05
Michelle Jackson Pace 5/26/05
Michelle Jackson Pace 5/26/05

SEE REVERSE SIDE FOR INSTRUCTIONS



ENVIRONMENTAL LABORATORIES

15114

230133

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client OGDEN MTN

Report To J. GORRIE

Pace Client No 900107

Address _____

Bill To _____

Pace Project Manager MLC

Phone _____

P O # / Billing Reference _____

Pace Project No 250922501

Sampled By (PRINT) WILLIE JACKSON

Project Name / No PA510 to 2nd am APPS

*Requested Due Date _____

Sampler Signature [Signature] Date Sampled Pace

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.
1	# 1	11:15	SLD	
2	2	11:25		
3	3	11:35		
4	4	11:45		
5	5	11:55		
6	6	12:05		
7	7	12:15		
8	8	12:25		

NO OF CONTAINERS	PRESERVATIVES		
	UNPRESERVED	H ₂ SO ₄	HNO ₃
1			

ANALYSES REQUEST
PPM/DMUST

REMARKS
AK-17 Ref DIRECT from field

SHIPMENT METHOD	RETURNED DATE

RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION
<u>[Signature]</u>	<u>[Signature]</u>

DATE	TIME
<u>9/27/15</u>	<u>9:30</u>

Additional Comments A

SEE REVERSE SIDE FOR INSTRUCTIONS



ENVIRONMENTAL LABORATORIES

1/5 7/4

230152

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client DAVID MARTIN

Report To J. Gortie

Pace Client No 200107

Address _____

Bill To _____

Pace Project Manager MLG

Phone _____

P O # / Billing Reference _____

Pace Project No 250422.501

Sampled By (PRINT) WILLIE JACKSON

Operator Signature Willie Jackson

Date Sampled 4/25/05

Project Name / No Pace to EPA APP 55

Requested Due Date _____

ITEM NO. SAMPLE DESCRIPTION TIME MATRIX PAGE NO.

NO OF CONTAINERS

UNPRESERVED
H₂SO₄
HNO₃
VOA

PRESERVATIVES

ANALYSES REQUEST

Domestic Air

Not ref, Direct from REMARKS field

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.
1	9	12:35	Soil	
2	10	12:45		
3	11	12:55		
4	12	13:05		
5	13	13:15		
6	14	13:25		
7	15	13:35		
8	16	13:45		

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
1	<u>Willie Jackson Pace</u>	<u>Willie Jackson Pace</u>	<u>4/25/05</u>	<u>9:30</u>

Additional Comments

Additional Comments

SEE REVERSE SIDE FOR INSTRUCTIONS



ENVIRONMENTAL LABORATORIES

1924

230756

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client OG DEN MATTHEW

Report To D. GORVIE

Pace Client No 900107

Address _____

Bill To _____

Pace Project Manager MLE

Phone _____

P O # / Billing Reference _____

Pace Project No 250422501

Sampled By (PRINT) WILLIE JACKSON

Project Name / No OG DEN MATTHEW

Requested Due Date _____

Sampler Signature Willie Jackson

Date Sampled 4/25/05

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS		
					UNPRESERVED	H ₂ SO ₄	HNO ₃
1	# 17	13:55	Soil				
2	18	14:05					
3	19	14:15					
4	20	14:25					
5	21	14:35					
6	22	14:45					
7	23	14:55					
8	24	15:05					

ITEM NO.	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME	ANALYSES REQUEST		
					H ₂ SO ₄	HNO ₃	VOA
1	Willie Jackson Pace	Willie Jackson Pace	4/25/05	9:30			

REMARKS NOY Air-F
Direct from
REMARKS field

Additional Comments PS

COOLER NOS. _____

BAILERS _____

SHIPMENT METHOD _____

RETURN DATE _____

RELINQUISHED BY / AFFILIATION: Willie Jackson Pace

ACCEPTED BY / AFFILIATION: Willie Jackson Pace

DATE: 4/25/05

TIME: 9:30

SEE REVERSE SIDE FOR INSTRUCTIONS



ENVIRONMENTAL LABORATORIES

230751

Client 10000 MARTIN

Report To [Signature]

Pace Client No 1111

Address _____

Bill To _____

Pace Project Manager 1111

Phone _____

P O # / Billing Reference _____

Pace Project No _____

Sampler Signature _____

Date Sampled _____

Project Name / No [Signature]

*Requested Due Date _____

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS			ANALYSES REQUEST	REMARKS
					UNPRESERVED	PRESERVATIVES			
					H ₂ SO ₄	HNO ₃	VOA		
1	Import		Silt						
2									
3									
4									
5									
6									
7									
8									

COOLER NOS.

BAILERS

SHIPMENT METHOD

RETURNED/DATE

RELINQUISHED BY / AFFILIATION

ACCEPTED BY / AFFILIATION

DATE

TIME

Additional Comments

[Handwritten notes in large box]

SEE REVERSE SIDE FOR INSTRUCTIONS



REPORT OF LABORATORY ANALYSIS

October 20, 1995

Mr. Jason Gorrie
Ogden Martin Systems of Pasco
14230 Hays Road
Spring Hill, FL 34610-7630

RE: PACE Project No. 250711.501
Client Reference: Pasco 3rd Quarter 1995 Ash

Dear Mr. Gorrie:

Enclosed is the report of laboratory analyses for samples received July 20 - September 18, 1995.

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,

A handwritten signature in cursive script that reads "Michael F. Valder".

Michael F. Valder
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

Ogden Martin Systems of Pasco
14230 Hays Road
Spring Hill, FL 34610-7630

October 20, 1995
PACE Project Number: 250711501

Attn: Mr. Jason Gorrie

Client Reference: Pasco 3rd Quarter 1995 Ash

PACE Sample Number: 90 0662149
Date Collected: 07/18/95
Date Received: 07/20/95
Client Sample ID: JULY 95

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Composite</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	------------------	----------------------

ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Date Composited 10/07/95



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 2

October 20, 1995
PACE Project Number: 250711501

Client Reference: Pasco 3rd Quarter 1995 Ash

PACE Sample Number: 90 0675623
Date Collected: 08/21/95
Date Received: 08/31/95
Client Sample ID: AUG '95

<u>Parameter</u>	<u>Units</u>	<u>PRI</u>	<u>Monthly</u>	<u>Composite</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	----------------	------------------	----------------------

ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Date Composited 10/07/95



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 3

October 20, 1995
PACE Project Number: 250711501

Client Reference: Pasco 3rd Quarter 1995 Ash

PACE Sample Number: 90 0683146
Date Collected: 09/18/95
Date Received: 09/18/95
Client Sample ID: SEPT '95

<u>Parameter</u>	<u>Units</u>	<u>PRI</u>	<u>Monthly Composite</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	--------------------------	----------------------

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS
Date Digested - Mercury
Mercury-7471
Moisture

			10/18/95	
mg/kg	0.1		5.3	10/19/95
%	0.01		14	10/14/95

ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS
Date Compositd

10/07/95



REPORT OF LABORATORY ANALYSIS

Mr Jason Gorrie
Page 4

October 20, 1995
PACE Project Number: 250711501

Client Reference: Pasco 3rd Quarter 1995 Ash

PACE Sample Number:	90 0683154
Date Collected:	09/18/95
Date Received:	09/18/95
Client Sample ID:	SEP QTR 95
<u>Parameter</u>	<u>Units</u> <u>PRI</u> <u>Composite</u> <u>DATE ANALYZED</u>

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Moisture	%	0.01	15	10/14/95
----------	---	------	----	----------

PRIORITY POLLUTANT LIST METALS

Antimony-6010/ICP	mg/kg	20	160	10/18/95
Arsenic-7060	mg/kg	1.0	36	10/19/95
Beryllium-6010/ICP	mg/kg	3	ND	10/18/95
Cadmium-6010/ICP	mg/kg	0.5	35	10/18/95
Chromium-6010/ICP	mg/kg	5	41	10/18/95
Copper-6010/ICP	mg/kg	5	1100	10/18/95
Lead-6010/ICP	mg/kg	10	730	10/18/95
Mercury-7471	mg/kg	0.1	8.5 (1)	10/19/95
Nickel-6010/ICP	mg/kg	10	22	10/18/95
Selenium-6010/ICP	mg/kg	50	ND	10/18/95
Silver-6010/ICP	mg/kg	2	ND	10/18/95
Thallium	mg/kg	0.2	ND	10/19/95
Zinc-6010/ICP	mg/kg	2	4400	10/18/95
Date Digested - Mercury			10/18/95	

ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Date Compositing	10/07/95
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REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 5

October 20, 1995
PACE Project Number: 250711501

Client Reference: Pasco 3rd Quarter 1995 Ash

These data have been reviewed and are approved for release.

A handwritten signature in black ink, appearing to read "M. Valder".

Michael F. Valder
Manager, Inorganic Chemistry

A handwritten signature in black ink, appearing to read "M. W. Palmer".

Michael W. Palmer
Manager, Organic Chemistry



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 6

FOOTNOTES
for pages 1 through 5

October 20, 1995
PACE Project Number. 250711501

Client Reference: Pasco 3rd Quarter 1995 Ash

ND Not detected at or above the PRL.
PRL PACE Reporting Limit
(1) The response was over the calibration range for this compound. Reported results should be considered an estimate.



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 7

QUALITY CONTROL DATA

October 20, 1995
PACE Project Number: 250711501

Client Reference: Pasco 3rd Quarter 1995 Ash

Antimony-6010/ICP
Batch: 90 64807
Samples: 90 0683154

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>PRI</u>	<u>Method</u> <u>Blank</u>
Antimony-6010/ICP	mg/L	0.2	ND
Beryllium ICP	mg/L	0.004	ND
Cadmium ICP	mg/L	0.005	ND
Chromium ICP	mg/L	0.05	ND
Copper ICP	mg/L	0.05	ND
Lead ICP	mg/L	0.1	ND
Nickel ICP	mg/L	0.1	ND
Selenium ICP	mg/L	0.5	ND
Silver ICP	mg/L	0.02	ND
Zinc ICP	mg/L	0.02	ND

SPIKE AND SPIKE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRI</u>	900683154 SEP QTR 95		Spike		<u>RPD</u>
			<u>Composite</u>	<u>Spike</u>	<u>Recv</u>	<u>Dupl</u> <u>Recv</u>	
Antimony-6010/ICP	mg/kg	20	160	301	55%	62%	12%
					(1)		
Beryllium-6010/ICP	mg/kg	3	ND	30	87%	87%	0%
Cadmium-6010/ICP	mg/kg	0.5	35	90	86%	83%	4%
Chromium-6010/ICP	mg/kg	5	41	90	92%	92%	0%
Copper-6010/ICP	mg/kg	5	1100	90	-572%	-317%	57%
					(2)		
Lead-6010/ICP	mg/kg	10	730	301	155%	76%	68%
Nickel-6010/ICP	mg/kg	10	22	90	114%	86%	28%
Selenium-6010/ICP	mg/kg	50	ND	150	81%	84%	4%
Silver-6010/ICP	mg/kg	2	ND	90	96%	96%	0%
Zinc-6010/ICP	mg/kg	2	4400	90	920%	481%	63%
					(2)		



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 8

QUALITY CONTROL DATA

October 20, 1995
PACE Project Number: 250711501

Client Reference: Pasco 3rd Quarter 1995 Ash

Antimony-6010/ICP
Batch: 90 64807
Samples: 90 0683154

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Reference Value</u>	<u>Recv</u>	<u>Dupl Recv</u>	<u>RPD</u>
Antimony-6010/ICP	mg/L	0.2	1	86%	92%	7%
Beryllium ICP	mg/L	0.004	1	93%	94%	1%
Cadmium ICP	mg/L	0.005	1	94%	92%	2%
Chromium ICP	mg/L	0.05	1	92%	93%	1%
Copper ICP	mg/L	0.05	1	96%	94%	2%
Lead ICP	mg/L	0.1	1	96%	98%	2%
Nickel ICP	mg/L	0.1	1	91%	91%	0%
Selenium ICP	mg/L	0.5	1	104%	112%	7%
Silver ICP	mg/L	0.02	1	94%	94%	0%
Zinc ICP	mg/L	0.02	1	90%	91%	1%



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 9

QUALITY CONTROL DATA

October 20, 1995
PACE Project Number: 250711501

Client Reference: Pasco 3rd Quarter 1995 Ash

Arsenic-7060
Batch: 90 64829
Samples: 90 0683154

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Method Blank</u>
Arsenic-7060	ug/L	10	ND

SPIKE AND SPIKE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>900668910 Spike</u>	<u>Spike Recv</u>	<u>Spike Dupl Recv</u>	<u>RPD</u>
Arsenic-7060	mg/kg	3.0	3.1			
Arsenic-7060	mg/kg	1.0		4	101%	18%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Reference Value</u>	<u>Recv</u>	<u>Dupl Recv</u>	<u>RPD</u>
Arsenic-7060	ug/L	10	40	104%	105%	1%



REPORT OF LABORATORY ANALYSIS

Mr Jason Gorrie
Page 10

QUALITY CONTROL DATA

October 20, 1995
PACE Project Number: 250711501

Client Reference: Pasco 3rd Quarter 1995 Ash

Mercury-7471
Batch: 90 64810
Samples: 90 0683146, 90 0683154

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Method Blank</u>
Mercury-7471	ug/L	0.2	ND

SPIKE AND SPIKE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	900683146 SEPT '95 Monthly <u>Composite</u>	<u>Spike</u>	Spike Recy	Dupl Recy	RPD
Mercury-7471	mg/kg	0.1	5.3	0.89	34% (2)	-247%	264%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Reference Value</u>	<u>Recy</u>	<u>Dupl Recy</u>	<u>RPD</u>
Mercury-7471	ug/L	0.2	6	109%	109%	0%



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 11

QUALITY CONTROL DATA

October 20, 1995
PACE Project Number: 250711501

Client Reference: Pasco 3rd Quarter 1995 Ash

Moisture
Batch: 90 64704
Samples: 90 0683146, 90 0683154

SAMPLE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	900683146 SEPT '95 Monthly <u>Composite</u>	Duplicate of <u>90 0683146</u>	<u>RPD</u>
Moisture	%	0.01	14	15	7%



REPORT OF LABORATORY ANALYSIS

Mr Jason Gorrie
Page 12

QUALITY CONTROL DATA

October 20, 1995
PACE Project Number: 250711501

Client Reference: Pasco 3rd Quarter 1995 Ash

Thallium
Batch: 90 64809
Samples: 90 0683154

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>PRI</u>	<u>Method Blank</u>
Thallium	ug/L	2	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRI</u>	<u>Reference Value</u>	<u>Recv</u>	<u>Dupl Recv</u>	<u>RPD</u>
Thallium	ug/L	2	40	104%	104%	0%



REPORT OF LABORATORY ANALYSIS

Mr Jason Gorrie
Page 13

FOOTNOTES
for pages 7 through 12

October 20, 1995
PACE Project Number: 250711501

Client Reference: Pasco 3rd Quarter 1995 Ash

ND Not detected at or above the PRL.
PRL PACE Reporting Limit
RPD Relative Percent Difference
(1) Matrix interference.
(2) Poor spike recovery due to the presence of high concentrations of analyte.



ENVIRONMENTAL LABORATORIES

221 069-101

15145

244508

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client OTTDEN MARTIN

Report To J. GORRITZ

Pace Client No 9200107

Address

Bill To 944204

Pace Project Manager MFL

P O # / Billing Reference

Pace Project No 250711501

Phone

Project Name / No PHS 3rd OR SURFS

*Requested Due Date

Sampled By (PRINT)

WILLIE JACKSON / Pace
Date Sampled 7/18/95

Operator Signature

ITEM NO. SAMPLE DESCRIPTION TIME MATRIX PAGE NO.

NO OF CONTAINERS

UNPRESERVED

H₂SO₄

HNO₃

VOA

PRESERVATIVES

ANALYSES REQUEST

REMARKS

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS	UNPRESERVED	PRESERVATIVES	ANALYSES REQUEST	REMARKS
1	#1	1110	Soil		1				
2	2	1120			1				
3	3	1130			1				
4	4	1140			1				
5	5	1150			1				
6	6	1200			1				
7	7	210			1				
8	8	1220			1				

COOLER NOS.

BALLERS

SHIPMENT METHOD OUTDATE RETURNED DATE

ITEM NUMBER

RELINQUISHED BY / AFFILIATION

ACCEPTED BY / AFFILIATION

DATE

TIME

Additional Comments

0

05 7/13/95

Willie Jackson Pace 7/18/95 1010
Willie Jackson Pace 7/18/95 1345
Willie Jackson Pace 7/18/95 1345

SEE REVERSE SIDE FOR INSTRUCTIONS



ENVIRONMENTAL LABORATORIES

B 1/2

244509

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client OTDEN MARTIN

Report To Gene

Pace Client No 900107

Address

Bill To 949204

Pace Project Manager MFC

P O # / Billing Reference

Pace Project No 250711501

Phone

Project Name / No DFEO 3 RGR 201 95

Requested Due Date

Sampled By (PRINT)

WILLIE JACKSON / Pace

Client Signature

Date Sampled

W. Jackson 7/18/05

PRESERVATIVES

ANALYSES REQUEST

NO OF CONTAINERS

UNPRESERVED

H₂SO₄

HNO₃

VOA

Comp 1-24

REMARKS

ITEM NO.	#	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO OF CONTAINERS			REMARKS
						UNPRESERVED	H ₂ SO ₄	HNO ₃	
1	9		1230	SA		1			
2	10		1240						
3	11		1250						
4	12		1300						
5	13		1310						
6	14		1320						
7	15		1330						
8	16		1340						

COOLER NOS.

