

leachate file



PASCO COUNTY, FLORIDA

D.E.P.

DADE CITY (904) 521-4274
NEW PORT RICHEY (813) 847-8902

UTILITIES SERVICES BRANCH
PASCO COUNTY GOVT. COMPLEX
8864 GOVERNMENT DRIVE TAMPA
NEW PORT RICHEY, FL 34654

MAR 27 1995

March 23, 1995

sampled 1/10/95
* 1/31/95

Ms. Allison Amram
Florida Department of
Environmental Protection
3804 Coconut Palm Drive
Tampa, FL 33619

RE: Resource Recovery
Leachate Analysis

Dear Ms. Amram:

Enclosed please find analytical results for analysis conducted on the primary and secondary leachate from the ash cell and the solid waste cell at the Hays Road Resource Recovery site. Also included is the QA/QC data associated with this analysis. This completes the Quarter I 1995 monitoring requirement.

If you have any questions please feel free to contact me.

Sincerely,

Candia E. Mulhern
Laboratory Manager

CEM/dh

Enclosure

cc: Douglas S. Bramlett, Assistant County Administrator (Utilities Services)
Robert J. Sigmond, Utilities Fiscal Services/Special Projects Director



BROWARD TESTING LABORATORY, INC.

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



Potable Water Laboratory Certification Number BTL#2-86418

Environmental Laboratory Certification Number 86035

LABORATORY PARAMETER ANALYSIS REPORT

PROJECT: PASCO COUNTY UTILITIES

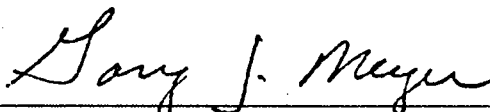
SOURCE: RESOURCE RECOVERY LEACHATE A-1 PRIMARY
LAB NUMBER: 973-0103
SAMPLED BY: CLIENT

SAMPLE DATE: 1-10-95
SAMPLE TIME:
COMPLETION DATE: 1-27-95

PARAMETER	METHOD	ANALYSIS RESULT	UNITS	DATE
LEAD	239.2	0.003	MG/L	1-11-95
PHENOLS	420.1	<1	MG/L	1-23-95

TOX WAS SUBCONTRACTED TO LAW ENVIRONMENTAL SEE ATTACHED REPORTS.

REVIEWED BY:


Gary J. Meyer, Laboratory Director



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LABORATORY PARAMETER ANALYSIS REPORT

PROJECT: PASCO COUNTY UTILITIES

SOURCE: RESOURCE RECOVERY LEACHATE A-1 SECONDARY SAMPLE DATE: 1-10-95
LAB NUMBER: 973-0102 SAMPLE TIME:
SAMPLED BY: CLIENT COMPLETION DATE: 1-27-95

PARAMETER	METHOD	ANALYSIS RESULT	UNITS	DATE
LEAD	239.2	0.001	MG/L	1-11-95
PHENOLS	420.1	3	MG/L	1-23-95

TOX WAS SUBCONTRACTED TO LAW ENVIRONMENTAL SEE ATTACHED REPORTS.

REVIEWED BY:

Gary J. Meyer

Gary J. Meyer, Laboratory Director



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

RESOURCE RECOVERY
 14230 HAYS ROAD
 SPRING HILL, FL 34610-
 Attn: VINCENT MANNELLA

PROJECT NAME: LEACHATE Q1 95
 DATE: 02/08/95
 DHRS # 54237, E44123

(Page 1 of 2)

LAB No.	SAMPLE		SAMPLER	DELIVERY TO LAB	
	DATE	TIME		DATE	TIME MATRIX
31952	01/10/95	1000	CHRIS CHILDRESS	01/10/95	1220 LE
31953	01/10/95	1020	CHRIS CHILDRESS	01/10/95	1220 LE

