



PASCO COUNTY, FLORIDA

DADE CITY (904) 521-4274
LAND O'LAKES (813) 996-7341
NEW PORT RICHEY (813) 847-8145

UTILITIES OPERATIONS AND
MAINTENANCE DEPARTMENT
PASCO COUNTY GOVT. COMPLEX
7536 STATE STREET
NEW PORT RICHEY, FL 34654

September 27, 1994

Ms. Cathy Anderson
Florida Department of
Environmental Protection
Solid Waste Section
Mail Station 4565
2600 Blair Stone Road
Tallahassee, FL 32399-2400

RE: Leachate Data

Dear Ms. Anderson:

Enclosed is the quarterly leachate data reports that you requested.

If I can be of further assistance, please do not hesitate to contact me at the above number.

Sincerely,


Vincent Mannella, P.E.
Solid Waste Facility Manager

VM/jmc

Enclosures

cc: Douglas S. Bramlett, Assistant County Administrator (Utilities Services)





PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

RESOURCE RECOVERY
14230 HAYS ROAD
SPRING HILL, FL 34610-
Attn: ROBERT TIETZ

DATE: 09/06/94
DHRS # 54237, E44123

LEACHATE MONITORING - QUARTER III 1994 (Page 1 of 1)

LAB No.	SAMPLE		SAMPLER	DELIVERY TO LAB	
	DATE	TIME		DATE	TIME MATRIX
26636	07/19/94	0915	CHRIS CHILDRESS	07/19/94	1630 LE
26637	07/19/94	0950	CHRIS CHILDRESS	07/19/94	1630 LE

CLIENT STATION ID: A-1 PRIMARY TAN A-1 SECONDARY T
K ANK

LAB #: 26636 26637

ALKALINITY, BICARB.	mg/l	144	282
TOT. ORGANIC CARBON	mg/L	104.10	34.12
CHLORIDE	mg/L	13785	757
DISSOLVED OXYGEN	mg/l	0.8	3.4
AMMONIA NITROGEN	mg/L	13.5	0.126
UN-IONIZED AMMONIA N	mg/L	0.359	<0.02
TOTAL ORGANIC N	mg/L	2.19	0.854
TOTAL NITROGEN	MG/L	16	1.18
OIL AND GREASE	mg/l	<3	<3
PH, FIELD	std. units	6.82	7.32
TEMPERATURE, FIELD	degrees C	28.8	28.9
SPECIFIC CONDUCTIVITY	umhos/cm	15291	2519
PH, LAB	std units	7.29	7.87
TOTAL DISS. SOLIDS	mg/L	37400	2330
SPEC. CONDUCTIVITY	umhos	37500	3030
SULFATE	mg/L	339	44.1
TURBIDITY	NTU	2.5	33

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

QC REPORT FOR RESOURCE RECOVERY 09/06/94

QA/QC for SAMPLE Nos: 26636, 26637,

Page 1

Analyte	LAB ID	Precision Data				Accuracy Data	Reference Sample Data			
		Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Reference Sample ID	Target	Found	% Recover
ALKALINITY BICARB. NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS										
EPA310.1 mg/l										
TOT. ORGANIC CARBON EPA 415.1 mg/L	26722					96.91	KHP	20.000	19.420	97.10
CHLORIDE EPA 325.3 mg/L	26609	991	930	61	6.35	-----	STD	20.0	20.3	101.50
	26666					96.40	-----	-----	-----	-----
DISSOLVED OXYGEN NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS										
SM 421F mg/l										
AMMONIA NITROGEN EPA350.1 mg/L	940720	9.80	9.80	0	0.00	98.00	STANDARD	10.0	9.80	98.00
						-----	STANDARD	10.0	9.80	98.00
UN-IONIZED AMMONIA N NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS										
EPA 350.1 mg/L										
TOTAL ORGANIC N CALC-351.3 mg/L	940720	9.80	9.80	0	0.00	98.00	STANDARD	10.0	9.80	98.00
						-----	STANDARD	10.0	9.80	98.00