BAILERS

SHIPMENT METHOD

OUTDATE

RETURNED DATE

ITEM NUMBER

RELINQUISHED BY / AFFILIATION

ACCEPTED BY / AFFILIATION

DATE

TIME

Additional Comments

W. Jackson Pace W. Jackson Pace W. Jackson Pace
1-8 W. Jackson Pace W. Jackson Pace W. Jackson Pace
7/18/05 1010 7/18/05 1010 7/18/05 1715

SEE REVERSE SIDE FOR INSTRUCTIONS



ENVIRONMENTAL LABORATORIES

10-12

244510

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client DAVID MARTIN

Report To Grand

Client No 900107

Address _____

Bill To _____

Project Manager MTV

Phone _____

P O # / Billing Reference ALSO 39012-7/5

Pace Project No 250711-201

Sampled By (PRINT) Willie Jackson Pace

Sampler Signature Willie Jackson Date Sampled 7/12/95

Project Name / No ALSO 39012-7/5

Requested Due Date _____

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS	PRESERVATIVES			ANALYSES REQUEST	REMARKS
						H ₂ SO ₄	HNO ₃	VOA		
1	# 17	1350	Sol		1				Comp 1-2	
2	18	1400			1					
3	19	1410			1					
4	20	1420			1					
5	21	1430			1					
6	22	1440			1					
7	23	1450			1					
8	24	1500			1					

COOLER NOS.	BAILERS	SHIPMENT OUTDATE	METHOD RETURNED/DATE	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
051				1-8	Willie Jackson Pace	Willie Jackson Pace	7/12/95	1010

Additional Comments

Handwritten notes and signatures in the bottom section of the form.

SEE REVERSE SIDE FOR INSTRUCTIONS



221007.101

ENVIRONMENTAL LABORATORIES

Client OSDEN MARTIN

Address

Phone

Sampled By (PRINT)

WILLIE JACKSON / PACE

Date Sampled

W. Jackson 5/21/05

ITEM NO. SAMPLE DESCRIPTION TIME MATRIX PAGE NO.

1	# 1	11:20	SD	
2	2	11:40		
3	3	11:50		
4	4	12:00		
5	5	12:16		
6	6	12:20		
7	7	12:30		
8	8	12:40		

NO OF CONTAINERS

UNPRESERVED
H ₂ SO ₄
HNO ₃
VOA

PRESERVATIVES

ANALYSES REQUEST

Composite 1-21

REMARKS

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
18	<u>W. Jackson / Pace</u>	<u>W. Jackson / Pace</u>	<u>5/18/05</u>	<u>10:00</u>
18	<u>W. Jackson / Pace</u>	<u>W. Jackson / Pace</u>	<u>5/18/05</u>	<u>10:00</u>

COOLER NOS.	BALLERS	SHIPMENT METHOD	RETURNED DATE
	<u>0</u>	<u>Emp.</u>	

Additional Comments

10.10

292532

CHAIN-OF-CUSTODY RECORD Analytical Request

Report To

J. Leavie

Pace Client No

920107

Bill To

949204

Pace Project Manager

MTV

P O # / Billing Reference

Pace Project No

25071506

Project Name / No

Paso 6 3rd Ave Angus

Requested Due Date

SEE REVERSE SIDE FOR INSTRUCTIONS



ENVIRONMENTAL LABORATORIES

100115

292531

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client DEBEN MARTIN

Report To J. Lewis

Pace Client No 900107

Address

Bill To 949204

Pace Project Manager MLV

P O # / Billing Reference

Pace Project No 250711 S04

Phone

Project Name / No Pasco 6 350711 S04

*Requested Due Date

Sampled By (PRINT)

WILLIE JACKSON / Pace

Collector Signature

Willie Jackson 8/21/95

Date Sampled

ITEM NO. SAMPLE DESCRIPTION TIME MATRIX PAGE NO.

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS	PRESERVATIVES			ANALYSES REQUEST	REMARKS
						H ₂ SO ₄	HNO ₃	VOA		
1	# 9	12:50	SOIL	1	1					
2	10	1:00								
3	11	1:10								
4	12	1:20								
5	13	1:30								
6	14	1:40								
7	15	1:50								
8	16	1:00								

NO OF CONTAINERS	UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA
1	1			

COOLER NOS.	BAILERS	SHIPMENT METHOD	RETURNED DATE	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
B1				18	W. Jackson / Pace	W. Jackson / Pace	8/21/95	10:00
				18	W. Jackson / Pace	W. Jackson / Pace	8/21/95	10:00

Additional Comments

SEE REVERSE SIDE FOR INSTRUCTIONS



ENVIRONMENTAL LABORATORIES

Client OTDEN MARTIN

Address _____

Phone _____

Sampled By (PRINT) WILLIE JACKSON / PACE

Analyst Signature W. Jackson Date Sampled 8/21/95

19-15

292530

CHAIN-OF-CUSTODY RECORD
Analytical Request

Report To Corrie

Bill To 949204

P O # / Billing Reference Pace Co. 3596 Hwy 5

Project Name / No Pace Co. 3596 Hwy 5 Requested Due Date _____

Pace Client No 900907

Pace Project Manager MIV

Pace Project No 250711-304

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS			ANALYSES REQUEST	REMARKS
					UNPRESERVED	H ₂ SO ₄	HNO ₃		
1	# 17	14:10	Soil					Composite	
2	18	14:20							
3	19	14:30							
4	20	14:40							
5	21	14:55							
6	22	15:05							
7	23	15:10							
8	24	15:20							

COOLER NOS.	BALLERS	SHIPMENT METHOD	RETURNED DATE	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
				18	W. Jackson / Pace	W. Jackson / Pace	8/15/95	
				1-8	W. Jackson / Pace	W. Jackson / Pace	8/21/95	

Additional Comments

Composite 1-24
1075602-3

SEE REVERSE SIDE FOR INSTRUCTIONS



ENVIRONMENTAL LABORATORIES

Client Ogden Martha Of Pace

Address _____

Phone _____

Sampled By (PRINT) WILLIE JACKSON / Pace

Collector Signature Willie Jackson Date Sampled 9/15/95

CHAIN-OF-CUSTODY RECORD Analytical Request

Report To Jason Garcia Pace Client No 400107

Bill To _____ Pace Project Manager MW

P O # / Billing Reference _____ Pace Project No 25 0111 501

Project Name / No Pace Co 3rd Qtr '95 *Requested Due Date _____

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS			ANALYSES REQUEST	REMARKS
					UNPRESERVED	H ₂ SO ₄	HNO ₃		
1	Grab Sample # 1	10:40	Soil	1				X	
2	" # 2	10:50		1				X	
3	" # 3	11:00		1				X	
4	" # 4	11:10		1				X	
5	" # 5	11:20		1				X	
6	" # 6	11:30		1				X	
7	" # 7	11:40		1				X	
8	" # 8	11:50		1				X	

COOLER NOS.	BALLERS	SHIPMENT METHOD	RETURNED DATE	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
				8	Willie Jackson / Pace	Willie Jackson / Pace	9/15/95	9:00

Additional Comments

1 with composite. 68314.4

Dirty camp

68315.4

SEE REVERSE SIDE FOR INSTRUCTIONS



ENVIRONMENTAL LABORATORIES

292451

Page 2 of 3

Pos 10

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client Ogden Marsh of Pace

Report to Jason Garre

Face Client No 400107

Address

Bill To

Face Project Manager PHV

P O # / Billing Reference

Face Project No 350711501

Phone

Project Name / No Pace Co. 3rd Air 95

Requested Due Date

Sampled By (PRINT)

WILLIE JACKSON / Pace

Operator Signature

Date Sampled

Willie Jackson 9/18/95

REMARKS

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS			ANALYSES REQUEST	REMARKS
					UNPRESERVED	H ₂ SO ₄	HNO ₃		
1	Grab Sample # 9	12:00	Sld					X	
2	" " # 10	12:10						X	
3	" " # 11	12:20						X	
4	" " # 12	12:30						X	
5	" " # 13	12:40						X	
6	" " # 14	12:50						X	
7	" " # 15	13:00						X	
8	" " # 16	13:10						X	

COOLER NOS.

BAILERS

SHIPMENT METHOD

RETURN/DATE

ITEM NUMBER

RELINQUISHED BY / AFFILIATION

ACCEPTED BY / AFFILIATION

DATE

TIME

Additional Comments

18 Willie Jackson / Pace 9/18/95 9:00
 18 W. Jackson / Pace 9/18/95 15:45

SEE REVERSE SIDE FOR INSTRUCTIONS



ENVIRONMENTAL LABORATORIES

292453

Page 3 of 3

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client Golden Mountain AC Park

Report To Jason Garcia

Pace Client No 900107

Address _____

Bill To _____

Pace Project Manager NFV

Phone _____

P O # / Billing Reference _____

Pace Project No 050711 501

Sampled By (PRINT) WILLIE JACKSON / Pace

Project Name / No Park (050711 501)

Requested Due Date _____

Operator Signature Willie Jackson Date Sampled 9/18/95

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS			ANALYSES REQUEST	REMARKS
					UNPRESERVED	PRESERVATIVES			
					H ₂ SO ₄	HNO ₃	VOA		
1	Grab Sample # 17	13:20	Soil	1				X	
2	" " # 18	13:30		1				X	
3	" " # 19	13:40		1				X	
4	" " # 20	13:50		1				X	
5	" " # 21	14:00		1				X	
6	" " # 22	14:10		1				X	
7	" " # 23	14:20		1				X	
8	" " # 24	14:30		1				X	

COOLER NOS.	BALLERS	SHIPMENT METHOD	RETURNED DATE	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
				1-8	<u>Willie Jackson / Pace</u>	<u>Willie Jackson / Pace</u>	<u>9/18/95</u>	<u>9:00</u>
				1-5	<u>Willie Jackson / Pace</u>	<u>Willie Jackson / Pace</u>	<u>9/18/95</u>	<u>9:00</u>

SEE REVERSE SIDE FOR INSTRUCTIONS



REPORT OF LABORATORY ANALYSIS

January 08, 1996

Mr. Jason Gorrie
Ogden Martin Systems of Pasco
14230 Hays Road
Spring Hill, FL 34610-7630

RE: PACE Project No. 251004.551
Client Reference: Pasco 4th Quarter 1995 Ash

Dear Mr. Gorrie:

Enclosed is the report of laboratory analyses for samples received
October 16 - December 13, 1995.

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free
to contact us.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael F. Valder". The signature is fluid and cursive, written over a white background.

Michael F. Valder
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 3

January 08, 1996
PACE Project Number: 251004551

Client Reference: Pasco 4th Quarter 1995 Ash

PACE Sample Number: 90 0707606
Date Collected: 12/11/95
Date Received: 12/11/95
Client Sample ID: DEC '95

<u>Parameter</u>	<u>Units</u>	<u>PRI</u>	<u>Monthly Composite</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	--------------------------	----------------------

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS
Date Digested - Mercury
Mercury-7471
Moisture

			12/26/95	
	mg/kg	0.1	7.0 (1)	12/27/95
	%	0.01	23	12/20/95

ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS
Date Compositing

12/13/95



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 4

January 08, 1996
PACE Project Number: 251004551

Client Reference: Pasco 4th Quarter 1995 Ash

PACE Sample Number:	90 0707614
Date Collected:	12/11/95
Date Received:	12/13/95
Client Sample ID:	4th QTR 95
<u>Parameter</u>	<u>Units</u> <u>PRI</u> <u>Composite</u> <u>DATE ANALYZED</u>

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Moisture	%	0.01	17	12/20/95
----------	---	------	----	----------

PRIORITY POLLUTANT LIST METALS

Antimony-6010/ICP	mg/kg	20	61	12/28/95
Arsenic-7060	mg/kg	1.0	31	01/02/96
Beryllium-6010/ICP	mg/kg	3	ND	12/28/95
Cadmium-6010/ICP	mg/kg	0.5	45	12/28/95
Chromium-6010/ICP	mg/kg	5	55	12/28/95
Copper-6010/ICP	mg/kg	5	850	12/28/95
Lead-6010/ICP	mg/kg	10	1600	12/28/95
Mercury-7471	mg/kg	0.1	5.3 (1)	12/27/95
Nickel-6010/ICP	mg/kg	10	33	12/28/95
Selenium-6010/ICP	mg/kg	50	ND	12/28/95
Silver-6010/ICP	mg/kg	2	5	12/28/95
Thallium	mg/kg	0.2	ND	12/29/95
Zinc-6010/ICP	mg/kg	2	3800	12/28/95
Date Digested - Mercury				12/26/95

ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Date Composited	12/13/95
-----------------	----------



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 5

January 08, 1996
PACE Project Number: 251004551

Client Reference: Pasco 4th Quarter 1995 Ash

These data have been reviewed and are approved for release.

A handwritten signature in cursive script, appearing to read "M. Valder".

Michael F. Valder
Manager, Inorganic Chemistry

A handwritten signature in cursive script, appearing to read "M. W. Palmer".

Michael W. Palmer
Manager, Organic Chemistry



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 6

FOOTNOTES
for pages 1 through 5

January 08, 1996
PACE Project Number: 251004551

Client Reference: Pasco 4th Quarter 1995 Ash

ND Not detected at or above the PRL.
PRL PACE Reporting Limit
(1) The response was over the calibration range for this compound. Reported results should be considered an estimate.



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 7

QUALITY CONTROL DATA

January 08, 1996
PACE Project Number: 251004551

Client Reference: Pasco 4th Quarter 1995 Ash

Antimony-6010/ICP
Batch: 90 66184
Samples: 90 0707614

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Method Blank</u>
Antimony-6010/ICP	mg/L	0.2	ND
Beryllium, ICP	mg/L	0.004	ND
Cadmium ICP	mg/L	0.005	ND
Chromium, ICP	mg/L	0.05	ND
Copper, ICP	mg/L	0.05	ND
Lead ICP	mg/L	0.1	ND
Nickel, ICP	mg/L	0.1	ND
Selenium ICP	mg/L	0.5	ND
Silver, ICP	mg/L	0.02	ND
Zinc ICP	mg/L	0.02	ND

SPIKE AND SPIKE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>900707550</u>	<u>Spike</u>	<u>Spike</u>		<u>RPI</u>
					<u>Recv</u>	<u>Dupl Recv</u>	
Antimony-6010/ICP	mg/kg	20	35	351	70%	65%	7%
Beryllium-6010/ICP	mg/kg	3	ND	35	89%	91%	2%
Cadmium-6010/ICP	mg/kg	0.5	37	105	87%	87%	0%
Chromium-6010/ICP	mg/kg	5	62	105	63%	66%	5%
Copper-6010/ICP	mg/kg	5	8200	105	-559%	-476%	16%
Lead-6010/ICP	mg/kg	10	1600	351	-114%	-142%	22%
Nickel-6010/ICP	mg/kg	10	65	105	60%	72%	18%
Selenium-6010/ICP	mg/kg	50	ND	175	93%	83%	11%
Silver-6010/ICP	mg/kg	2	3	105	96%	94%	2%
Zinc-6010/ICP	mg/kg	2	3100	105	333%	0%	200%



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 8

QUALITY CONTROL DATA

January 08, 1996
PACE Project Number: 251004551

Client Reference: Pasco 4th Quarter 1995 Ash

Antimony-6010/ICP
Batch: 90 66184
Samples: 90 0707614

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRI</u>	<u>Reference Value</u>	<u>Recv</u>	<u>Dup1 Recv</u>	<u>RPD</u>
Antimony-6010/ICP	mg/L	0.2	1	97%	92%	5%
Beryllium, ICP	mg/L	0.004	1	95%	96%	1%
Cadmium ICP	mg/L	0.005	1	95%	97%	2%
Chromium, ICP	mg/L	0.05	1	95%	97%	2%
Copper, ICP	mg/L	0.05	1	98%	97%	1%
Lead ICP	mg/L	0.1	1	90%	82%	9%
Nickel, ICP	mg/L	0.1	1	98%	98%	0%
Selenium ICP	mg/L	0.5	1	101%	98%	3%
Silver, ICP	mg/L	0.02	1	100%	99%	1%
Zinc ICP	mg/L	0.02	1	96%	98%	2%



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 9

QUALITY CONTROL DATA

January 08, 1996
PACE Project Number: 251004551

Client Reference: Pasco 4th Quarter 1995 Ash

Arsenic-7060
Batch: 90 66234
Samples: 90 0707614

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Method Blank</u>
Arsenic-7060	ug/L	10	ND