CLIENT STATION ID: RES. REC. A-1 P RES. REC. A-1 S
 PRIMARY SECONDARY
 LAB #: 31952 31953

	STD. UNITS	7.81	7.34
FIELD PH	DEGREES C	20.5	22.5
FIELD TEMPERATURE	umhos/cm	2726	10785
FIELD CONDUCTIVITY	mg/L	5.5	2.1
DISSOLVED OXYGEN, FIELD	mg/l	157	269
ALKALINITY, BICARB.	mg/L	22.6	34.1
TOT. ORGANIC CARBON	mg/L	3300	803
CHLORIDE	mg/L	7.63	<0.07
AMMONIA NITROGEN	mg/L	0.04	<0.02
UN-IONIZED AMMONIA N	mg/L	1.02	1.30
TOTAL ORGANIC N	mg/l	<0.10	<0.10
NITRATE/NITRITE	MG/L	8.65	1.30
TOTAL NITROGEN	mg/l	<3	<3
OIL AND GREASE	std units	7.98	8.36
PH, LAB	mg/L	<1	3
TOTAL PHENOLS	mg/L	11200	2300
TOTAL DISS. SOLIDS	umhos	10570	2920
SPEC. CONDUCTIVITY	mg/L	179	25.3
SULFATE	NTU	1.36	10.46
TURBIDITY			

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

RESOURCE RECOVERY
14230 HAYS ROAD
SPRING HILL, FL 34610-
Attn: VINCENT MANNELLA

PROJECT NAME: LEACHATE Q1 95
DATE: 02/08/95
DHRS # 54237, E44123

(Page 2 of 2)

LAB No.	SAMPLE		SAMPLER	DELIVERY TO LAB	
	DATE	TIME		DATE	TIME MATRIX
31952	01/10/95	1000	CHRIS CHILDRESS	01/10/95	1220 LE
31953	01/10/95	1020	CHRIS CHILDRESS	01/10/95	1220 LE

CLIENT STATION ID: RES. REC. A-1 P RES. REC. A-1 S
RIMARY ECONDARY
LAB #: 31952 31953

TOTAL ORGANIC HALIDES	mg/l	0.270	0.190
ANTIMONY, TOTAL	mg/L	0.0064	<0.001
ARSENIC, TOTAL	mg/L	0.0016	0.0021
BERYLLIUM, TOTAL	mg/L	<0.0005	<0.0005
CADMIUM, TOTAL	mg/L	<0.005	0.0076
CALCIUM, TOTAL	mg/L	1165	582
CHROMIUM, TOTAL	mg/L	<0.01	0.0324
COPPER, TOTAL	mg/L	0.07	0.05
IRON, TOTAL	mg/L	0.09	3.02
LEAD, TOTAL	mg/L	<0.001	0.0037
MAGNESIUM, TOTAL	mg/L	6.47	7.30
MANGANESE, TOTAL	mg/L	0.03	0.06
MERCURY, TOTAL	mg/L	0.002	0.0013
NICKEL, TOTAL	mg/L	0.098	0.07
SELENIUM, TOTAL	mg/L	<0.001	<0.001
SILVER, TOTAL	mg/L	0.0006	<0.0005
SODIUM, TOTAL	mg/L	762	199
THALLIUM, TOTAL	mg/L	<0.001	<0.001
ZINC, TOTAL	mg/L	0.02	0.04

LABORATORY DIRECTOR

A handwritten signature in black ink, appearing to read "Laurie E. Mulla", is written over a horizontal line.



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



Potable Water Laboratory Certification Number BTL#2-86418

Environmental Laboratory Certification Number 86035

LABORATORY PARAMETER ANALYSIS REPORT

PROJECT: PASCO COUNTY UTILITIES

SOURCE: RESOURCE RECOVERY SW LEACHATE TANK SW-1 PRIMARY TANK
LAB NUMBER: 974-0392
SAMPLED BY: CLIENT

SAMPLE DATE: 1-31-95
SAMPLE TIME:
COMPLETION DATE: 2-28-95

PARAMETER	METHOD	ANALYSIS RESULT	UNITS	DATE
PHENOLS	420.1	<1	MG/L	2-3-95
LEAD	239.2	0.014	MG/L	2-2-95

TOX WAS SUBCONTRACTED TO LAW ENVIRONMENTAL SEE ATTACHED REPORTS.

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



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Potable Water Laboratory Certification Number BTL#2-86418

Environmental Laboratory Certification Number 86035

LABORATORY PARAMETER ANALYSIS REPORT

PROJECT: PASCO COUNTY UTILITIES

SOURCE: RESOURCE RECOVERY SW LEACHATE TANK SW-1 SECONDARY TANK
LAB NUMBER: 974-0393
SAMPLED BY: CLIENT

SAMPLE DATE: 1-31-95
SAMPLE TIME:
COMPLETION DATE: 2-28-95

PARAMETER	METHOD	ANALYSIS RESULT	UNITS	DATE
PHENOLS	420.1	<1	MG/L	2-3-95
LEAD	239.2	<0.001	MG/L	2-2-95

TOX WAS SUBCONTRACTED TO LAW ENVIRONMENTAL SEE ATTACHED REPORTS.