PASCO COUNTY, FLORIDA

QC REPORT FOR RESOURCE RECOVERY 09/06/94

QA/QC for SAMPLE Nos: 26636, 26637,

Page 2

Analyte	LAB ID	Precision Data				Accuracy Data	Reference Sample Data			
		Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Reference Sample ID	Target	Found	% Recovery
TOTAL NITROGEN CALC. MG/L		NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS								
OIL AND GREASE EPA413.1 mg/l	9957	29.5	28.8	0.70	2.40	-----	9957	39.7	29.5	74.50
PH, FIELD EPA 159.1 std. units		NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS								
TEMPERATURE, FIELD SM 212 degrees C		NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS								
SPECIFIC CONDUCTIVITY SM 205 umhos/cm		NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS								
PH, LAB EPA150.1 std units		NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS								
TOTAL DISS. SOLIDS EPA160.1 mg/L	-----	-----	-----	-----	-----	-----	STD	293	292	99.50



PASCO COUNTY, FLORIDA

Poor Original

60 REPT FOR RESOURCE RECOVERY 09/06/94

QA/QC SAMPLE NOS. 26636, 26637,
Page 3

Analyte	LAB ID	Precision Data			Accuracy Data		Reference Sample Data		
		Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Ref. Base Sample ID	Target	Found

SPECIFIC CONDUCTIVITY
EPA 816
UMMS
NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS

SULFATE	26636	52.7	53.1	0.40	0.76	100%	STG	20.0	20.0	100%
SULFATE	26647	52.7	53.1	0.40	0.76	100%	STG	20.0	20.0	100%

mg/l

TOTAL CHLORIDE
EPA 817
NTU
NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS



PASCO COUNTY, FLORIDA

DATE, TIME, ANALYST REPORT

ANALYSIS	METHOD	ANALYSIS		ANALYST
		DATE	TIME	
BICARB. ALK	EPA310.1	07/21/94	1400	JK
CL-	EPA 325.3	07/21/94	1000	JK
COND	EPA120.1	07/19/94	1630	CSC
COND. FIELD	SM 205	07/19/94	0915	CC
DO	SM 421F	07/19/94	0915	CC
NH3	EPA350.1	07/20/94	1000	CEM
NH3-UNION	EPA 350.1	07/20/94	1000	CEM
O+G	EPA413.1	08/02/94	1200	TER
PH	EPA150.1	07/19/94	1630	CSC
PH, FIELD	EPA 150.1	07/19/94	0915	CC
SO4	EPA375.4	07/27/94	1000	JK
TDS	EPA160.1	07/27/94	1500	JK
TEMP. FIELD	SM 212	07/19/94	0915	CC
TN	CALC.	08/09/94	0730	CEM
TOC	EPA 415.1	07/25/94	0900	IF
TON	CALC-351.3	07/20/94	1000	CEM
TURB	EPA180.1	07/21/94	1300	CSC



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

RESOURCE RECOVERY
 14230 HAYS ROAD
 SPRING HILL, FL 34610-
 Attn: ROBERT TIETZ

DATE: 06/02/94
 DHRS # 54237, E44123

(Page 1 of 3)

SAMPLE				DELIVERY TO LAB	
LAB No.	DATE	TIME	SAMPLER	DATE	TIME MATRIX
23494	04/14/94	1045	CHRIS CHILDRESS	04/15/94	1610 LE
23495	04/14/94	1035	CHRIS CHILDRESS	04/15/94	1610 LE

CLIENT STATION ID: A-1 PRIMARY (RR A-1 SECONDARY (

))

LAB #: 23494 23495

WATER LEVEL	FEET	N/A	N/A
FIELD PH	STD. UNITS	7.39	7.01
FIELD TEMPERATURE	DEGREES C	26.14	25.13
FIELD CONDUCTIVITY	umhos/cm	3498	17383
DISSOLVED OXYGEN, FIELD	mg/L	3.28	1.72
ALKALINITY, BICARB.	mg/l	172	270
TOT. ORGANIC CARBON	mg/L	95.12	41.33
CHLORIDE	mg/L	6230	940
AMMONIA NITROGEN	mg/L	5.60	<0.07
UN-IONIZED AMMONIA N	mg/L	0.05	<0.02
TOTAL ORGANIC N	mg/L	1.68	0.98
NITRATE/NITRITE	mg/l	<0.10	<0.10
TOTAL NITROGEN	MG/L	7.28	0.98
OIL AND GREASE	mg/l	<3	<3
PH, LAB	std units	7.18	7.57
TOTAL PHENOLS	mg/L	<0.001	<0.001
TOTAL DISS. SOLIDS	mg/L	17000	3000
SPEC. CONDUCTIVITY	umhos	21100	4120
SULFATE	mg/L	206	27.2