SPIKE AND SPIKE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>900707550</u>	<u>Spike</u>	<u>Spike Recv</u>	<u>Spike Dupl Recv</u>	<u>RPD</u>
Arsenic-7060	mg/kg	1.0	39	3.81	157% (1)	157%	0%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Reference Value</u>	<u>Recv</u>	<u>Dupl Recv</u>	<u>RPD</u>
Arsenic-7060	ug/L	10	40	100%	100%	0%



REPORT OF LABORATORY ANALYSIS

Mr Jason Gorrie
Page 10

QUALITY CONTROL DATA

January 08, 1996
PACE Project Number: 251004551

Client Reference: Pasco 4th Quarter 1995 Ash

Mercury-7471
Batch: 90 66160
Samples: 90 0707606, 90 0707614

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>PRI</u>	<u>Method Blank</u>
Mercury-7471	ug/L	0.2	ND

SPIKE AND SPIKE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRI</u>	<u>900699883</u>	<u>Spike</u>	<u>Spike Recv</u>	<u>Dupl Recv</u>	<u>RPD</u>
Mercury-7471	mg/kg	0.1	ND	0.75	96%	97%	1%

LABORATORY CONTROL SAMPLE:

<u>Parameter</u>	<u>Units</u>	<u>PRI</u>	<u>Reference Value</u>	<u>Recv</u>
Mercury-7471	ug/L	0.2	6	112%



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 11

QUALITY CONTROL DATA

January 08, 1996
PACE Project Number: 251004551

Client Reference: Pasco 4th Quarter 1995 Ash

Moisture
Batch. 90 66090
Samples: 90 0707606, 90 0707614

SAMPLE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>900707541</u>	Duplicate of <u>90 0707541</u>	<u>RPD</u>
Moisture	%	0.01	19	18	5%



REPORT OF LABORATORY ANALYSIS

Mr. Jason Gorrie
Page 12

QUALITY CONTROL DATA

January 08, 1996
PACE Project Number: 251004551

Client Reference: Pasco 4th Quarter 1995 Ash

Thallium
Batch: 90 66193
Samples: 90 0707614

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Method</u>
Thallium	ug/L	2	<u>Blank</u> ND

SPIKE AND SPIKE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>900707550</u>	<u>Spike</u>	<u>Spike</u> <u>Recv</u>	<u>Dupl</u> <u>Recv</u>	<u>RPD</u>
Thallium	mg/kg	0.2	0.4	3.81	99%	97%	2%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>PRL</u>	<u>Reference</u> <u>Value</u>	<u>Recv</u>	<u>Dupl</u> <u>Recv</u>	<u>RPD</u>
Thallium	ug/L	2	40	91%	91%	0%



REPORT OF LABORATORY ANALYSIS

Mr Jason Gorrie
Page 13

FOOTNOTES
for pages 7 through 12

January 08, 1996
PACE Project Number: 251004551

Client Reference: Pasco 4th Quarter 1995 Ash

ND Not detected at or above the PRL.
PRL PACE Reporting Limit
RPD Relative Percent Difference
(1) Poor spike recovery due to the presence of high concentrations of analyte.



ENVIRONMENTAL LABORATORIES

245947

Page 10 of 13

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client Ogden Martin of Paris Co.

Report To M. Jason Verne

Pace Client No 700107

Address

Bill To

Pace Project Manager

P O # / Billing Reference ppr 4229 8th '95 - Paris Co

Pace Project No 251004 551

Phone

Project Name / No

Requested Due Date

Sampled By (PRINT)

WILLIE JACKSON Pace

Sampler Signature

Date Sampled 10/12/95

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS	PRESERVATIVES			ANALYSES REQUEST	REMARKS
						UNPRESERVED	H ₂ SO ₄	HNO ₃		
1	Grab Sample # 1	9:10	Sld		1					
2	" " # 2	9:20	"		1					
3	" " # 3	9:30	"		1					
4	" " # 4	9:40	"		1					
5	" " # 5	9:50	"		1					
6	" " # 6	10:00	"		1					
7	" " # 7	10:10	"		1					
8	" " # 8	10:20	"		1					

COOLER NOS.	BALLERS	SHIPMENT METHOD	RETURNED DATE	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
				1-8	<u>W. Jackson Pace</u>	<u>W. Jackson Pace</u>	<u>10/12/95</u>	<u>7:45</u>

Additional Comments

1-8 W. Jackson Pace

SEE REVERSE SIDE FOR INSTRUCTIONS



ENVIRONMENTAL LABORATORIES

245948

Page 2 of 3

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client Byden Martin of Pace Co.

Report To Mr Jason Garcia

Pace Client No 900107

Address _____

Bill To _____

Pace Project Manager NFV

P O # / Billing Reference 251004 551

Pace Project No 251004 551

Phone _____

Project Name / No 251004 551

*Requested Due Date _____

Sampled By (PRINT) Willie Jackson / Pace

Sampler Signature Willie Jackson

Date Sampled 10/16/05

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS	PRESERVATIVES			ANALYSES REQUEST	REMARKS
						H ₂ SO ₄	HNO ₃	VOA		
1	Grab Sample # 9	10:30	Solid		1				X	700-2713
2	" # 15	10:46	"		1				X	samples in
3	" # 11	10:50	"		1				X	Willie in
4	" # 12	11:00	"		1				X	Willie in
5	" # 13	11:10	"		1				X	Willie in
6	" # 14	11:20	"		1				X	Willie in
7	" # 15	11:30	"		1				X	Willie in
8	" # 16	11:40	"		1				X	Willie in

COOLER NOS.

BAILERS

SHIPMENT METHOD

RETURNED DATE

ITEM NUMBER

RELINQUISHED BY / AFFILIATION

ACCEPTED BY / AFFILIATION

DATE

TIME

Additional Comments

1-8 Willie Jackson / Pace
 1-8 Willie Jackson / Pace
 Willie Jackson / Pace 10/16/05 7:45

SEE REVERSE SIDE FOR INSTRUCTIONS



ENVIRONMENTAL LABORATORIES

245949

CHAIN-OF-CUSTODY RECORD
Analytical Request

Page 3 of 3

Client Ogden Martin of Paul Co.

Report To Mr. Jason Goerke

Pace Client No 4100107

Address _____

Bill To _____

Pace Project Manager MFR

P O # / Billing Reference _____

Pace Project No 251004151

Phone _____

Project Name / No 901 2nd St. '95 - Paul Co.

*Requested Due Date _____

Sampled By (PRINT) WILLIE JACKSON / Pace

Sampler Signature W Jackson

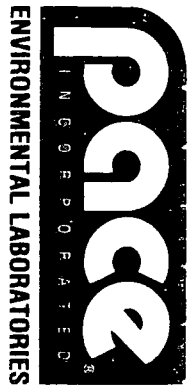
Date Sampled 10-16-95

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS			ANALYSES REQUEST	REMARKS
					UNPRESERVED	H ₂ SO ₄	HNO ₃		
1	Grab Sample # 17	11:56	Solid		1			X	
2	" " " " # 18	12:00	"		1			X	
3	" " " " # 19	12:16	"		1			X	
4	" " " " # 20	12:20	"		1			X	
5	" " " " # 21	12:30	"		1			X	
6	" " " " # 22	12:40	"		1			X	
7	" " " " # 23	12:50	"		1			X	
8	" " " " # 24	13:00	"		1			X	

COOLER NOS.	BAILLERS	SHIPMENT METHOD	RETURNED DATE	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
				1-8	W Jackson / Pace	W Jackson / Pace	10/16/95	7:45

Additional Comments

SEE REVERSE SIDE FOR INSTRUCTIONS



Pace
 INCORPORATED
 ENVIRONMENTAL LABORATORIES

129107-1 292022

CHAIN-OF-CUSTODY RECORD
 Analytical Request

Client Oden Martin Pasco Report To Jason Goffie Pace Client No 920107

Address 14230 Hays Road Bill To Pace Project Manager

Spring Hill FL P O # / Billing Reference November Pace Project No 251004551

Phone 850-2917 Project Name / No 7781-95 Ash PASCO Requested Due Date

Sampled By (PRINT) Charles E. Vele 11-15-95

Operator Signature [Signature] Date Sampled

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS			ANALYSES REQUEST	REMARKS
					UNPRESERVED	H ₂ SO ₄	HNO ₃		
1	Grab Sample # 1	1055	Solid		1				30759.2
2	Grab Sample # 2	1105	Solid		1				
3	Grab Sample # 3	1115	Solid		1				
4	Grab Sample # 4	1125	Solid		1				
5	Grab Sample # 5	1135	Solid		1				
6	Grab Sample # 6	1145	Solid		1				
7	Grab Sample # 7	1155	Solid		1				
8	Grab Sample # 8	1205	Solid		1				

COOLER NOS.	BALLERS	SHIPMENT METHOD	RETURNED DATE	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
				1-8	[Signature]	[Signature]	11-14-95	1100
				1-8	[Signature]	[Signature]	11-15-95	1105
				1-8	[Signature]	[Signature]	11-15-95	1110

SEE REVERSE SIDE FOR INSTRUCTIONS



ENVIRONMENTAL LABORATORIES

19 2015

292023

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client AG DEN MARTIN PASO

Report To JASON GOFFIE

Pace Client No 990107

Address 14330 Hays Road

Bill To

Pace Project Manager

Spring Hill Ec.

P O # / Billing Reference

November

Pace Project No 251004251

Phone 856-2917

Project Name / No 4th Oct. 95 ASH PASO

Requested Due Date

Sampled By (PRINT)

Charles E. Voltz 11-15-95

Collector Signature

Date Sampled

[Signature]

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS			ANALYSES REQUEST	REMARKS
					UNPRESERVED	PRESERVATIVES			
					H ₂ SO ₄	HNO ₃	VOA		
1	Grab sample # 9	12:25	S/d		1				707592
2	Grab sample # 10	12:25	S/d		1				
3	Grab sample # 11	12:25	S/d		1				
4	Grab sample # 12	12:45	S/d		1				
5	Grab sample # 13	12:55	S/d		1				
6	Grab sample # 14	13:05	S/d		1				
7	Grab sample # 15	13:15	S/d		1				
8	Grab sample # 16	13:25	S/d		1				
COOLER NOS.	BALLERS	SHIPMENT METHOD			ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
					18	<i>[Signature]</i>	<i>[Signature]</i>	11-14-95	1400
Additional Comments									
<p>18 J. A. Woods 8. 1994</p> <p>18 <i>[Signature]</i> 11-15-95</p> <p>18 <i>[Signature]</i> 11-15-95</p> <p>18 <i>[Signature]</i> 11-15-95</p>									

SEE REVERSE SIDE FOR INSTRUCTIONS

Reg 3043

292024

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: GADEN MARTIN PASCO Report To: Jason Borrie Pace Client No: 990107

Address: 14230 Hays Road Bill To: _____ Pace Project Manager: _____

Spring Hill FL P O # / Billing Reference: November Pace Project No: 251004551

Phone: 856-29171 Project Name / No: 4th St 95 Hill Pasco Requested Due Date: _____

Sampled By (PRINT): Charles E. Volz Date Sampled: 11-15-95

Operator Signature: [Signature]

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS			ANALYSES REQUEST	REMARKS
					UNPRESERVED	H ₂ SO ₄	HNO ₃		
1	Grab Sample # 17	3:35 PM	Solid		1				707592
2	Grab Sample # 18	3:45 PM	Solid		1				
3	Grab Sample # 19	3:55 PM	Solid		1				
4	Grab Sample # 20	4:05 PM	Solid		1				
5	Grab Sample # 21	4:15 PM	Solid		1				
6	Grab Sample # 22	4:25 PM	Solid		1				
7	Grab Sample # 23	4:35 PM	Solid		1				
8	Grab Sample # 24	4:45 PM	Solid		1				

Additional Comments: _____

COOLER NOS. _____ BAILERS _____ SHIPMENT METHOD _____ RETURNED/DATE _____

RELINQUISHED BY / AFFILIATION: [Signature] ACCEPTED BY / AFFILIATION: [Signature] DATE: 11-14-95 TIME: 1:00 PM

SEE REVERSE SIDE FOR INSTRUCTIONS



ENVIRONMENTAL LABORATORIES

240405.10#

B.1/4

292088

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: OGDEN MARTIN

Report To: GORME

Face Client No: 900109

Address: [faded]

Bill To: 944304

Face Project Manager: MTF

Phone: [faded]

P.O. # / Billing Reference: [faded]

Face Project No: 257104557

Sampled By (PRINT): MILLIE JACKSON

Project Name / No: [faded]

Requested Due Date: [faded]

Collector Signature: [Signature]

Date Sampled: 12/11/95

[faded]

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS			ANALYSES REQUEST	REMARKS
					UNPRESERVED	H ₂ SO ₄	HNO ₃		
1	#1	10:05	Soil		1				# Comp. 1-2 ✓
2	#2	10:10	Soil		1				92 Moist
3	#3	10:20	Soil		1				A5-U-5
4	#4	10:30	Soil		1				A5-D.S
5	#5	10:40	Soil		1				
6	#6	10:50	Soil		1				
7	#7	11:00	Soil		1				
8	#8	11:10	Soil		1				

COOLER NOS. [faded] BAILEYS [faded]

SHIPMENT METHOD: [faded] OUT/DATE: 12/14/95

RETURNED DATE: [faded]

Additional Comments: [faded]

RELINQUISHED BY / AFFILIATION: [Signature]

ACCEPTED BY / AFFILIATION: [Signature]

DATE: 12/11/95 8:30

TIME: [faded]

SEE REVERSE SIDE FOR INSTRUCTIONS



ENVIRONMENTAL LABORATORIES

292087

CHAIN-OF-CUSTODY RECORD
Analytical Request

12/14

Client DADEN MARTIN

Report To Gorie

Address _____

Bill To 949204

Phone _____

Pace Client No 900107

Sampled By (PRINT) WILLIE JACKSON

Pace Project Manager WFW

Operator Signature WJ

Date Sampled 12/11/95

Project Name / No AS0064E012/95

Requested Due Date _____

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS			ANALYSES REQUEST	REMARKS
					UNPRESERVED	PRESERVATIVES			
1	# 9	11:20	S&L						
2	# 10	11:30							
3	# 11	11:40							
4	# 12	11:50							
5	# 13	12:00							
6	# 14	12:10							
7	# 15	12:20							
8	# 16	12:30							

COOLER NOS. _____ BALLERS _____ SHIPMENT METHOD _____ RETURNED DATE _____

Additional Comments _____

RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
<u>WJ</u>	<u>WFW</u>	<u>12/11/95</u>	<u>8:30</u>

SEE REVERSE SIDE FOR INSTRUCTIONS



ENVIRONMENTAL LABORATORIES

292086

CHAIN-OF-CUSTODY RECORD
Analytical Request

10/3/95

Client OGDEN MARTIN

Report To Barrie

Page Client No 900107

Address _____

Bill To 949204

Page Project Manager MFEV

Phone _____

P O # / Billing Reference _____

Project Name / No Pace 6 4500E 12/95

Sampled By (PRINT) MILLIE JACKSON / Pace

Requested Due Date _____

Analyst Signature M. Jackson

Date Sampled 12/11/95

UNPRESERVED

ANALYSES REQUEST

NO OF CONTAINERS		
H ₂ SO ₄		
HNO ₃		
VOA		

REMARKS * 3000/95

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS			REMARKS
					UNPRESERVED	ANALYSES REQUEST		
1	#17	12:40	Soil	1				707(6)
2	#18	12:50						
3	#19	13:00						
4	#20	13:10						
5	#21	13:20						
6	#22	13:30						
7	#23	13:40						
8	#24	13:50						

COOLER NOS. 191

BAILERS _____

SHIPMENT METHOD _____

RETURNED DATE _____

RELINQUISHED BY / AFFILIATION M. Jackson / Pace

ACCEPTED BY / AFFILIATION M. Jackson / Pace

DATE 12/11/95

TIME 5:30

SEE REVERSE SIDE FOR INSTRUCTIONS



ENVIRONMENTAL LABORATORIES

10/4/14

292085

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client GT DEN MARTIN Report To Louis Pace Client No 900107

Address _____ Bill To 949204 Pace Project Manager MFE

Phone _____ P O # / Billing Reference _____ Pace Project No 57104.551

Sampled By (PRINT) MILLIE JACKSON Pace Project Name / No Louis 45672 12/95 Requested Due Date _____

Signature M. Jackson Date Sampled 12/17/95

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PAGE NO.	NO OF CONTAINERS			ANALYSES REQUEST	REMARKS
					UNPRESERVED	H ₂ SO ₄	HNO ₃		
1	Composite (1st 2nd 3rd A's) 14:00 S.D				5				30761, 4
2	December composite H.30				1				
3									
4									
5									
6									
8									

COOLER NOS. _____ BAILERS _____ SHIPMENT METHOD _____ RETURNED DATE _____

Additional Comments _____

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
118	<u>M. Jackson Pace</u>	<u>M. Jackson Pace</u>	12/13	8:00
122	<u>M. Jackson Pace</u>	<u>M. Jackson Pace</u>	12/13	14:00

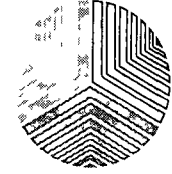
SEE REVERSE SIDE FOR INSTRUCTIONS

OGDEN MARTIN SYSTEMS
OF PASCO, INC.