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





PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

RESOURCE RECOVERY
14230 HAYS ROAD
SPRING HILL, FL 34610-
Attn: VINCENT MANNELLA

DATE: 03/23/95
DHRS # 54237, E44123

RES RECOVERY SOLID WASTE LEACHATE TANKS - QUARTER I 1995 (Page 1 of 2)

LAB No.	SAMPLE			DELIVERY TO LAB	
	DATE	TIME	SAMPLER	DATE	TIME MATRIX
32682	01/31/95	0945	CHRIS CHILDRESS	01/31/95	1630 LE
32683	01/31/95	1015	CHRIS CHILDRESS	01/31/95	1630 LE

CLIENT STATION ID: RR SW-1 PRIMARY RR SW-1 SECONDARY

LAB #: 32682 32683

FIELD PH	STD. UNITS	6.12	7.69
FIELD TEMPERATURE	DEGREES C	16.1	16.6
FIELD CONDUCTIVITY	umhos/cm	51655	736
DISSOLVED OXYGEN, FIELD	mg/L	0.8	4.9
ALKALINITY, BICARB.	mg/l	198	293
TOT. ORGANIC CARBON	mg/L	60.62	57.16
CHLORIDE	mg/L	23900	72.0
AMMONIA NITROGEN	mg/L	0.76	<0.07
UN-IONIZED AMMONIA N	mg/L	0.248	<0.02
TOTAL ORGANIC N	mg/L	22.2	0.88
NITRATE/NITRITE	mg/l	<0.10	<0.10
TOTAL NITROGEN	MG/L	23.2	0.88
OIL AND GREASE	mg/l	<3	<3
PH, LAB	std units	7.08	8.28
TOTAL PHENOLS	mg/L	<1	<1
TOTAL DISS. SOLIDS	mg/L	38000	518
SPEC. CONDUCTIVITY	umhos	35500	487
SULFATE	mg/L	245	6.3
TURBIDITY	NTU	132.0	7.47

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

RESOURCE RECOVERY
14230 HAYS ROAD
SPRING HILL, FL 34610-
Attn: VINCENT MANNELLA

DATE: 03/23/95
DHRS # 54237, E44123

RES RECOVERY SOLID WASTE LEACHATE TANKS - QUARTER I 1995 (Page 2 of 2)

LAB No.	SAMPLE			DELIVERY TO LAB	
	DATE	TIME	SAMPLER	DATE	TIME MATRIX
32682	01/31/95	0945	CHRIS CHILDRESS	01/31/95	1630 LE
32683	01/31/95	1015	CHRIS CHILDRESS	01/31/95	1630 LE

CLIENT STATION ID: RR SW-1 PRIMARY RR SW-1 SECONDARY

LAB #: 32682 32683

TOTAL ORGANIC HALIDES	mg/l	<0.05	<0.05
ANTIMONY, TOTAL	mg/L	<0.01	<0.001
ARSENIC, TOTAL	mg/L	<0.010	<0.001
BERYLLIUM, TOTAL	mg/L	<0.005	<0.0005
CADMIUM, TOTAL	mg/L	<0.0050	<0.0005
CALCIUM, TOTAL	mg/L	1.49	6.05
CHROMIUM, TOTAL	mg/L	0.089	<0.001
COPPER, TOTAL	mg/L	0.41	0.03
IRON, TOTAL	mg/L	0.16	0.16
LEAD, TOTAL	mg/L	<0.010	<0.001
MAGNESIUM, TOTAL	mg/L	7945	173
MANGANESE, TOTAL	mg/L	<0.1	<0.01
MERCURY, TOTAL	mg/L	0.0009	0.0012
NICKEL, TOTAL	mg/L	<0.7	<0.07
SELENIUM, TOTAL	mg/L	<0.010	<0.001
SILVER, TOTAL	mg/L	<0.005	<0.0005
SODIUM, TOTAL	mg/L	5670	20.7
THALLIUM, TOTAL	mg/L	<0.01	<0.001
ZINC, TOTAL	mg/L	0.23	0.02

LABORATORY DIRECTOR