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

RESOURCE RECOVERY
14230 HAYS ROAD
SPRING HILL, FL 34610-
Attn: ROBERT TIETZ

DATE: 06/02/94
DHRS # 54237, E44123

(Page 2 of 3)

LAB No.	SAMPLE		SAMPLER	DELIVERY TO LAB	
	DATE	TIME		DATE	TIME MATRIX
23494	04/14/94	1045	CHRIS CHILDRESS	04/15/94	1610 LE
23495	04/14/94	1035	CHRIS CHILDRESS	04/15/94	1610 LE

CLIENT STATION ID: A-1 PRIMARY (RR A-1 SECONDARY ()
LAB #: 23494 23495

TURBIDITY	NTU	1.1	2.1
TOTAL ORGANIC HALIDES	mg/l	0.250	0.200
ANTIMONY, TOTAL	mg/L	<0.005	<0.001
ARSENIC, TOTAL	mg/L	<0.005	<0.001
BERYLLIUM, TOTAL	mg/L	<0.002	<0.0005
CADMIUM, TOTAL	mg/L	<0.0005	<0.0005
CALCIUM, TOTAL	mg/L	4580	518
CHROMIUM, TOTAL	mg/L	<0.001	0.001
COPPER, TOTAL	mg/L	0.06	0.02
IRON, TOTAL	mg/L	0.21	0.22
LEAD, TOTAL	mg/L	<0.001	0.0034
MAGNESIUM, TOTAL	mg/L	7.60	9.10
MANGANESE, TOTAL	mg/L	0.06	<0.01
MERCURY, TOTAL	mg/L	<0.0005	<0.0005
NICKEL, TOTAL	mg/L	0.18	0.08
SELENIUM, TOTAL	mg/L	<0.001	<0.001
SILVER, TOTAL	mg/L	<0.0005	<0.0005
SODIUM, TOTAL	mg/L	1300	235
THALLIUM, TOTAL	mg/L	<0.001	<0.001

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

RESOURCE RECOVERY
 14230 HAYS ROAD
 SPRING HILL, FL 34610-
 Attn: ROBERT TIETZ

DATE: 02/18/94
 DHRS # 54237, E44123

RESOURCE RECOVERY ASH CELL - QI 1994 LEACHATE ANALYSIS (Page 1 of 2)

LAB No.	SAMPLE		SAMPLER	DELIVERY TO LAB	
	DATE	TIME		DATE	TIME MATRIX
20929	01/07/94	1130	CHRIS CHILDRESS	01/07/94	1600 LE
20930	01/07/94	1100	CHRIS CHILDRESS	01/07/94	1600 LE

CLIENT STATION ID: A-1 PRIMARY TAN A-1 SECONDARY T
 K ANK
 LAB #: 20929 20930

	STD. UNITS	6.01	7.68
FIELD PH	DEGREES C	21.72	19.17
FIELD TEMPERATURE	umhos/cm	32,800	3122
FIELD CONDUCTIVITY	mg/L	0.84	4.47
DISSOLVED OXYGEN, FIELD	mg/l	284	217
ALKALINITY, BICARB.	mg/L	37.11	85.23
TOT. ORGANIC CARBON	mg/L	15320	894
CHLORIDE	mg/L	20.2	0.18
AMMONIA NITROGEN	mg/L	5.34	<0.02
UN-IONIZED AMMONIA N	mg/L	2.30	0.90
TOTAL ORGANIC N	mg/l	<0.10	0.987
NITRATE/NITRITE	MG/L	22.50	2.07
TOTAL NITROGEN	mg/l	<3	<3
OIL AND GREASE	std units	7.29	8.35 ✓
PH, LAB	mg/L	<0.001 ✓	0.001 ✓
TOTAL PHENOLS	mg/L	46400 ✓	2730 ✓
TOTAL DISS. SOLIDS	umhos	27000	2140
SPEC. CONDUCTIVITY	mg/L	424	18.5
SULFATE	NTU	87	0.53
TURBIDITY			