14230 HAYS ROAD
SPRING HILL, FL 34610

TEL (813) 856-2917
FAX (813) 856-0007

Ash sample
results



AN OGDEN PROJECTS
COMPANY

September 24, 1996

Ms Allison Amram, P G
Florida Department of Environmental Protection
Southwest District Office
3804 Coconut Palm Drive
Tampa, Florida 33619

*SUBJ: 1995 Total Metals Ash Results
Pasco County Resource Recovery Facility*

Dear Ms Amram

Attached, please find individual quarterly reports for ash sampling conducted at the Pasco County Resource Recovery Facility, operated by Ogden Martin Systems of Pasco, Inc. The sampling and analysis was conducted in accordance with March 1, 1994 Ash Sampling SOP issued by the Department

If additional information is needed, please contact me at (813) 856-2917

Sincerely,

Jason M Gorrie
Environmental Engineer
Ogden Martin Systems of Pasco, Inc

cc B Sitz (w/o attachments)
V Mannella, Pasco County
K Anderson, FDEP Tallahassee
file (w/o attachments)

RECEIVED
SEP 25 1996
Department of Environmental Protection
BY SOUTHWEST DISTRICT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHWEST DISTRICT

CONVERSATION RECORD

Date 3/26/98
Time 8:50

Subject Pasco WTE - Ash Results
Permit No _____
County Pasco
Telephone No 813/856-2917

M Jason Gorrie

Representing Ogden - Martin

Phoned Me Was Called Scheduled Meeting Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting _____

Summary of Conversation/Meeting _____

Have not received 1997 ash results for Pasco

3/30 1125 Jason returned my call. He
has not assembled the ash report.
He will put together a summary & send
it to me "soon"

(continue on another
sheet, if necessary)

Signature A. Amman

Title PLG

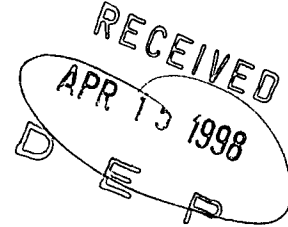
OGDEN



May 9, 1997

Ogden Martin Systems of Pasco
14230 Hays Road
Spring Hill, FL 34610
813 856 2917
Fax 813 856 0007

Ms Allison Amram
Florida Department of Environmental Protection
Southwest District Office
3804 Coconut Palm Drive
Tampa, Florida 33619



*SUBJ 1997 Ash Residue Report
Pasco County Resource Recovery Facility*

Dear Ms Amram

In accordance with Chapter 62-702 570(4), F A C , please find the 1997 Ash Residue Report for Pasco County Resource Recovery Facility The sampling and analysis was conducted in accordance with March 1, 1994 Ash Sampling SOP issued by the Department

If additional information is needed, please contact me at (813) 856-2917

Sincerely,

Jason M Gorrie
Senior Environmental Engineer
Ogden Martin Systems of Pasco, Inc

cc V Mannella
Facility Ash File
B Sitz
file



Pasco County Resource Recovery Facility
Ash Analysis Results
1997 Summary

SAMPLING PERIOD	COMPOSITE DATE	Moisture %	Sb (mg/kg)	As (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Hg (mg/kg)	Mn (mg/kg)	Se (mg/kg)	As (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
1st QTR	03/25/97	16	29	15	ND	28	53	8800	930	1.6	56	ND	4	ND	3000
2nd QTR	07/01/97	17.1	170	37	0.3	36	51	1700	1600	ND	36	ND	37	ND	5300
3rd QTR	10/02/97	11.4	84.1	26	0.202	33	27.6	850	17.8	ND	19.3	0.597	26	ND	40.4
4th QTR	12/26/96	14.6	83.7	20.1	ND	31	33.4	517	663	0.1	19.3	ND	20.1	ND	2650

STATISTICAL RESULTS

MAXIMUM	17.1	170	37	N/A	36	53	8800	1600	1.6	56	N/A	37	0	5300
MINIMUM	11.4	29	15	N/A	28	27.6	517	17.8	0	19.3	N/A	4	0	40.4
MEAN	14.775	91.7	24.525	N/A	32	41.25	2966.75	802.7	0.425	32.65	NA	21.775	0	2747.6
STD DEV	2.1	50.5	8.2	N/A	2.9	11.0	3395.3	567.3	0.7	15.1	N/A	11.9	0.0	1865.3



CORE LABORATORIES

5460 Beaumont Center Blvd , Tampa, Florida 33634, (813) 884-8268, Fax (813) 888-6382

March 27, 1997

Page 1

Mr. Jason Gorrie
Ogden Martin Systems of Pasco
14230 Hays Road
Spring Hill, FL 34610-7630

RE: Core Project No. 270101.531
Client Reference: Pasco 1st Quarter 1997 Ash

Dear Mr. Gorrie:

Enclosed is the report of laboratory analyses for samples received January 17 - March 25, 1997.

The report consists of a total of 13 pages. Footnotes are given at the end of both the analytical results and quality control sections of the report.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,

Jackie Ciordia
Project Manager

Enclosures

RECEIVED

APR 1 1997

OMSP/



CORE LABORATORIES

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Ogden Martin Systems of Pasco
14230 Hays Road
Spring Hill, FL 34610-7630

March 27, 1997
Core Project Number: 270101531

Attn: Mr. Jason Gorrie

Page 2

Client Reference: Pasco 1st Quarter 1997 Ash

Core Sample Number:	90 0812256
Date Collected:	01/16/97
Date Received:	01/17/97
Client Sample ID:	JAN '97

<u>Parameter</u>	<u>Units</u>	<u>PRI</u>	<u>Monthly</u>	<u>Composite</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	----------------	------------------	----------------------

ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Date Compositing	01/20/97
------------------	----------



CORE LABORATORIES

5460 Beaumont Center Blvd., Tampa, Florida 33634, (813) 884-8268, Fax (813) 888-6382

March 27, 1997

Core Project Number: 270101531

Mr. Jason Gorrie

Page 3

Client Reference: Pasco 1st Quarter 1997 Ash

Core Sample Number:

90 0815220

Date Collected:

02/12/97

Date Received:

02/12/97

Client Sample ID:

FEB '97

Monthly

Parameter

Units

PRI

Composite DATE ANALYZED

ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Date Compositing

02/20/97



CORE LABORATORIES

5460 Beaumont Center Blvd., Tampa, Florida 33634, (813) 884-8268, Fax (813) 888-6382

Mr. Jason Gorrie
Page 4

March 27, 1997
Core Project Number: 270101531

Client Reference: Pasco 1st Quarter 1997 Ash

Core Sample Number:	90 0820283
Date Collected:	03/21/97
Date Received:	03/25/97
Client Sample ID:	1st QTR 97
Parameter	<u>Units</u> <u>PRL</u> <u>Composite</u> <u>DATE ANALYZED</u>

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Moisture	%	0.1	15	03/26/97
----------	---	-----	----	----------

PRIORITY POLLUTANT LIST METALS

Antimony ICP/6010	mg/kg	20	29	03/27/97
Arsenic - 7060	mg/kg	1.0	15	03/26/97
Beryllium ICP/6010	mg/kg	3	ND	03/27/97
Cadmium ICP/6010	mg/kg	0.5	28	03/27/97
Chromium ICP/6010	mg/kg	5	53	03/27/97
Copper ICP/6010	mg/kg	5	8800	03/27/97
Lead ICP/6010	mg/kg	10	930	03/27/97
Mercury-7471	mg/kg	0.1	7.5	03/27/97
Nickel ICP/6010	mg/kg	10	56	03/27/97
Selenium ICP/6010	mg/kg	50	ND	03/27/97
Silver ICP/6010	mg/kg	2	4	03/27/97
Thallium - 7841	mg/kg	0.2	ND	03/27/97
Zinc ICP/6010	mg/kg	2	3000	03/27/97
Date Digested - Mercury			03/26/97	

ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Date Compositing	03/25/97
------------------	----------



CORE LABORATORIES

5460 Beaumont Center Blvd , Tampa, Florida 33634, (813) 884-8268, Fax (813) 888-6382

Mr. Jason Gorrie
Page 5

March 27, 1997
Core Project Number: 270101531

Client Reference: Pasco 1st Quarter 1997 Ash

Core Sample Number: 90 0820291
Date Collected: 03/21/97
Date Received: 03/25/97
Client Sample ID: MARCH '97

<u>Parameter</u>	<u>Units</u>	<u>PRI</u>	<u>Composite</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	------------------	----------------------

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Date Digested - Mercury			03/26/97	
Mercury-7471	mg/kg	0.1	1.6	03/27/97
Moisture	%	0.1	16	03/26/97

ORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Date Compositing			03/25/97	
------------------	--	--	----------	--



CORE LABORATORIES

5460 Beaumont Center Blvd, Tampa, Florida 33634, (813) 884-8268, Fax (813) 888-6382

Mr. Jason Gorrie
Page 6

FOOTNOTES
for pages 2 through 5

March 27, 1997
Core Project Number: 270101531

Client Reference: Pasco 1st Quarter 1997 Ash

There are 6 pages in the analytical portion of this report.

Sample results are reported on a dry weight basis.

The date analyzed reflects the date of the first validated and approved analysis.

ND Not detected at or above the PRL.
PRL Practical Reporting Limit

These data have been reviewed and are approved for release.

Michael F. Valder
Laboratory Manager



Progress Environmental Laboratories

4420 Pendola Point Road
Tampa, Florida 33619
(813) 247-2805
FAX (813) 248-1537

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To Ogden Martin Systems
14320 Hay Road
Spring Hill, FL 34610

Report Date 7/14/97
Page 1 of 2

Attn Jason Gorrie

PEL Lab # 9706-00346-3
Client ID · Ash Sample 6-97
Project ID 1997 Apr/May/June
Location · Pasco Facility
Matrix · Solid
DW = Dry Weight

Collection Information
Sample Date 6/27/97
Sample Time 0 00
Sampled By PEL/DS
Sample Quality

ND = Less than MDL
Units MDL

Parameter	Method	Results	Units	MDL
Mercury	EPA 7471	ND	mg/kg (DW)	0.03
Moisture	ASTM D-3173	17.1	%	

- CONTINUED ON NEXT PAGE -

Progress Environmental Laboratories

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To Ogden Martin Systems
14320 Hay Road
Spring Hill, FL 34610

Report Date 7/14/97
Page 2 of 2

Attn: Jason Gorrie

PEL Lab #	. 9706-00346-4	Collection Information
Client ID	Composite	Sample Date 7/01/97
Project ID	. 1997 Apr/May/Jun	Sample Time 0 00
Location	. Pasco Facility	Sampled By . PEL/DS
Matrix	Solid	Sample Quality
DW = Dry Weight		

Parameter	Method	Results	ND = Less than MDL	
			Units	MDL
ICP P P. Metals(Soil)	EPA 6010			
Silver	EPA 6010	3.9	mg/kg (DW)	0.20
Arsenic	EPA 6010	37	mg/kg (DW)	0.35
Beryllium	EPA 6010	0.30	mg/kg (DW)	0.11
Cadmium	EPA 6010	36	mg/kg (DW)	0.11
Chromium	EPA 6010	51	mg/kg (DW)	0.57
Copper	EPA 6010	1700	mg/kg (DW)	20
Nickel	EPA 6010	36	mg/kg (DW)	0.79
Lead	EPA 6010	1600	mg/kg (DW)	30
Antimony	EPA 6010	170	mg/kg (DW)	30
Selenium	EPA 6010	ND	mg/kg (DW)	0.30
Thallium	EPA 6010	ND	mg/kg (DW)	0.81
Zinc	EPA 6010	5300	mg/kg (DW)	130
Moisture	ASTM D-3173	14.5	%	

Respectfully submitted, Vincent M. Giampa
Vincent M. Giampa, Laboratory Manager.



Progress Environmental Laboratories

No 17012

4420 Pendola Point Road
Tampa, Florida 33619
(813) 247-2805
FAX (813) 248-1537

Client <u>OGDEN MARTIN SYSTEMS</u>		Due Date (TAT).		9706-346					
Project Mgr <u>JASON GORRIE</u>		Fax Reports to () -							
Project <u>PASCO facility</u>		Bill to							
Project # <u>1997-APR/MAY/JUN</u>		Sampler's Initials <u>PEL/DS</u>							
PO #									
Station ID	Date	Time	PEL Lab #	# of Bttls	Pres	PPM	Hg	% moisture	Remarks
ASH Sample. 4-97	4-30-97								
ASH SAMPLE 5-97	5-20-97					x	x		Reduce $> \frac{3}{8}$ to $< \frac{3}{8}$
ASH Sample 6-97	6-27-97						x	x	Combining w/ $< \frac{1}{8}$
COMPOSITE	7/1								Pull 2 Samples of 1/2 ea
									Hg on one Sample
									Now Composite Apr, May, Jun
									PPM on this Sample
Relinquished By	Received By	Date	Time	Project Notes					
<u>Don Spang</u>	<u>J. ALLWOOD</u>	6/20	1700						
Relinquished By	Received By	Date	Time						
Relinquished By	Received By	Date	Time						
Relinquished By	Received By	Date	Time						



Progress Environmental Laboratories

4420 Pendola Point Road
Tampa, Florida 33619
(813) 247-2805
FAX (813) 248-1537

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To Ogden Martin Systems Pasco Co
14320 Hay Road
Spring Hill, FL 34610

Report Date 10/29/97
Page 1 of 2

Attn Jason Gorrie

PEL Lab #	9710-00161-1	Collection Information
Client ID	Ash Sample 9-97	Sample Date. 9/25/97
Project ID	1997-September	Sample Time. 0 00
Location	Pasco	Sampled By Client
Matrix	Solid	Sample Quality.
Report revised	10-28-97	

Parameter	Method	Results	ND = Less than MDL	
			Units	MDL
Mercury	EPA 7471	ND	mg/kg	0 03
Moisture	ASTM D-3173	11 4	%	



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(813) 247-2805
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- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To: Ogden Martin Systems Pasco Co.
14320 Hay Road
Spring Hill, FL 34610

Report Date 1/09/98
Page: 1 of 2

Attn: Jason Gorrie

PEL Lab # : 9712-00396-1
Client ID : Ash Sample 12-97
Project ID : 1997-December
Location : Pasco
Matrix : Solid

Collection Information:
Sample Date 12/29/98
Sample Time 0:00
Sampled By : AF
Sample Quality:

Parameter	Method	Results	ND = Less than MDL	
			Units	MDL
Mercury	EPA 7471	0.10	mg/kg	0.03
Moisture	ASTM D-3173	14.6	%	

- CONTINUED ON NEXT PAGE -

A Florida Progress Company

Progress Environmental Laboratories

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

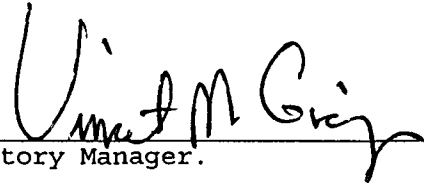
To. Ogden Martin Systems Pasco Co.
14320 Hay Road
Spring Hill, FL 34610

Report Date: 1/09/98
Page: 2 of 2

Attn: Jason Gorrie

PEL Lab #	: 9712-00396-2	Collection Information
Client ID	: 4th Quarter Comp.	Sample Date: 1/06/98
Project ID	: 1997-December	Sample Time: 0 00
Location	: Pasco	Sampled By : AF
Matrix	: Solid	Sample Quality:

Parameter	Method	Results	ND = Less than MDL	
			Units	MDL
ICP P.P. Metals (Soil)	EPA 6010			
Silver	EPA 6010	2 95	mg/kg	1 82
Arsenic	EPA 6010	20 1	mg/kg	3 16
Beryllium	EPA 6010	ND	mg/kg	0 97 ₃
Cadmium	EPA 6010	31 0	mg/kg	0 964
Chromium	EPA 6010	33.4	mg/kg	5 15
Copper	EPA 6010	517	mg/kg	1 82
Nickel	EPA 6010	19.3	mg/kg	7.16
Lead	EPA 6010	663	mg/kg	2.73
Antimony	EPA 6010	83.7	mg/kg	2.73
Selenium	EPA 6010	ND	mg/kg	2.73
Thallium	EPA 6010	ND	mg/kg	7 32
Zinc	EPA 6010	2650	mg/kg	11 5
Mercury	EPA 7471	1.7	mg/kg	0.2
Moisture	ASTM D-3173	15.6	%	

Respectfully submitted, 
Vincent M. Giampa, Laboratory Manager.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHWEST DISTRICT

CONVERSATION RECORD

Date 3/4/99 Subject Ash Test Results
Time 9:30 Permit No _____
County Pasco
M Jason Garrile Telephone No 727-813/856-2917
Representing Ogden Martin Systems
 Phoned Me Was Called Scheduled Meeting Unscheduled Meeting
Other Individuals Involved in Conversation/Meeting _____

Summary of Conversation/Meeting _____

Need 1998 ash testing results - left a voice
mail message

9/2/99 4:20 He thought they were sent
months ago - he will mail
it to me today.

