Resource Recovery Corp.
TDD R10-8410-06

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ecology and environment, inc.

108 SOUTH WASHINGTON, SUITE 302, SEATTLE, WASHINGTON 98104, TEL. 206-624-9537

International Specialists in the Environmental Sciences

MEMORANDUM

DATE: November 7, 1984

TO: John Osborn, FIT RPO
EPA, Region X

THRU: Dave Buecker, FIT RPM
E&E, Seattle

FROM: Jim Farr, Senior Chemist
E&E, Seattle

SUBJ: QA of Sample Results for Case 3206

I have finished my review of data for Case 3206. Chemtech analyzed three water samples for inorganics. I believe the data to be acceptable except for the following comment:

Duplicate data for arsenic, copper, and nickel gave high RPD's. I have starred all results on the data sheets that are associated with the duplicate. The starred values (*) suggest a larger imprecision for measuring that particular element. The imprecision would suggest error of ±44% for arsenic, ±46% for copper, and ±24% for nickel.

Otherwise all results are as reported. Please call me if you have questions.

CC: Peter Evers
JF:pc
attachment

recycled paper

USEPA SF
1371150

E&E Sample Data

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MJ 9043

Date 10-24-84

INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CASE NO. 3206

LAB SAMPLE ID. NO. G2-322-01 QC REPORT NO. 322

Elements Identified and Measured

Matrix Low Water

ug/L or mg/kg (Circle One)

1.	Aluminum	102000	13.	Magnesium	NR
2.	Antimony	~~<20~~ 20 u	14.	Manganese	4380
3.	Arsenic	39*	15.	Mercury	~~<0.2~~ 0.2u
4.	Barium	1631	16.	Nickel	162*
5.	Beryllium	7	17.	Potassium	NR
6.	Cadmium	~~0.1bm~~ 1.9	18.	Selenium	2
7.	Calcium	NR	19.	Silver	~~<10~~ 10u
8.	Chromium	106	20.	Sodium	NR
9.	Cobalt	170	21.	Thallium	<10 10u
10.	Copper	280*	22.	Tin	~~<20~~ 20u
11.	Iron	199900	23.	Vanadium	302
12.	Lead	160	24.	Zinc	514
Cyanide		~~<10~~ 10u	Percent Solids		NR

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: JS 11/6/84

Lab Manager E. Hedrick

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U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MS 9044

Date 10-24-81

INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CASE NO. 3206

LAB SAMPLE ID. NO. G2-322-02 QC REPORT NO. 322

Elements Identified and Measured

Matrix Low Water

ug/L or mg/kg (Circle One)

1.	Aluminum	203	13.	Magnesium	NR
2.	Antimony	<20 20u	14.	Manganese	<10 10u
3.	Arsenic	<10 10u	15.	Mercury	<0.2 0.2u
4.	Barium	<100 100u	16.	Nickel	<40 40u
5.	Beryllium	<5 5u	17.	Potassium	NR
6.	Cadmium	<1 1u	18.	Selenium	<2 2u
7.	Calcium	NR	19.	Silver	<10 10u
8.	Chromium	<10 10u	20.	Sodium	NR
9.	Cobalt	<50 50u	21.	Thallium	<10 10u
10.	Copper	<50 50u	22.	Tin	<20 20u
11.	Iron	163	23.	Vanadium	<200 200u
12.	Lead	<5 5u	24.	Zinc	<10 10u
Cyanide		<10 10u	Percent Solids		NR

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager E. Hedva

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. MJ 9045

Date 10-24-84

INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CASE NO. 3206

LAB SAMPLE ID. NO. 62-322-03 QC REPORT NO. 322

Elements Identified and Measured

Matrix Low Water

ug/L or mg/kg (Circle One)

1.	Aluminum	41500	13.	Magnesium	NR
2.	Antimony	<20 20u	14.	Manganese	1694
3.	Arsenic	28*	15.	Mercury	<0.2 0.2u
4.	Barium	785	16.	Nickel	63*
5.	Beryllium	<5 5u	17.	Potassium	NR
6.	Cadmium	<1 1u	18.	Selenium	2
7.	Calcium	NR	19.	Silver	<10 10u
8.	Chromium	42	20.	Sodium	NR
9.	Cobalt	<50 50u	21.	Thallium	<10 10u
10.	Copper	120*	22.	Tin	<20 20u
11.	Iron	97450	23.	Vanadium	<200 200u
12.	Lead	70	24.	Zinc	207
Cyanide		<10 10u	Percent Solids		NR

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Comments:

Lab Manager E. Hedrd

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