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

RESOURCE RECOVERY
14230 HAYS ROAD
SPRING HILL, FL 34610-
Attn: ROBERT TIETZ

DATE: 02/18/94
DHRS # 54237, E44123

RESOURCE RECOVERY ASH CELL - QI 1994 LEACHATE ANALYSIS (Page 2 of 2)

LAB No.	SAMPLE			DELIVERY TO LAB	
	DATE	TIME	SAMPLER	DATE	TIME MATRIX
20929	01/07/94	1130	CHRIS CHILDRESS	01/07/94	1600 LE
20930	01/07/94	1100	CHRIS CHILDRESS	01/07/94	1600 LE

CLIENT STATION ID: A-1 PRIMARY TAN A-1 SECONDARY T
K ANK

LAB #: 20929 20930

TOTAL ORGANIC HALIDES	mg/l	0.580	0.280
ANTIMONY, TOTAL	mg/L	0.0062	<0.001
ARSENIC, TOTAL	mg/L	0.0033	<0.001
BERYLLIUM, TOTAL	mg/L	<0.0005	<0.0005
CADMIUM, TOTAL	mg/L	<0.0005	<0.0005
CALCIUM, TOTAL	mg/L	5830	414
CHROMIUM, TOTAL	mg/L	0.0011	<0.001
COPPER, TOTAL	mg/L	0.12	<0.02
IRON, TOTAL	mg/L	0.37	0.03
LEAD, TOTAL	mg/L	<0.001	0.0013
MAGNESIUM, TOTAL	mg/L	3.23	5.69
MANGANESE, TOTAL	mg/L	0.17	<0.01
MERCURY, TOTAL	mg/L	<0.0005	<0.0005
NICKEL, TOTAL	mg/L	0.27	<0.07
SELENIUM, TOTAL	mg/L	<0.001	<0.001
SILVER, TOTAL	mg/L	0.0005	<0.0005
SODIUM, TOTAL	mg/L	4010	191
THALLIUM, TOTAL	mg/L	0.001	<0.001
ZINC, TOTAL	mg/L	0.05	0.02

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

RESOURCE RECOVERY
14230 HAYS ROAD
SPRING HILL, FL 34610-
Attn: ROBERT TIETZ

DATE: 01/10/94
DHRS # 54237, E44123

(Page 1 of 3)

LAB No.	SAMPLE			DELIVERY TO LAB	
	DATE	TIME	SAMPLER	DATE	TIME MATRIX
18595	10/11/93	1230	CHRIS CHILDRESS	10/11/93	1500 LE
18596	10/11/93	1255	CHRIS CHILDRESS	10/11/93	1500 LE

CLIENT STATION ID:	A-1 PRIMARY	A-1 SECONDARY
LAB #:	18595	18596

WATER LEVEL	FEET	N/A	N/A
FIELD PH	STD. UNITS	6.22	7.48
FIELD TEMPERATURE	DEGREES C	29.83	28.97
FIELD CONDUCTIVITY	umhos/cm	92440	3263
DISSOLVED OXYGEN, FIELD	mg/L	0.14	3.01
TOTAL CHLORINE RESIDUAL, FIELD	mg/L	N/A	N/A
ALKALINITY, BICARB.	mg/l	287	233
TOT. ORGANIC CARBON	mg/L	135.6	88.6
CHLORIDE	mg/L	43400	933
AMMONIA NITROGEN	mg/L	42.1	0.10
UN-IONIZED AMMONIA N	mg/L	3.96	<0.02
TOTAL ORGANIC N	mg/L	3.80	1.23
NITRATE/NITRITE	mg/l	<0.10	0.701
TOTAL NITROGEN	MG/L	49.9	2.03
OIL AND GREASE	mg/l	<3	<3
PH, LAB	std units	7.14 ✓	8.12 ✓
TOTAL PHENOLS	mg/L	0.24	0.005
TOTAL DISS. SOLIDS	mg/L	87000	2720
SPEC. CONDUCTIVITY	umhos	70000	2420

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

RESOURCE RECOVERY
14230 HAYS ROAD
SPRING HILL, FL 34610-
Attn: ROBERT TIETZ

DATE: 01/10/94
DHRS # 54237, E44123

(Page 2 of 3)