(continue on another sheet, if necessary) Signature Allison Amman
Title PGI

OGDEN

02 September 1999

Ogden Martin Systems of Pasco
14230 Hays Road
Spring Hill, FL 34610
813 856 2917
Fax 813 856 0007

Ms Alison Amram, P G
Florida Department of Environmental Protection
Southwest District Office
3804 Coconut Palm Drive
Tampa, Florida 33619

D.E.P.
SEP 07 1999
Southwest District Tampa

*SUBJ. 1998 Ash Results
Pasco County Resource Recovery*

Dear Ms Amram

Attached, please find the results of quarterly ash sampling conducted at the Pasco County Resource Recovery Facility in 1998. Please do not hesitate to contact me at (727) 856-2917 if additional information is needed.

Sincerely,



Jason M. Gorrie
Senior Environmental Engineer
Ogden Martin Systems of Pasco, Inc



Pasco County Resource Recovery Facility
 Ash Analysis Results
 1998 Summary

SAMPLING PERIOD	COMPOSITE DATE	Moisture %	Si (mg/kg)	Al (mg/kg)	Fe (mg/kg)	Ca (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Mn (mg/kg)	Zn (mg/kg)	Co (mg/kg)	Ni (mg/kg)	Se (mg/kg)	Ag (mg/kg)	Hg (mg/kg)	Pb (mg/kg)	Zn (mg/kg)
1st QTR	03/31/98	15.4	88.6	26.8	0.274	25.8	46.9	402	542	3.6	49.4	1.04	2.35	ND	ND	ND	5090
2nd QTR	07/16/98		135	39.2	ND	54.6	26.1	696	735	0.13	17.7	1.42	5.28	ND	ND	ND	5040
3rd QTR	09/29/98		200	40	0.2	40	30	50000	10000	0.64	20	2	5	1	1	1	4000
4th QTR	12/26/96		100	30	0.1	40	70	500	800	2.3	90	1	6	1	1	1	5000

STATISTICAL RESULTS

MAXIMUM	15.4	200	40	0.274	54.6	70	50000	10000	3.6	90	2	6	1	5090
MINIMUM	15.4	88.6	26.8	0	25.8	26.1	402	542	0.13	17.7	1	2.35	0	4000
MEAN	15.4	130.9	34	0.1435	40.1	43.25	12899.5	3019.25	1.6675	44.275	1.365	4.6575	0.5	4782.5
STD DEV	0.0	43.4	5.7	0.1	10.2	17.3	21420.2	4031.5	1.4	29.2	0.4	1.4	0.5	452.9



Progress Environmental Laboratories

4420 Pendola Point Road
Tampa, Florida 33619
(813) 247-2805
FAX (813) 248-1537

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To Ogden Martin Systems Pasco Co
14320 Hay Road
Spring Hill, FL 34610

Report Date 1/08/99
Page 1 of 2

Attn Jason Gorrie

PEL Lab #	9812-00322-1	Collection Information
Client ID	Dec Sample	Sample Date 12/31/98
Project ID		Sample Time 16 45
Location	Pasco	Sampled By Client
Matrix	Solid	Sample Quality

Parameter	Method	Results	ND = Less than RL	
			Units	RL
Mercury	EPA 7471	2 3	mg/kg	0 30

- CONTINUED ON NEXT PAGE -

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- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To Ogden Martin Systems Pasco Co
14320 Hay Road
Spring Hill, FL 34610


Report Date 1/08/99
Page 2 of 2

Attn Jason Gorrie

PEL Lab #	9812-00322-2	Collection Information
Client ID	4th Qtr Comp	Sample Date 12/31/98
Project ID		Sample Time 16 45
Location	Pasco	Sampled By Client
Matrix	Solid	Sample Quality

Parameter	Method	Results	ND = Less than RL	
			Units	RL
ICP P P Metals (Soil)	EPA 6010			
Silver	EPA 6010	6	mg/kg	0 1
Arsenic	EPA 6010	30	mg/kg	0 2
Beryllium	EPA 6010	0 1	mg/kg	0 07
Cadmium	EPA 6010	40	mg/kg	0 06
Chromium	EPA 6010	70	mg/kg	0 07
Copper	EPA 6010	500	mg/kg	0 06
Nickel	EPA 6010	90	mg/kg	0 1
Lead	EPA 6010	800	mg/kg	0 10
Antimony	EPA 6010	100	mg/kg	0 2
Selenium	EPA 6010	1	mg/kg	0 1
Thallium	EPA 6010	1	mg/kg	0 3
Zinc	EPA 6010	5000	mg/kg	10
Mercury	EPA 7471	0 067	mg/kg	0 049

Respectfully submitted,
Vincent M Giampa, Laboratory Manager





Progress Environmental Laboratories

No 19245

4420 Pendola Point Road
Tampa, Florida 33619
(813) 247-2805
FAX (813) 248-1537

Client	ODEN MARTIN Facility		Due Date(TAT)			wdd left	9812-322	
Project Mgr	Jason Garris		Fax Reports to ()					
Project	Pasco	Bill to	Client					
Project #	DEC 30, 1998	Sampler's Initials						
PO #			Date	Time	PEL Lab #	# of Bttls	P Res	Remarks
Station ID								
	DEC. Sample		12-31			1	✓	
	4th Quarter Composite		12-31			1	✓	
Relinquished By			Received By			Date	Time	Project Notes
			Ken Ly			2-20-98	1645	
Relinquished By			Received By			Date	Time	
								1-8-98
Relinquished By			Received By			Date	Time	
Relinquished By			Received By			Date	Time	



Progress Environmental Laboratories

4420 Pendola Point Road
Tampa, Florida 33619
(813) 247-2805
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- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To Ogden Martin Systems Pasco Co
14320 Hay Road
Spring Hill, FL 34610

Report Date 9/29/98
Page 1 of 2

Attn: Jason Gorrie

PEL Lab #	9809-00279-1	Collection Information
Client ID	Sept 98 ash sample	Sample Date 9/18/98
Project ID	1998 3rd Quarter	Sample Time 0 00
Location	Pasco County FL	Sampled By PEL/DS
Matrix	Solid	Sample Quality

Parameter	Method	Results	ND = Less than RL	
			Units	RL
Mercury	EPA 7471	0 64	mg/kg	0 31

- CONTINUED ON NEXT PAGE -

Progress Environmental Laboratories

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)


To Ogden Martin Systems Pasco Co
14320 Hay Road
Spring Hill, FL 34610

Report Date 9/29/98
Page 2 of 2

Attn: Jason Gorrie

PEL Lab #	: 9809-00279-2	Collection Information
Client ID	: July Aug Sept Comp	Sample Date 9/22/98
Project ID	: 1998 3rd Quarter	Sample Time 9 00
Location	: Pasco County FL	Sampled By PEL/DS
Matrix	: Solid	Sample Quality

Parameter	Method	Results	ND = Less than RL	
			Units	RL
ICP P P. Metals(Soil)	EPA 6010			
Silver	EPA 6010	5	mg/kg	0 1
Arsenic	EPA 6010	40	mg/kg	0 2
Beryllium	EPA 6010	0 2	mg/kg	0 06
Cadmium	EPA 6010	40	mg/kg	0 05
Chromium	EPA 6010	30	mg/kg	0 06
Copper	EPA 6010	50000	mg/kg	5
Nickel	EPA 6010	20	mg/kg	0 1
Lead	EPA 6010	10000	mg/kg	4
Antimony	EPA 6010	200	mg/kg	0 2
Selenium	EPA 6010	2	mg/kg	0 1
Thallium	EPA 6010	1	mg/kg	0 3
Zinc	EPA 6010	4000	mg/kg	10

Respectfully submitted, 
Vincent M Giampa, Laboratory Manager



Progress Environmental Laboratories

No 18569

4420 Pendola Point Road
Tampa, Florida 33619
(813) 247-2805
FAX (813) 248-1537

Client OSWEN MARTIN PASCO		Due Date(TAT)		9809-279 DS		
Project Mgr JASON GORTLE		Fax Reports to ()				
Project 1998 3RD QUARTER		Bill to				
Project #		Sampler's Initials PEL/DS				
PO #						
Station ID	Date	Time	PEL Lab #	# of Bttls	Pes	Remarks
Sept 98 Ash Sample	9/18	-	0/S	1	X	
July Aug Sept Composite	9/22	900	02S	1	X	
Relinquished By	Received By	Date	Time	Project Notes		
<i>[Signature]</i>	<i>[Signature]</i>	9/22/98	9:10	due 9-27-98		
Relinquished By	Received By	Date	Time			
Relinquished By	Received By	Date	Time			
Relinquished By	Received By	Date	Time			

*
PEL
H
9/22/98

*Do not report Hg
per G.L. (AD) 9/29/98.



Progress Environmental Laboratories

4420 Pendola Point Road
Tampa, Florida 33619
(813) 247-2805
FAX (813) 248-1537

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To: Ogden Martin Systems Pasco Co.
14320 Hay Road
Spring Hill, FL 34610

Report Date: 7/16/98
Page: 1 of 2

Attn Jason Gorrie

PEL Lab #	: 9807-00129-1	Collection Information
Client ID	June '98	Sample Date 6/25/98
Project ID	1998 Second Quarter	Sample Time 0 00
Location	Pasco Co FL	Sampled By PEL
Matrix	Solid	Sample Quality

Parameter	Method	Results	ND = Less than RL	
			Units	RL
Mercury	EPA 7471	0 13	mg/kg	0 040

- CONTINUED ON NEXT PAGE -

Progress Environmental Laboratories

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To: Ogden Martin Systems Pasco Co.
14320 Hay Road
Spring Hill, FL 34610

Report Date: 7/16/98
Page: 2 of 2

Attn: Jason Gorrie

PEL Lab #	9807-00129-2	Collection Information
Client ID	Comp Apr May June	Sample Date: 7/10/98
Project ID	· 1998 Second Quarter	Sample Time: 0 00
Location	· Pasco Co FL	Sampled By: PEL
Matrix	Solid	Sample Quality:

Parameter	Method	Results	ND = Less than RL	
			Units	RL
ICP P.P. Metals (Soil)	EPA 6010			
Silver	EPA 6010	5 28	mg/kg	0 26
Arsenic	EPA 6010	39 2	mg/kg	0 43
Beryllium	EPA 6010	ND	mg/kg	0 15
Cadmium	EPA 6010	54.6	mg/kg	0 13
Chromium	EPA 6010	26 1	mg/kg	0 15
Copper	EPA 6010	696	mg/kg	0 13
Nickel	EPA 6010	17 7	mg/kg	0 273
Lead	EPA 6010	735	mg/kg	0 22
Antimony	EPA 6010	135	mg/kg	0.42
Selenium	EPA 6010	1 42	mg/kg	0.25
Thallium	EPA 6010	ND	mg/kg	0 70
Zinc	EPA 6010	5040	mg/kg	14

Respectfully submitted,
Charles R Ingram, Quality Assurance Officer



Progress Environmental Laboratories

No 22997

4420 Pendola Point Road
Tampa, Florida 33619
(813) 247-2805
FAX (813) 248-1537

1024

Client <u>Cody Martin Pasco</u>		Due Date(TAT)																	
Project Mgr <u>Jason Gortie</u>		Fax Reports to () -																	
Project		Bill to																	
Project # <u>1998 Second Quarter</u>		Sampler's Initials																	
PO #		Date		Time		PEL Lab #		# of Bttls		Pres		Remarks							
Station ID		<u>June 98</u>		<u>6/25/98</u>		<u>1S</u>		<u>1</u>		<u>X</u>									
<u>Camp Apr May June</u>		<u>7/1/98</u>				<u>2S</u>		<u>2</u>		<u>X</u>									
Relinquished By		Received By		Date		Time		Project Notes											
<u>[Signature]</u>				<u>7/1/98</u>														<u>Samples Rec'd on Ice @ 2°C</u>	
Relinquished By		Received By		Date		Time												<u>due 7-17</u>	
Relinquished By		Received By		Date		Time													
Relinquished By		Received By		Date		Time													

K
M
P
M

9807-129 DS



Progress Environmental Laboratories

4420 Pendola Point Road
Tampa Florida 33619
(813) 247-2805
FAX (813) 248-1537

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To Ogden Martin Systems Pasco Co
14320 Hay Road
Spring Hill, FL 34610

Report Date 4/13/98
Page 1 of 2

Attn Jason Gorrie

PEL Lab #	9804-00027-1	Collection Information
Client ID	Ash Sample 3-98	Sample Date 3/27/98
Project ID	March-98	Sample Time 0:00
Location	: Pasco County	Sampled By Client
Matrix	Solid	Sample Quality

Parameter	Method	Results	ND = Less than MDL	
			Units	MDL
Mercury	EPA 7471	3.6	mg/kg	0.2
Moisture	ASTM D-3173	15.0	%	

- CONTINUED ON NEXT PAGE -

Progress Environmental Laboratories

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To Ogden Martin Systems Pasco Co
14320 Hay Road
Spring Hill, FL 34610

Report Date 4/13/98
Page 2 of 2

Attn: Jason Gorrie

PEL Lab #	· 9804-00027-2	Collection Information
Client ID	1 st Quarter Comp	Sample Date 3/31/98
Project ID	· March-98	Sample Time 0.00
Location	· Pasco County	Sampled By : Client
Matrix	Solid	Sample Quality

Parameter	Method	Results	ND = Less than MDL	
			Units	MDL
ICP P.P. Metals (Soil)	EPA 6010			
Silver	EPA 6010	2 35	mg/kg	0 308
Arsenic	EPA 6010	26 8	mg/kg	0 535
Beryllium	EPA 6010	0 274	mg/kg	0.165
Cadmium	EPA 6010	25 8	mg/kg	0 163
Chromium	EPA 6010	46 9	mg/kg	0.872
Copper	EPA 6010	402	mg/kg	0 308
Nickel	EPA 6010	49 4	mg/kg	1 21
Lead	EPA 6010	542	mg/kg	0 462
Antimony	EPA 6010	88 6	mg/kg	0 462
Selenium	EPA 6010	1 04	mg/kg	0 462
Thallium	EPA 6010	ND	mg/kg	1 24
Zinc	EPA 6010	5090	mg/kg	19 5
Moisture	ASTM D-3173	15 4	%	

Respectfully submitted,
Charles R. Ingram, Quality Assurance Officer

OGDEN

17 March 2000

Ogden Martin Systems of Pasco
14230 Hays Road
Spring Hill, FL 34610
813 856 2917
Fax 813 856 0007

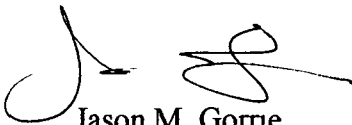
Ms Alison Amram, P G
Florida Department of Environmental Protection
Southwest District Office
3804 Coconut Palm Drive
Tampa, Florida 33619

*SUBJ 1999 Ash Results
Pasco County Resource Recovery Facility*

Dear Ms Amram

Attached, please find the results of the quarterly ash sampling conducted at the Pasco County Resource Recovery Facility in 1999. Please do not hesitate to contact me at (727) 856-2917 if additional information is needed.

Sincerely,



Jason M Gorrie
Senior Environmental Engineer

c V Mannella
file

D.E.P.
MAR 20 2000
Southwest District Tampa

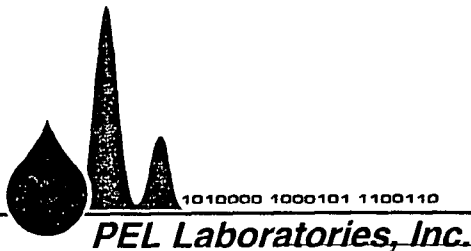


PASCO COUNTY RESOURCE RECOVERY FACILITY
 ASH ANALYSIS RESULTS
 1999 SUMMARY

Sampling Period	Composite Date	Sb (mg/kg)	As (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Hg (mg/kg)	Ni (mg/kg)	Se (mg/kg)	Ag (mg/kg)	Ti (mg/kg)	Zn (mg/kg)
1st QTR	4/5/99	160	41	0.24	70	42	4700	870	1.83	26	2.1	3.1	ND	6400
2nd QTR	7/14/99	150	36	0.24	50	47	590	1200	3.9	28	1.6	4.9	ND	4900
3rd QTR	9/20/99	56	ND	ND	26	160	1100	200	1.87	150	ND	ND	110	960
4th QTR	12/16/99	62	23	0.15	28	44	1760	521	0.08	437	ND	3.3	110	960

STATISTICAL RESULTS

Maximum	160	41	0.24	70	160	4700	1200	3.9	437	2.1	4.9	110	6400
Minimum	56	23	0.15	26	42	590	200	0.08	26	1.6	3.1	110	960
Mean	107.00	33.33	0.21	43.50	73.25	2037.50	697.75	1.92	160.25	1.85	3.77	110.00	3772.50
Standard Deviation	55.63	9.29	0.05	20.74	57.87	1838.48	432.40	1.56	193.40	0.35	0.99	err	2378.62



- CERTIFICATE OF ANALYSIS -
 (HRS #E84207 and FDER CompQap #900306)

To Ogden Martin Systems Pasco Co
 14320 Hay Road
 Spring Hill, FL 34610

Report Date 4/15/99
 Page 1 of 2

Attn Jason Gorrie

PEL Lab # 9904-00023-1
 Client ID Comp Jan, Feb, March
 Project ID
 Location Pasco County
 Matrix Solid

Collection Information
 Sample Date 4/05/99
 Sample Time 16 00
 Sampled By Client
 Sample Quality.

Parameter	Method	Results	ND = Less than RL	
			Units	RL
ICP P P Metals (Soil)	EPA 6010			
Silver	EPA 6010	3 1	mg/kg	0 32
Arsenic	EPA 6010	41	mg/kg	0 52
Beryllium	EPA 6010	0 24	mg/kg	0 18
Cadmium	EPA 6010	70	mg/kg	0 16
Chromium	EPA 6010	42	mg/kg	0 18
Copper	EPA 6010	4700	mg/kg	0 78
Nickel	EPA 6010	26	mg/kg	0 33
Lead	EPA 6010	870	mg/kg	0 27
Antimony	EPA 6010	160	mg/kg	0 51
Selenium	EPA 6010	2 1	mg/kg	0 30
Thallium	EPA 6010	ND	mg/kg	0 86
Zinc	EPA 6010	6400	mg/kg	84
Mercury	EPA 7471	2 00	mg/kg	0 19
Moisture	SM 2540G (MOD)	10 0	%	

Progress Environmental Laboratories

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To Ogden Martin Systems Pasco Co
14320 Hay Road
Spring Hill, FL 34610

Report Date: 4/15/99
Page 2 of 2

Attn Jason Gorrie

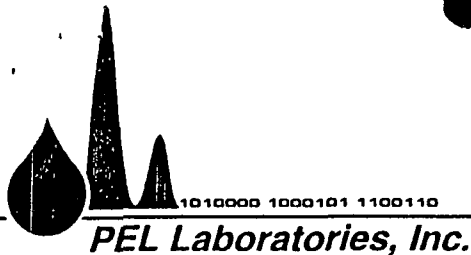
PEL Lab # 9904-00023-2
Client ID March
Project ID
Location Pasco County
Matrix Solid

Collection Information
Sample Date: 4/05/99
Sample Time: 16 00
Sampled By : Client
Sample Quality

Parameter	Method	Results	ND = Less than RL	
			Units	RL
Mercury	EPA 7471	1 83	mg/kg	0 15
Moisture	SM 2540G (MOD)	11 6	%	

Respectfully submitted,
Brian Spann, Laboratory Manager.





- CERTIFICATE OF ANALYSIS -
 (HRS #E84207 and FDER CompQap #900306)

To: Ogden Martin Systems Pasco Co
 14320 Hay Road
 Spring Hill, FL 34610

Report Date: 7/21/99
 Page: 1 of 1

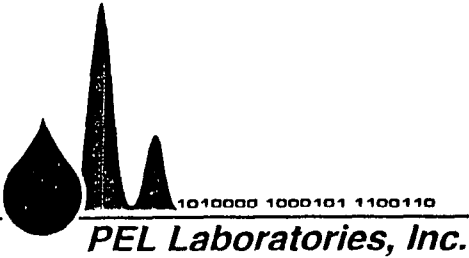
Attn: Jason Gorrie

PEL Lab # . 9907-00097-1
 Client ID : 2nd Quarter 1999
 Project ID : Composite of Apr May Jun
 Location : Pasco County
 Matrix : Solid

Collection Information:
 Sample Date: 7/14/99
 Sample Time: 11:00
 Sampled By : PEL/DS
 Sample Quality:

Parameter	Method	Results	ND = Less than RL	
			Units	RL
Moisture	SM 2540G (MOD.)	16.2	%	
ICP P.P. Metals(Soil)	EPA 6010			
Silver	EPA 6010	4 9	mg/kg	0.19
Arsenic	EPA 6010	36	mg/kg	0.69
Beryllium	EPA 6010	0.24	mg/kg	0.093
Cadmium	EPA 6010	50	mg/kg	0.083
Chromium	EPA 6010	47	mg/kg	0.10
Copper	EPA 6010	590	mg/kg	0.093
Nickel	EPA 6010	28	mg/kg	0.21
Lead	EPA 6010	1200	mg/kg	1.1
Antimony	EPA 6010	150	mg/kg	0.44
Selenium	EPA 6010	1.6	mg/kg	0.62
Thallium	EPA 6010	ND	mg/kg	0.58
Zinc	EPA 6010	4900	mg/kg	1.3
Mercury	EPA 7471	1.4	mg/kg	0.53

Respectfully submitted,  FOR
 Brian Spann, Laboratory Manager.



- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To: Ogden Martin Systems Pasco Co
14320 Hay Road
Spring Hill, FL 34610

Report Date 7/21/99
Page 1 of 1

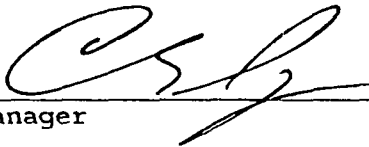
Attn: Jason Gorrie

PEL Lab # : 9907-00098-1
Client ID : 2nd quarter 1999
Project ID : Composite of Large + Small
Location : Pasco County
Matrix : Solid

Collection Information
Sample Date: 7/14/99
Sample Time: 11:00
Sampled By : PEL/DS
Sample Quality:

Parameter	Method	Results	ND = Less than RL	
			Units	RL
Moisture	SM 2540G (MOD.)	16.4	%	
Mercury	EPA 7471	3.9	mg/kg	0.46

Respectfully submitted,
Brian Spann, Laboratory Manager

 FOR



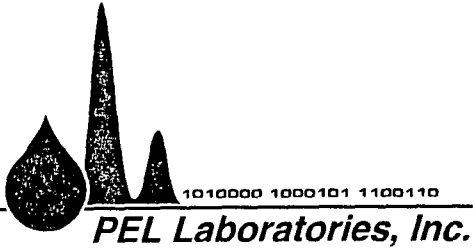
Progress Environmental Laboratories

Nº 217 5

4420 Pendola Point Road
Tampa, Florida 33619
(813) 247-2805
FAX (813) 248-1537

1021

Client <u>GENETERRIA FACILITY</u>		Due Date(TAT):		AS		
Project Mgr <u>JASON GARRIL</u>		Fax Reports to: () -		9907-98		
Project <u>PASCO COUNTY</u>		Bill to <u>CLIENT</u>		MSK		
Project # <u>JUNE 1999</u>		Sampler's Initials				
PO #						
Station ID	Date	Time	PEL Lab #	# of Bttls	Pres	Remarks
4 HR COMBASH SAMPLE > 3 1/2" DIAMETER	6/30			1 Bucket		
4 HR COMBASH SAMPLE < 3 1/8" DIAMETER	6/30			1 Bucket		
Composite	7/19/99	1100	OLS		XX	
Relinquished By	Received By	Date	Time	Project Notes		
<u>JASON GARRIL</u>	<u>[Signature]</u>	7/1/99	1100			
Relinquished By	Received By	Date	Time			
Relinquished By	Received By	Date	Time			
Relinquished By	Received By	Date	Time	due 7/21		



- CERTIFICATE OF ANALYSIS -
 (HRS #E84207 and FDER CompQap #900306)

To Ogden Martin Systems Lake Co
 3830 Rodger Industrial Park Rd
 Okahumpka, FL 34762

Report Date 10/04/99
 Page 1 of 2

Attn Jeff Bedford

PEL Lab # . 9909-00235-1
 Client ID . Lake Co / Sept99
 Project ID . 3rd Qtr Comp
 Location Ash Sampling
 Matrix Solid

Collection Information
 Sample Date 9/20/99
 Sample Time 0 00
 Sampled By : Client
 Sample Quality

Parameter	Method	Results	ND = Less than RL	
			Units	RL
ICP P P Metals(Soil)	EPA 6010			
Silver	EPA 6010	ND	mg/kg	20
Arsenic	EPA 6010	ND	mg/kg	75
Beryllium	EPA 6010	ND	mg/kg	10
Cadmium	EPA 6010	26	mg/kg	9 0
Chromium	EPA 6010	160	mg/kg	11
Copper	EPA 6010	1100	mg/kg	10
Nickel	EPA 6010	150	mg/kg	23
Lead	EPA 6010	200	mg/kg	12
Antimony	EPA 6010	56	mg/kg	48
Selenium	EPA 6010	ND	mg/kg	67
Thallium	EPA 6010	110	mg/kg	63
Zinc	EPA 6010	960	mg/kg	14
Moisture	SM 2540G (MOD)	17 5	%	

PEL Laboratories, Inc

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To. Ogden Martin Systems Lake Co.
3830 Rodger Industrial Park Rd
Okahumpka, FL 34762

Report Date: 10/04/99
Page: 2 of 2

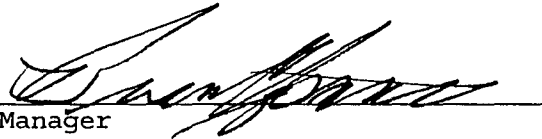
Attn Jeff Bedford

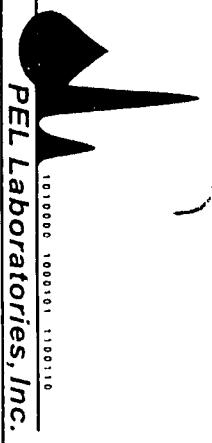
PEL Lab # . 9909-00235-2
Client ID . Lake Co / 3rd qtr
Project ID . 3rd Qtr Comp
Location . Ash Sampling
Matrix . Solid

Collection Information:
Sample Date 9/20/99
Sample Time 0 00
Sampled By . Client
Sample Quality:

Parameter	Method	Results	ND = Less than RL	
			Units	RL
Mercury	EPA 7471	1.87	mg/kg	0.1
Moisture	SM 2540G (MOD.)	14.7	%	

Respectfully submitted,
Brian Spann, Laboratory Manager





1010000 1000101 1100110
PEL Laboratories, Inc.

**Chain of Custody Record
 Record/Work Request**

NO 0064

9609-235

4420 Pendola Point Road
 Tampa, Florida 33619
 (813) 247-2805 • Fax (813) 248-1537
 E-Mail login@Pelab.com

Company **OGDEN MARTIN FACILITY** Project Name/Number **3RD QTR 1999 CCMP ASH SAMPLING** Page 1 of 1

Address **HILLSBOROUGH COUNTY FACILITY** Project Manager **RENE A BIGARI** Form Title **Chain of Custody Record**
 Effective Date **September 23, 1997**

Phone **313-684-5633** Fax **313-684-5633** Purchase Order **PROGRESSIVE** FDEP Facility No **PROJECT ONLY COMPO**

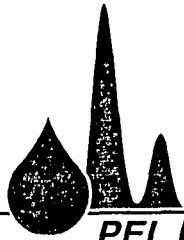
Print Name(s) / Affiliation **PROGRESSIVE** DEP Form # **62-770.90012** Project Name **STRELY COMPO**
 Sampler(s) Signature(s) **AFRECHTA** Approval Date **REQUESTED DUE DATE**

Item No	Field ID No	Sampled Date Time	Grab or Composite	Matrix (see codes)	Number of Containers	Analyses Requested		Remarks	Lab No
						PPM	Hg		
1	LAKE CO/SEPT 99	9/20/99	CCMP	ASH	1	X	X		
2	PRECO/SEPT 99	9/20/99	CCMP	ASH	1	X	X		
3	HILLSBOROUGH/SEPT 99	9/15/99	CCMP	ASH	1	X	X		
4	LAKE CO/3RD QTR 99	9/20/99	CCMP	ASH	1	X	X		
5	PRECO/3RD QTR 99	9/20/99	CCMP	ASH	1	X	X		
6	HILL CO/3RD QTR 99	9/15/99	CCMP	ASH	1	X	X		
Shipment Method						← Total Number of Containers			

Out / / Via **Via** Item Nos **11** Relinquished by / Affiliations **AFRECHTA** Date **9/24/99** Accepted by / Affiliation **RENE A BIGARI** Date **9/24/99**
 Returned / / Via **Via** Item Nos **11** Relinquished by / Affiliations **AFRECHTA** Date **9/24/99** Accepted by / Affiliation **RENE A BIGARI** Date **9/24/99**

Additional Comments **PPM (not including Hg) Temp below 100°C only Lake Co Samples only**
 Analyses **Permits 9/24/99**
 Cooler No (s) / Temperature(s) (C) **10-1-99** Sampling Kit No **10-1-99** Equipment ID No **10-1-99**

MATRIX CODES **A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)**
 PRESERVATION CODES **H-Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)**



PEL Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

Report Date: 12/27/1999

To: Jason Gorrie
Ogden Martin Systems Pasco Co
14320 Hay Road
Spring Hill, FL 34610

PROJECT ID Pasco Cnty 1999 4th quarter
Work Order Number 9912448
RECEIVE DATE Friday, December 17, 1999

Chain of Custody Record **NO 0069**
Record/Work Request

4420 F. ... dola Point Road
 Tampa, Florida 33619
 (813) 247-2805 • Fax (813) 248-1537
 E-Mail login@Pelab.com

9912-448 DS

Project Name/Number		Page of	
4TH QUARTER 1999 COMP. ASH RESIDUE		DEP Form # 62-770-900(2)	
Project Manager		Form Title Chain of Custody Record	
JASON GORRIE		Effective Date September 23, 1997	
Purchase Order		FDEP Facility No	
AR CANGELI		Project Name	
n g e l i		Sampling CompQAP No	
Sampled		Approval Date	
Grab or Composite	Matrix (see codes)	Number of Containers	REQUESTED DUE DATE
COMP	ASH	2 1	/ /
COMP	ASH	2 1	Remarks
← Total Number of Containers			Lab No
Item Nos	Relinquished by / Affiliations	Date	Time
1, 2	A Franchangeli	12/17	12/17/97 1357
Cooler No (s) / Temperature(s) (C)		Accepted by / Affiliation	Equipment ID No
		RSB → per	

SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)
 I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To: Jason Gorrie
 Ogden Martin Systems Pasco Co

PROJECT_SEQ 9912448
PROJECT_ID Pasco Cnty 1999 4th quarter

PEL Lab# : 991244801
Chent ID : 4th Quarter Composite
Matrix : Soil

Collection Information:
Sample Date: 12/16/1999

ND = Less than RL

Parameter	Method	Results	Units	RL
Dry Weight	SM-2540	87.37	%	
INORGANICS	SW-846 6010			
Antimony	SW-846 6010	62	mg/Kg	0.20
Arsenic	SW-846 6010	23	mg/Kg	0.20
Beryllium	SW-846 6010	0.15	mg/Kg	0.10
Cadmium	SW-846 6010	28	mg/Kg	0.10
Chromium	SW-846 6010	44	mg/Kg	0.10
Copper	SW-846 6010	1760	mg/Kg	0.10
Lead	SW-846 6010	521	mg/Kg	0.20
Nickel	SW-846 6010	437	mg/Kg	0.20
Selenium	SW-846 6010	ND	mg/Kg	0.30
Silver	SW-846 6010	3.3	mg/Kg	0.10
Thallium	SW-846 6010	ND	mg/Kg	0.60
Zinc	SW-846 6010	2830	mg/Kg	0.60

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To: Jason Gorrie
Ogden Martin Systems Pasco Co

PROJECT_SEQ 9912448
PROJECT_ID Pasco Cnty 1999 4th quarter

PEL Lab# : 991244802
Client ID : Dec 1999 Composite
Matrix : Soil

Collection Information:
Sample Date: 12/16/1999

ND = Less than RL

Parameter	Method	Results	Units	RL
Dry Weight	SM-2540	80 39	%	
INORGANICS	SW-846 7471			
Mercury	SW-846 7471	0 080	mg/Kg	0 034



Brian C. Spann
Laboratory Manager

OGDEN



JM JOM
KF

D.E.P.