LAB No.	SAMPLE		SAMPLER	DELIVERY TO LAB	
	DATE	TIME		DATE	TIME MATRIX
18595	10/11/93	1230	CHRIS CHILDRESS	10/11/93	1500 LE
18596	10/11/93	1255	CHRIS CHILDRESS	10/11/93	1500 LE

CLIENT STATION ID:	A-1 PRIMARY	A-1 SECONDARY
LAB #:	18595	18596

SULFATE	mg/L	189.0	20.7
TURBIDITY	NTU	54.0	1.27
TOTAL ORGANIC HALIDES	mg/l	0.400	0.280
ANTIMONY, TOTAL	mg/L	<0.01	<0.001
ARSENIC, TOTAL	mg/L	<0.01	<0.001
BERYLLIUM, TOTAL	mg/L	<0.005	<0.0005
CADMIUM, TOTAL	mg/L	<0.005	<0.0005
CALCIUM, TOTAL	mg/L	10280	432
CHROMIUM, TOTAL	mg/L	<0.001	<0.001
COPPER, TOTAL	mg/L	0.25	0.03
IRON, TOTAL	mg/L	1.09	0.24
LEAD, TOTAL	mg/L	<0.01	0.0011
MAGNESIUM, TOTAL	mg/L	2.65	4.94
MANGANESE, TOTAL	mg/L	0.40	0.06
MERCURY, TOTAL	mg/L	0.00088	0.00051
NICKEL, TOTAL	mg/L	0.75	<0.07
SELENIUM, TOTAL	mg/L	<0.01	<0.001
SILVER, TOTAL	mg/L	<0.005	<0.0005
SODIUM, TOTAL	mg/L	8880	208

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

RESOURCE RECOVERY
14230 HAYS ROAD
SPRING HILL, FL 34610-
Attn: ROBERT TIETZ

DATE: 01/10/94
DHRS # 54237, E44123

(Page 3 of 3)

LAB No.	SAMPLE		SAMPLER	DELIVERY TO LAB	
	DATE	TIME		DATE	TIME MATRIX
18595	10/11/93	1230	CHRIS CHILDRESS	10/11/93	1500 LE
18596	10/11/93	1255	CHRIS CHILDRESS	10/11/93	1500 LE

CLIENT STATION ID:	A-1 PRIMARY	A-1 SECONDARY
LAB #:	18595	18596

THALLIUM, TOTAL	mg/L	<0.01	<0.001
ZINC, TOTAL	mg/L	0.18	0.02

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

RESOURCE RECOVERY
HAYS ROAD
HUDSON, FL 34674-

DATE: 06/14/93
DHRS # 54237, E44123

Attn: ROBERT SIGMOND

(Page 1 of 2)

Lab #:	Collection Date:	Collection Time:	Sample Collector:
14044	04/06/93	1130	CHRIS CHILDRESS
14045	04/06/93	1200	CHRIS CHILDRESS

CLIENT STATION ID:	A-1 PRIMARY	A-1 SECONDARY
LAB #:	14044	14045

ALKALINITY, BICARB.	mg/l	180	274
TOT. ORGANIC CARBON	mg/L	47.53	31.16
CHLORIDE	mg/L	23430	578
AMMONIA NITROGEN	mg/L	25.2	0.406
UN-IONIZED AMMONIA N	mg/L	3	<0.02
TOTAL ORGANIC N	mg/L	2.02	1.35
NITRATE/NITRITE	mg/l	<0.10	0.79
TOTAL NITROGEN	MG/L	30.2	2.55
OIL AND GREASE	mg/l	<3	<3
PH, LAB	std units	7.19	8.07
TOTAL PHENOLS	mg/L	<0.001	<0.001
TOTAL DISS. SOLIDS	mg/L	30600	1630
SPEC. CONDUCTIVITY	umhos	44700	1550
SULFATE	mg/L	228.4	13.9
TURBIDITY	NTU	91.0	15.02
TOTAL ORGANIC HALIDES	mg/l	0.880	0.150
ANTIMONY, TOTAL	mg/L	0.0019	<0.001
ARSENIC, TOTAL	mg/L	0.0017	<0.001
BERYLLIUM, TOTAL	mg/L	<0.001	<0.0005
CADMIUM, TOTAL	mg/L	<0.0005	0.001