MAR 02 2001
Southwest District Tampa

Ogden Martin Systems of Pasco
14230 Hays Road
Spring Hill, FL 34610
813 856 2917
Fax 813 856 0007

28 February 2001

Mr Bob Butera, P E
Solid Waste Program
FDEP, Southwest District Office
3804 Coconut Palm Drive
Tampa, Florida 33619

COPY SENT TO
DAVE MASON
5/29/01

*SUBJ 2000 Ash Results
Pasco County Resource Recovery Facility*

Dear Mr Butera

Attached, please find the results of the quarterly ash sampling conducted at the Pasco County Resource Recovery Facility in 2000 Please do not hesitate to contact me at (727) 856-2917 if additional information is needed

Sincerely,

Viet Q. Ta, REM
Facility Environmental Engineer

xc: V Mannella
D Fontenot, Resource Recycling, LLC
file



PASCO COUNTY RESOURCE RECOVERY FACILITY
 ASH ANALYSIS RESULTS
 2000 SUMMARY

Sampling Period	Composite Date	Sb (mg/kg)	As (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Hg (mg/kg)	Ni (mg/kg)	Se (mg/kg)	Ag (mg/kg)	Th (mg/kg)	Zn (mg/kg)
1st QTR	3/23/00	143	33	ND	53	84	1240	1300	0.1	33	ND	6.2	ND	4750
2nd QTR	6/25/00	135	59	ND	83	65	462	973	6	38	ND	5.4	ND	6910
3rd QTR	10/1/01	460	35	0.31	47	37	46000	1200	2.8	22	0.76	4.6	ND	4500
4th QTR	1/9/01	80	31	0.42	48	50	1840	1040	2.74	26	0.86	6	ND	8260

STATISTICAL RESULTS

Maximum	460	59	0.42	83	84	46000	1300	6	38	0.86	6.2	NA	8260
Minimum	80	31	0.31	47	37	462	973	0.1	22	0.76	4.6	NA	4500
Mean	204.50	39.50	0.37	57.75	59.00	12385.50	1128.25	2.91	29.75	0.81	5.55	NA	6105.00
Standard Deviation	172.62	13.10	0.08	17.04	20.22	22416.77	148.93	2.41	7.14	0.07	0.72	NA	1798.53

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDER CompQap #900306)

To:
Ogden Martin Systems
PEL Lab# : 200400702
Client ID : Pasco County
Matrix : Soil

PROJECT_SEQ 2004007
PROJECT ID 1st Quarter 2000 Ash Sampling
Collection Information:
Sample Date: 3/23/00
ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
Percent Moisture		29.46			
INORGANICS	SW-846 7471				
Mercury	SW-846 7471	0.10	mg/Kg	0.027	1

- CERTIFICATE OF ANALYSIS -
 (HRS #E84207 and FDER CompQap #900306)

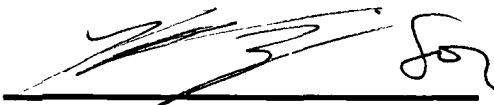
To: Ogden Martin Systems

PROJECT_SEQ 2004007
 PROJECT ID 1st Quarter 2000 Ash Sampling

PEL Lab# : 200400705
 Client ID : Pasco County
 Matrix : Soil

Collection Information:
Sample Date: 3/23/00
ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
Percent Moisture		15.18			
INORGANICS	SW-846 6010				
Antimony	SW-846 6010	143	mg/Kg	2.5	5
Arsenic	SW-846 6010	33	mg/Kg	2.5	5
Beryllium	SW-846 6010	ND	mg/Kg	0.50	5
Cadmium	SW-846 6010	53	mg/Kg	0.50	5
Chromium	SW-846 6010	84	mg/Kg	1.0	5
Copper	SW-846 6010	1240	mg/Kg	2.5	5
Lead	SW-846 6010	1300	mg/Kg	1.0	5
Nickel	SW-846 6010	33	mg/Kg	2.5	5
Selenium	SW-846 6010	ND	mg/Kg	2.5	5
Silver	SW-846 6010	6.2	mg/Kg	0.50	5
Thallium	SW-846 6010	ND	mg/Kg	3.0	5
Zinc	SW-846 6010	4750	mg/Kg	5.0	5



 Brian C. Spann
 Laboratory Manager

**- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDEP CompQap #900306)**

To: Jason Gorrie
Ogden Martin Systems Pasco Co

PROJECT_SEQ 2006234
PROJECT ID 2nd Quarter 2000 / Pasco

PEL Lab# : 200623401
Client ID : June 2000 Comp
Matrix : Soil

Collection Information:
Sample Date: 6/25/00 8 00 00 PM
ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
INORGANICS	SW-846 7471				
Mercury	SW-846 7471	6 0	mg/Kg	1 6	100

(*) Short Hold Time Analysis Date

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDEP CompQap #900306)

To: Jason Gorrie
 Ogden Martin Systems Pasco Co


PROJECT_SEQ 2006234
 PROJECT ID 2nd Quarter 2000 / Pasco

PEL Lab# : 200623402
Client ID : 2nd Quarter 2000 Comp
Matrix : Soil

Collection Information:
Sample Date: 6/27/00 4 00 00 PM
ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
INORGANICS	SW-846 6010				
Antimony	SW-846 6010	135	mg/Kg	5 0	10
Arsenic	SW-846 6010	59	mg/Kg	5 0	10
Beryllium	SW-846 6010	ND	mg/Kg	1 0	10
Cadmium	SW-846 6010	83	mg/Kg	1 0	10
Chromium	SW-846 6010	65	mg/Kg	2 0	10
Copper	SW-846 6010	462	mg/Kg	5 0	10
Lead	SW-846 6010	973	mg/Kg	2 0	10
Nickel	SW-846 6010	38	mg/Kg	5 0	10
Selenium	SW-846 6010	ND	mg/Kg	5 0	10
Silver	SW-846 6010	5 4	mg/Kg	1 0	10
Thallium	SW-846 6010	ND	mg/Kg	6 0	10
Zinc	SW-846 6010	6910	mg/Kg	10	10

(*) Short Hold Time Analysis Date


 Brian C Spann Laboratory Manager
 Jodi Hutchins Quality Assurance
 Lara Keene Semi-Volatiles Team Leader
 Lisa Pelo Volatiles Team Leader
 Luis Levy Solo Metals Chemist

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDEP CompQap #900306)

To: Jason Gorrie
Ogden Martin Systems Pasco Co

PEL Lab# : 200927801
Client ID : Sept 2000 Composite
Matrix : Soil

PROJECT_SEQ 2009278
PROJECT ID Quarterly Residue sampling
Collection Information:
Sample Date: 10/1/00 2 00 00 PM
ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
Percent Moisture		16.0	%		
INORGANICS	SW-846 7471				10
Mercury	SW-846 7471	2.8	mg/Kg	0.20	10

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDEP CompQap #900306)

To: Jason Gorrie
 Ogden Martin Systems Pasco Co

PROJECT_SEQ 2009278
 PROJECT ID Quarterly Residue sampling

PEL Lab# : 200927802
Client ID : 3rd QTR 2000 Composite
Matrix : Soil

Collection Information:
Sample Date: 10/1/00 3 20 00 PM
ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
Percent Moisture		15.4	%		
INORGANICS	SW-846 6010				1
Antimony	SW-846 6010	460	mg/Kg	0.50	1
Arsenic	SW-846 6010	35	mg/Kg	0.50	1
Beryllium	SW-846 6010	0.31	mg/Kg	0.10	1
Cadmium	SW-846 6010	47	mg/Kg	0.10	1
Chromium	SW-846 6010	37	mg/Kg	0.20	1
Lead	SW-846 6010	1200	mg/Kg	0.20	1
Nickel	SW-846 6010	22	mg/Kg	0.50	1
Selenium	SW-846 6010	0.76	mg/Kg	0.50	1
Silver	SW-846 6010	4.6	mg/Kg	0.10	1
Thallium	SW-846 6010	ND	mg/Kg	0.60	1
INORGANICS	SW-846 6010				25
Copper	SW-846 6010	46000	mg/Kg	13	25
Zinc	SW-846 6010	4500	mg/Kg	25	25



 Brian C. Spann
 Laboratory Manager

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDEP CompQap #900306)

To: Jason Gorrie
 Ogden Martin Systems Pasco Co


PROJECT_SEQ 2101252
 PROJECT ID 4th Qtr 2000 Residue Splg

PEL Lab# : 210125202
Client ID : 4th Qtr Composite
Matrix : Soil

Collection Information:
Sample Date: 1/9/01 1 00 00 PM
ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
INORGANICS	SW-846 6010				
Antimony	SW-846 6010	80	mg/Kg	0 500	1
Arsenic	SW-846 6010	31	mg/Kg	0 500	1
Beryllium	SW-846 6010	0 42	mg/Kg	0 100	1
Cadmium	SW-846 6010	48	mg/Kg	0 100	1
Chromium	SW-846 6010	50	mg/Kg	0 200	1
Copper	SW-846 6010	1840	mg/Kg	0 500	1
Lead	SW-846 6010	1040	mg/Kg	0 200	1
Nickel	SW-846 6010	26	mg/Kg	0 500	1
Selenium	SW-846 6010	0 86	mg/Kg	0 500	1
Silver	SW-846 6010	6 0	mg/Kg	0 100	1
Thallium	SW-846 6010	ND	mg/Kg	0 600	1
Zinc	SW-846 6010	8260	mg/Kg	5 00	5
INORGANICS	SW-846 7471				
Mercury	SW-846 7471	2 74	mg/Kg	0 200	10

(*) Short Hold Time Analysis Date


 Brian C Spann Laboratory Manager
 Jodi Hutchins Quality Assurance
 Lara Keene Semi-Volatiles Team Leader
 Lisa Pelo Volatiles Team Leader
 Luis Levy Solo Metals Chemist

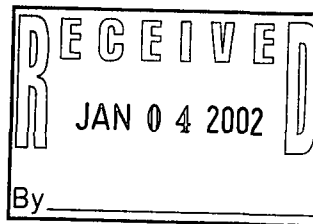
JM



Covanta Pasco, Inc
A Covanta Energy Company
14230 Hays Road
Spring Hill, FL 34610
Tel 727 856 2917
Fax 727 856 0007

January 2, 2002

Mr. Bob Butera, P.E
Solid Waste Program
FDEP, Southwest District Office
3804 Coconut Palm Drive
Tampa, Florida 33619



*SUBJ 2001 Ash Results
Pasco County Resource Recovery Facility*

Dear Mr. Butera

Attached, please find the results of the quarterly ash sampling conducted at the Pasco County Resource Recovery Facility in ~~2000~~ ²⁰⁰¹

Please do not hesitate to contact me at (727) 856-2917 if additional information is needed

Sincerely,

Joseph Miller

Joseph Miller
Facility Manager

xc: J. Power, Pasco County
D. Fontenot, Resource Recycling, LLC
Viet Ta
file

*copy sent to
LEE MARTIN
3/10/02
JEM*



PASCO COUNTY RESOURCE RECOVERY FACILITY
 ASH ANALYSIS RESULTS
 2001 SUMMARY

Sampling Period	Composite Date	Sb (mg/kg)	As (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Hg (mg/kg)	Ni (mg/kg)	Se (mg/kg)	Ag (mg/kg)	Th (mg/kg)	Zn (mg/kg)
1st QTR	4/20/01	89	29	0.24	42	37	1250	1060	8.08	30	ND	4.5	ND	4170
2nd QTR	7/3/01	95.5	36.9	0.181	48.4	39.2	1250	1250	6.03	46.1	ND	3.81	ND	6400
3rd QTR	10/11/01	102	51	ND	50	71	537	901	8.42	17	2.4	6.3	ND	3740
4th QTR	12/7/01	134	43	0.28	64	62	2310	1760	9.89	314	4.1	6	ND	5880

STATISTICAL RESULTS

Maximum	134	51	0.28	64	71	2310	1760	9.89	314	4.1	6.3	NA	6400
Minimum	89	29	0.181	42	37	537	901	6.03	17	2.4	3.81	NA	3740
Mean	105.1	39.98	0.23	51.10	52.30	1337	1243	8.11	101.8	3.3	5.15	NA	5048
Standard Deviation	20.0	9.32	0.05	9.27	16.83	731	373	1.59	142.0	1.2	1.19	NA	1291

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDEP CompQap #900306)

To: Viet Ta
 Covanta Energy Hills Co

WORK ORDER: 2104189

PROJECT ID: Pasco Co 1st Qtr 2001

PEL Lab# : 210418902

Collection Information:

Client ID : 1STQTR2001Composite

Sample Date: 4/20/01 4 10 00 PM

Matrix : Soil

ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
INORGANICS	SW-846 6010				
Antimony	SW-846 6010	89	mg/Kg	0 500	1
Arsenic	SW-846 6010	29	mg/Kg	0 500	1
Beryllium	SW-846 6010	0 24	mg/Kg	0 100	1
Cadmium	SW-846 6010	42	mg/Kg	0 100	1
Chromium	SW-846 6010	37	mg/Kg	0 200	1
Copper	SW-846 6010	1250	mg/Kg	0 500	1
Lead	SW-846 6010	1060	mg/Kg	0 200	1
Nickel	SW-846 6010	30	mg/Kg	0 500	1
Selenium	SW-846 6010	ND	mg/Kg	0 500	1
Silver	SW-846 6010	4 5	mg/Kg	0 100	1
Zinc	SW-846 6010	4170	mg/Kg	10 0	10
Thallium	SW-846 6010	ND	mg/Kg	3 00	5
INORGANICS	SW-846 7471				
Mercury	SW-846 7471	7 23 Q	mg/Kg	0 200	10

(*) Short Hold Time Analysis Date



Brian C Spann Laboratory Manager
 Jodi Hutchins Quality Assurance
 Lara Keene Semi-Volatiles Team Leader
 Lisa Pelo Volatiles Team Leader

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDEP CompQap #900306)

To: Viet Ta
Covanta Energy Hills Co

WORK ORDER: 2104189

PROJECT ID: Pasco Co 1st Qtr 2001

PEL Lab# : 210418901

Collection Information:

Client ID : March2001Composite

Sample Date: 4/20/01 4 00 00 PM

Matrix : Soil

ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
INORGANICS	SW-846 7471				
Mercury	SW-846 7471	8 08	mg/Kg	0 400	20

(*) Short Hold Time Analysis Date

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDEP CompQap #900306)

To: Viet Ta
 Covanta Energy Pasco Co

WORK ORDER: 2106231
PROJECT ID: Pasco Co 2nd Quarter 2001

PEL Lab# : 210623102
Client ID : 2ND QTR 2001 COMPOSITE
Matrix : Soil

Collection Information:
Sample Date: 7/3/01 9 00 00 AM
ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
INORGANICS	SW7841				
Thallium	SW7841	ND	mg/Kg	0.198	1
INORGANICS	SW-846 6010				
Antimony	SW-846 6010	95.5	mg/Kg	0.500	1
Arsenic	SW-846 6010	36.9	mg/Kg	0.500	1
Beryllium	SW-846 6010	0.181	mg/Kg	0.100	1
Cadmium	SW-846 6010	48.4	mg/Kg	0.100	1
Chromium	SW-846 6010	39.2	mg/Kg	0.200	1
Copper	SW-846 6010	1250	mg/Kg	0.500	1
Lead	SW-846 6010	1250	mg/Kg	0.200	1
Silver	SW-846 6010	3.81	mg/Kg	0.100	1
Nickel	SW-846 6010	46.1	mg/Kg	5.00	10
Selenium	SW-846 6010	ND	mg/Kg	5.00	10
Zinc	SW-846 6010	6400	mg/Kg	10.0	10
INORGANICS	SW-846 7471				
Mercury	SW-846 7471	6.14	mg/Kg	0.200	10

(*) Short Hold Time Analysis Date

- CERTIFICATE OF ANALYSIS -
(HRS #E84207 and FDEP CompQap #900306)

To: Viet Ta
Covanta Energy Pasco Co

WORK ORDER: 2106231

PROJECT ID: Pasco Co 2nd Quarter 2001

PEL Lab# : 210623101

Collection Information:

Client ID : JUNE 2001 COMPOSITE

Sample Date: 7/3/01 9 00 00 AM

Matrix : Soil

ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
INORGANICS	SW-846 7471				
Mercury	SW-846 7471	6.03	mg/Kg	0.200	10

(*) Short Hold Time Analysis Date

- CERTIFICATE OF ANALYSIS -



FLDOH #E84207

To: Viet Ta
Covanta Energy Pasco Co

WORK ORDER: 2110021
PROJECT ID: 3RD QUARTER 2001

PEL Lab# : 211002102
Client ID : 3RD QTR 2001 COMPOSITE
Matrix : Soil

Collection Information:
Sample Date: 10/11/01 4 00 00 PM
ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
INORGANICS	SW-846 6010				
Antimony	SW-846 6010	102	mg/Kg	0 500	1
Arsenic	SW-846 6010	51	mg/Kg	1 00	1
Beryllium	SW-846 6010	ND	mg/Kg	0 200	1
Cadmium	SW-846 6010	50	mg/Kg	0 500	1
Chromium	SW-846 6010	71	mg/Kg	0 200	1
Copper	SW-846 6010	537	mg/Kg	0 500	1
Lead	SW-846 6010	901	mg/Kg	0 300	1
Nickel	SW-846 6010	17	mg/Kg	0 500	1
Selenium	SW-846 6010	2 4	mg/Kg	1 00	1
Silver	SW-846 6010	6 3	mg/Kg	0 100	1
Thallium	SW-846 6010	ND	mg/Kg	0 600	1
Zinc	SW-846 6010	3740	mg/Kg	5 00	5
INORGANICS	SW-846 7471				
Mercury	SW-846 7471	5 40	mg/Kg	0 200	10

- CERTIFICATE OF ANALYSIS -



FLDOH #E84207

To: Viet Ta
Covanta Energy Pasco Co

WORK ORDER: 2111182
PROJECT ID: Pasco Co -4th QTR 2001

PEL Lab# : 211118201

Collection Information:

Client ID : 4thQTR2001COMPOSITE

Sample Date: 12/7/01 10 00 00 AM

Matrix : Soil

ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
INORGANICS	SW-846 6010				
Antimony	SW-846 6010	134	mg/Kg	0 260	1
Arsenic	SW-846 6010	43	mg/Kg	0 220	1
Beryllium	SW-846 6010	0 28	mg/Kg	0 100	1
Cadmium	SW-846 6010	64	mg/Kg	0 100	1
Chromium	SW-846 6010	62	mg/Kg	0 200	1
Lead	SW-846 6010	1760	mg/Kg	0 130	1
Nickel	SW-846 6010	314	mg/Kg	0 500	1
Selenium	SW-846 6010	4 1	mg/Kg	0 100	1
Silver	SW-846 6010	6 0	mg/Kg	0 200	1
Zinc	SW-846 6010	5880	mg/Kg	10 0	10
Copper	SW-846 6010	2310	mg/Kg	2 50	5
Thallium	SW-846 6010	ND	mg/Kg	1 40	5
INORGANICS	SW-846 7471				
Mercury	SW-846 7471	6 06	mg/Kg	0 200	10

- CERTIFICATE OF ANALYSIS -



FLDOH #E84207

To: Viet Ta
Covanta Energy Pasco Co

WORK ORDER: 2111182
PROJECT ID: Pasco Co -4th QTR 2001

PEL Lab# : 211118202
Client ID : DEC2001COMPOSITE
Matrix : Soil

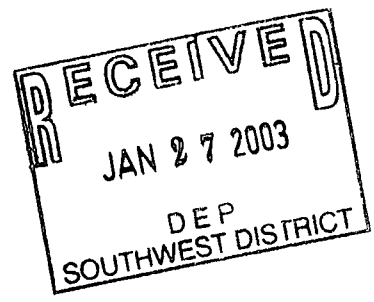
Collection Information:
Sample Date: 12/7/01 10 30 00 AM
ND = Less than RL

Parameter	Method	Results	Units	RL	Dilution Factor
INORGANICS	SW-846 7471				
Mercury	SW-846 7471	9.89	mg/Kg	0.200	10

26255 ✓



Covanta Pasco, Inc
A Covanta Energy Company
14230 Hays Road
Spring Hill, FL 34684
Tel 727 856 2917
Fax 727 856 0007



January 24, 2003

Mr Bob Butera, P E
Solid Waste Program
FDEP, Southwest District Office
3804 Coconut Palm Drive
Tampa, Florida 33619

*SUBJ 2002 Ash Results
Pasco County Resource Recovery Facility*

Dear Mr. Butera:

Attached, please find the results of the quarterly ash sampling conducted at the Pasco County Resource Recovery Facility

Please contact Viet Ta, Facility Environmental at (727) 856-2917 if additional information is needed

Sincerely,

Joseph Miller
Facility Manager

copy J Power, Pasco County
D Fontenot, Resource Recycling, LLC
Viet Ta
file

NOTE: LABORATORY REPORT
OF RESULTS NOT
PROVIDED BY COVANTA

COPY SENT TO
LEE MARTIN/TALLY
1/28/03 JTM

PASCO COUNTY RESOURCE RECOVERY FACILITY
 ASH ANALYSIS RESULTS
 2002 SUMMARY

Sampling Period	Composite Date	Sb (mg/kg)	As (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Hg (mg/kg)	Ni (mg/kg)	Se (mg/kg)	Ag (mg/kg)	Th (mg/kg)	Zn (mg/kg)
1st QTR	4/15/2002	172	54	0.13	72	50	2110	1420	10.5	51	1.1	5.9	ND	6190
2nd QTR	7/3/2002	163	46	0.15	57	49	932	1550	4.9	43	1.2	6.2	ND	4540
3rd QTR	9/9/2002	92	40	ND	74	493	2010	2270	2.2	95	ND	8.9	2.1	6250
4th QTR	12/20/2002	60	77	1	102	81	1410	1780	1.4	66	1.2	2.5	10	8240

STATISTICAL RESULTS

Maximum	172	77	1	102	493	2110	2270	10.5	95	1.2	8.9	NA	8240
Minimum	60	40	0.13	57	49	932	1420	1.4	43	1.1	2.5	NA	4540
Mean	121.8	54.25	0.43	76.25	168.25	1616	1755	4.75	63.8	1.2	5.88	NA	6305
Standard Deviation	54.5	16.21	0.50	18.77	217.01	551	374	4.12	22.9	0.1	2.62	NA	1514

PASCO COUNTY RESOURCE RECOVERY FACILITY
 ASH ANALYSIS RESULTS
 2003 SUMMARY

Sampling Period	Composite Date	Sb (mg/kg)	As (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Hg (mg/kg)	Ni (mg/kg)	Se (mg/kg)	Ag (mg/kg)	Th (mg/kg)	Zn (mg/kg)
1st QTR	3/3/2003	54	64	1	104	70	1120	1560	4	43	13	66	10	8420
2nd QTR	6/2/2003	158	79	1	96	84	1180	1640	32	49	11	77	10	7610
3rd QTR	9/30/2003	59	99	1	105	79	1020	1880	47	39	11	72	10	8140
4th QTR	12/8/2003	104	15	1	124	78	1420	1500	47	45	11	13	10	9800

STATISTICAL RESULTS

Maximum	158	99	1	124	84	1420	1880	47	49	13	13	13	NA	9800
Minimum	54	15	1	96	70	1020	1500	32	39	11	11	66	NA	7610
Mean	93.8	60.88	1.00	107.25	77.75	1185	1645	41.5	44.0	12	12	8.63	NA	8493
Standard Deviation	48.4	42.10	0.00	11.87	5.80	170	167	0.71	4.2	0.1	0.1	2.95	NA	934

FLORIDA DEPARTMENT OF
 ENVIRONMENTAL PROTECTION
 JAN 28 2004
 SOUTHWEST DISTRICT
 TAMPA

DEP ROUTING AND TRANSMITTAL SLIP

TO: (NAME, OFFICE, LOCATION)

1. LEE MARTIN

2. MS 4565

3. _____

4. _____

5. _____

PLEASE PREPARE REPLY FOR:

SECRETARY'S SIGNATURE

DIV/DIST DIR SIGNATURE

MY SIGNATURE

YOUR SIGNATURE

DUE DATE _____

ACTION/DISPOSITION

DISCUSS WITH ME

COMMENTS/ADVISE

REVIEW AND RETURN

SET UP MEETING

FOR YOUR INFORMATION

HANDLE APPROPRIATELY

INITIAL AND FORWARD

SHARE WITH STAFF

FOR YOUR FILES

COMMENTS:

LEE -

HERE'S ANOTHER SET OF
ASH MONITORING DATA FOR
YOUR FILES. SORRY ABOUT
THE DELAY IN SENDING
A COPY TO YOU.

JOL

FROM: JOHN MORRIS

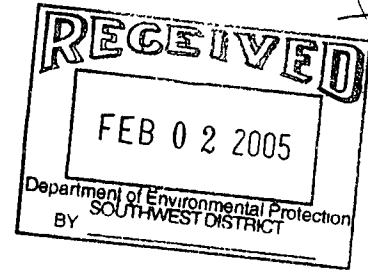
DATE: 3/17/05

PHONE: _____

Covanta Pasco, Inc
A Covanta Energy Company
14230 Hays Road
Spring Hill, FL 34610-7630
Tel 727 856 2917
Fax 727 856 0007

COVANTA
ENERGY

COPY TO
LEE MATTHEW
3/17/05



January 31, 2005

Mr Bob Butera, P E
Solid Waste Program
FDEP, Southwest District Office
3804 Coconut Palm Drive
Tampa, Florida 33619

***SUBJ: 2004 Ash Results
Pasco County Resource Recovery Facility***

Dear Mr Butera

Attached, please find the results of the quarterly ash sampling conducted at the Pasco County Resource Recovery Facility

Please contact Viet Ta, Facility Environmental at (727) 856-2917 if additional information is needed

Sincerely,

A handwritten signature in cursive script that reads "Joseph Miller".

Joseph Miller
Facility Manager

copy J Power, Pasco County
D Fontenot, Resource Recycling, LLC
K Stepsus
file

PASCO COUNTY RESOURCE RECOVERY FACILITY
 ASH ANALYSIS RESULTS
 2004 SUMMARY

Sampling Period	Composite Date	Sb (mg/kg)	As (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Hg (mg/kg)	Ni (mg/kg)	Se (mg/kg)	Ag (mg/kg)	Th (mg/kg)	Zn (mg/kg)
1st QTR	3/11/2004	98	55	1	105	66	1600	1490	0.78	42	1.2	8.7	10	8640
2nd QTR	6/27/2004	81	65	1	112	70	1040	1430	3.3	47	0.43	7.6	10	8620
3rd QTR	9/20/2004	91	68	1	121	76	1680	1470	7.5	59	1	8.4	10	8610
4th QTR	12/16/2004	20	67	1	163	77	1370	1670	4.9	53	0.74	8.2	10	11100

STATISTICAL RESULTS

Maximum	98	68	1	163	77	1680	1670	7.5	59	1.2	8.7	NA	11100
Minimum	20	55	1	105	66	1040	1430	0.78	42	0.43	7.6	NA	8610
Mean	72.5	63.75	1.00	125.25	72.25	1423	1515	4.12	50.3	0.8	8.23	NA	9243
Standard Deviation	35.7	5.97	0.00	26.00	5.19	287	106	2.82	7.4	0.3	0.46	NA	1238



Department of Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619-1352

INFORMATION REQUEST

TO Lee Martin, Division of Waste Management
Twin Towers Building Office
2600 Blair Stone
Tallahassee, FL 32399, 2400

We are pleased to send the enclosed information you requested

If we can be of further service, please contact

Danielle Sobczak
Solid Waste Section
Waste Management Division
3804 Coconut Palm Drive
Tampa, FL 33619-1352
PH: 813- 744-6100, ext. 374
FAX 813-744-6125
E-Mail: danielle sobczak@dep.state.fl.us

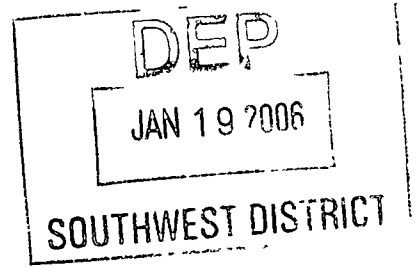
COMMENTS Please find the enclosed ash analysis

reports for McKay Bay, Ridge Generating,
Falkenburg WTE, and Pasco Co Resource
Recovery (note: Pasco Co. Resource Recovery
did not include lab results)

COWD 125668



Covanta Pasco, Inc
A Covanta Energy Company
14230 Hays Road
Spring Hill, FL 34610-7630
Tel 727 856 2917
Fax 727 856 0007



January 12, 2006

Mr Bob Butera, P E
Solid Waste Program
FDEP, Southwest District Office
3804 Coconut Palm Drive
Tampa, Florida 33619

***SUBJ: 2005 Ash Results
Pasco County Resource Recovery Facility***

Dear Mr Butera

Attached, please find the results of the quarterly ash sampling conducted at the Pasco County Resource Recovery Facility

Please contact Viet Ta, Facility Environmental at (727) 856-2917 if additional information is needed

Sincerely,

S H Bass
Facility Manager

copy J Power, Pasco County
D Fontenot, Resource Recycling, LLC
L Brasowski
file

PASCO COUNTY RESOURCE RECOVERY FACILITY
 ASH ANALYSIS RESULTS
 2005 SUMMARY

Sampling Period	Composite Date	Sb (mg/kg)	As (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Hg (mg/kg)	Ni (mg/kg)	Se (mg/kg)	Ag (mg/kg)	Th (mg/kg)	Zn (mg/kg)
1st QTR	5/19/2005	20	58	1	120	67	1660	3100	83	48	12	75	10	9060
2nd QTR	6/13/2005	170	33	0.34	65	49	1500	1700	33	24	22	76	2	4300
3rd QTR	9/7/2005	160	29	0.34	60	38	650	2100	34	24	19	41	17	4500
4th QTR	12/15/2005	160	51	0.38	130	60	2500	2300	38	61	25	89	22	10000

STATISTICAL RESULTS

Maximum	170	58	1	130	67	2500	3100	83	61	25	89	10	10000
Minimum	20	29	0.34	60	38	650	1700	326667	24	12	41	17	4300
Mean	127.5	42.75	0.52	93.75	53.50	1578	2300	469	39.3	20	7.03	3.98	6965
Standard Deviation	71.8	13.96	0.32	36.37	12.71	758	589	2.42	18.4	0.6	2.05	4.02	2988

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

JAN 19 2006

SOUTHWEST DISTRICT
 TAMPA



Covanta Pasco, Inc
A Covanta Energy Company
14230 Hays Road
Spring Hill, FL 34610-7630
Tel 727 856 2917
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Dept. of Environmental
Protection

JAN 30 2007

January 26, 2007

Ms Susan J Pelz, P E III
Solid Waste Program
FDEP, Southwest District Office
13051 N Telecom Pkwy
Temple Terrace, FL 33637-0926

Southwest District

***SUBJ: 2006 Ash Total Metal Results
Pasco County Resource Recovery Facility***

Dear Ms Pelz

Attached, please find the results of the quarterly ash sampling conducted at the Pasco County Resource Recovery Facility

Please contact Viet Ta, Facility Environmental Engineer at (727) 856-2917, ext 228 if additional information is needed

Sincerely,

S H Bass
General Manager

copy J Power, Pasco County
D Fontenot, Resource Recycling, LLC
L Brasowski
file

PASCO COUNTY RESOURCE RECOVERY FACILITY
 ASH ANALYSIS RESULTS
 2006 SUMMARY

Sampling Period	Composite Date	Sb (mg/kg)	As (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Hg (mg/kg)	Ni (mg/kg)	Se (mg/kg)	Ag (mg/kg)	Th (mg/kg)	Zn (mg/kg)
1st QTR	3/15/2006	120	33	0.36	93	78	1100	1700	2.6	49	4.2	7.2	3.8	9400
2nd QTR	6/15/2005	150	35	0.68	89	62	1700	790	1.6	45	4.4	13	3.9	5400
3rd QTR	9/7/2005	264	27.3	0.873	77.2	37	17000	1070	9.5	22.2	11.8	7.16	1.18	4690
4th QTR	12/21/2005	636	49	0.08	134	97.2	1060	3760	6.32	112	6.96	7.95	1.43	12300

STATISTICAL RESULTS

Maximum	636	49	0.873	134	97.2	17000	3760	9.49	112	11.8	13	3.9	12300
Minimum	120	27.3	0.08	77.2	37	1060	790	1.566667	22.2	4.2	7.16	1.18	4690
Mean	292.5	36.08	0.50	98.30	68.55	5215	1830	4.99	57.1	6.8	8.83	2.58	7948
Standard Deviation	237.3	9.21	0.35	24.73	25.48	7862	1342	3.63	38.5	3.5	2.81	1.47	3566

FLORIDA DEPARTMENT OF
 ENVIRONMENTAL PROTECTION
 JAN 50 2007
 SOUTHWEST DISTRICT
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Dept. of Environmental
Protection

AUG 14 2007

Southwest District

August 13, 2007

Ms Susan J Pelz, P E III
Solid Waste Program
FDEP, Southwest District Office
13051 N Telecom Pkwy
Temple Terrace, FL 33637-0926

***SUBJ: 2006 Ash Total Metal Results
Pasco County Resource Recovery Facility***

Dear Ms Pelz

A review of the report dated January 26, 2007 revealed that it contains incorrect Composite Dates Attached, please find revised report with correct dates

The ash analysis results and statistical results were correctly reported

Please contact me at (727) 856-2917, ext 228 if additional information is needed Thank you for your cooperation

Sincerely,



Viet Ta, Facility Environmental Engineer

copy file



PASCO COUNTY RESOURCE RECOVERY FACILITY
ASH ANALYSIS RESULTS
2006 SUMMARY

Sampling Period	Composite Date	Sb (mg/kg)	As (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Hg (mg/kg)	Ni (mg/kg)	Se (mg/kg)	Ag (mg/kg)	Th (mg/kg)	Zn (mg/kg)
1st QTR	3/15/2006	120	33	0.36	93	78	1100	1700	2.6	49	4.2	7.2	3.8	9400
2nd QTR	6/8/2006	150	35	0.68	89	62	1700	790	1.6	45	4.4	13	3.9	5400
3rd QTR	10/5/2006	264	27.3	0.873	77.2	37	17000	1070	9.5	22.2	11.8	7.16	1.18	4690
4th QTR	1/2/2007	636	49	0.08	134	97.2	1060	3760	6.32	112	6.96	7.95	1.43	12300

STATISTICAL RESULTS

Maximum	636	49	0.873	134	97.2	17000	3760	9.49	112	11.8	13	3.9	12300
Minimum	120	27.3	0.08	77.2	37	1060	790	1.566667	22.2	4.2	7.16	1.18	4690
Mean	292.5	36.08	0.50	98.30	68.55	5215	1830	4.99	57.1	6.8	8.83	2.58	7948
Standard Deviation	237.3	9.21	0.35	24.73	25.48	7862	1342	3.63	38.5	3.5	2.81	1.47	3566