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

RESOURCE RECOVERY
HAYS ROAD
HUDSON, FL 34674-

DATE: 06/14/93
DHRS # 54237, E44123

Attn: ROBERT SIGMOND

(Page 2 of 2)

Lab #:	Collection Date:	Collection Time:	Sample Collector:
14044	04/06/93	1130	CHRIS CHILDRESS
14045	04/06/93	1200	CHRIS CHILDRESS

CLIENT STATION ID:	A-1 PRIMARY	A-1 SECONDARY
LAB #:	14044	14045

CALCIUM, TOTAL	mg/L	9020	529
CHROMIUM, TOTAL	mg/L	0.001	0.0022
COPPER, TOTAL	mg/L	0.18	<0.02
IRON, TOTAL	mg/L	0.88	1.41
LEAD, TOTAL	mg/L	0.016	0.0132
MAGNESIUM, TOTAL	mg/L	3.86	4.82
MANGANESE, TOTAL	mg/L	0.29	0.13
MERCURY, TOTAL	mg/L	<0.0005	<0.0005
NICKEL, TOTAL	mg/L	0.46	<0.07
SELENIUM, TOTAL	mg/L	<0.001	<0.001
SILVER, TOTAL	mg/L	<0.0005	<0.0005
SODIUM, TOTAL	mg/L	16100	137
THALLIUM, TOTAL	mg/L	<0.004	<0.001
ZINC, TOTAL	mg/L	0.13	0.09

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

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

ENVIRONMENTAL LABORATORY
PASCO COUNTY GOVT. COMPLEX
8834 GOVERNMENT DRIVE
NEW PORT RICHEY, FL 34654

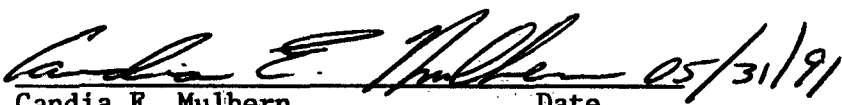
UTILITIES ENVIRONMENTAL LABORATORY

DHRS Lab Nos.: 54237
E44123

Project: Leachate Analysis
Sample Site: Resource Recovery - SW-1
Sample Date: 04/03/91
Sampled By: Candia E. Mulhern

	<u>Primary Tank</u>	<u>Secondary Tank</u>
pH (std. units)	7.56	7.37
Temperature (°C)	22.8	22.8
Conductivity (µmhos/cm)	311	678
Silver (mg/L)	<0.0001	0.0003
Arsenic (mg/L)	0.003	<0.003
Beryllium (mg/L)	<0.05	<0.05
Cadmium (mg/L)	0.0003	<0.0001
Chromium (mg/L)	0.0013	0.0035
Copper (mg/L)	<0.01	<0.01
Mercury (mg/L)	<0.0005	<0.0005
Nickel (mg/L)	0.0047	0.0046
Lead (mg/L)	<0.0005	<0.0005
Antimony (mg/L)	0.0066	0.012
Selenium (mg/L)	<0.002	<0.002
Thallium (mg/L)	0.0018	<0.001
Zinc (mg/L)	0.06	<0.03
Calcium (mg/L)	28.4	87.6
Manganese (mg/L)	0.0022	0.0010

	<u>Primary Tank</u>	<u>Secondary Tank</u>
Magnesium (mg/L)	4.02	2.89
Sodium (mg/L)	12.3	5.92
Iron (mg/L)	<0.10	<0.10
TDS (mg/L)	205	421
Chloride (mg/L)	8.0	7.0
Sulfate (mg/L)	20.4	16.1
Bicarbonate (mg/L)	125	362
Turbidity (NTU)	6.88	1.97
TOC (mg/L)	18.6	17.2
Oil and Grease (mg/L)	<3	<3
Ammonia (mg/L)	0.14	0.07
Un-Ionized Ammonia (mg/L)	<0.02	<0.02
Nitrate + Nitrite (mg/L)	0.40	183
Organic Nitrogen (mg/L)	1.40	0.70
Total Nitrogen (mg/L)	1.80	183.77
Phenols (mg/L)	0.020	0.006
TOX (mg/L)	0.02	<0.01


 Candia E. Mulhern Date 05/31/91
 Laboratory Supervisor

CEM/r052808:wp