February 18, 1993

Manifest Discrepancies
SJOB Plating - US EPA Region 9

1. Manifest Document No. 90029 Dated 01/27/93

   a) The profile for Item 11.c. was switched with item 28.c.

   b) Item 11.d. RQ Hazardous Waste Solid NOS:

      The presence of cyanide and waste code D003 was not identified on 3 of the 4 drums.

   c) Item 28.b. Non Hazardous Waste Solid:

      The presence of cyanide and waste code D003 was not identified.

   d) Item 28.d. RQ Hazardous Waste Solid NOS:

      Waste code D007 for Chrome was not indicated.

   e) Item 28.e. RQ Hazardous Solid NOS:

      This was one drum which was not previously profiled or accepted by ETICAM for shipment. Applicable waste codes were not noted. A profile was produced, and the waste determined to be acceptable for receipt.

2. Manifest Document No. 90030 Dated 1/27/93

   a) Item number 11.b. Non-Hazardous Waste Liquid:

      Chrome content above the TCLP limit of 5.0 mg/l was found in 5 out of the 7 drums. These same 5 drums also showed an average cyanide concentration of 204.5 total and 89.2 amenable.

CET Environmental
Services, Inc.

9706 4th Avenue N.E., Suite 101
Seattle, Washington 98115
Telephone: (206) 525-9168
Toll Free: (800) 753-9163
Fax: (206) 525-9521

December 16, 1992

Mr. Donald Newman
ETICAM
2095 Newlands Drive
Fernley, Nevada 89401

Subject: Contract No. S-92-SC-006

Dear Mr. Newman,

Enclosed is Task Order Number 005 under subject contract. Please acknowledge receipt and acceptance and return one copy to the undersigned.

Sincerely,

G. Brad Coury
Zone Program Manager

GBC/ln

Enclosure

Post-it™ brand fax transmittal memo 7671	# of pages ▸ 5
To DON Newman	From BRAD COURY
Co.	Co.
Dept	Phone #
Fax #	Fax #

TASK ORDER NUMBER 005
ETICAM

This Task Order 005 is issued in accordance with the Subcontractor Number S-92-SC-006 dated February 24, 1992, the terms and conditions of which are hereby incorporated by reference, and shall govern this Task Order.

Issued to:
ETICAM
2095 Newlands Drive
Fernley, Nevada 89401
Attn: Donald Newman

Issued by:
CET Environmental Services, Inc.
9706 4th Avenue Northeast, Suite 101
Seattle, Washington 98115

Issue Date: December 16, 1992

A. Task Title: SJOB Plating Waste Treatment/Disposal

Response Manager: Mike Taylor

Project Administrative Specialist: Shawn Craven

Project No./Account No.: 9001-022

B. Scope of Work and Submittals Required (see attached continuation page)

C. Schedule - Contractor on Site: Required Work Completion Date:

Time of Order:

D. Estimated Manhours: N/A

Estimated Equipment: N/A

E. Not-to-Exceed Cost for Task: $21,080.00

F. Special Provisions:

G. Profile No.:

Approved by: _____ Date: _____

Authorized by: _____ Acknowledged by: _____

CET Environmental Services, Inc.

_____ _____
Signature Signature

G. Brad Coury _____
Name Name

Zone Program Manager _____
Title Title

December 16, 1992 _____
Date Date

Task Order Continuation:

CET Environmental Services, Inc. (CET) will require that the following services be performed by ETICAM as directed by the CET Response Manager.

Scope of Work:

Provide transportation and disposal services off-site for the waste streams identified in the schedule of pricing. Please note; CET does not guarantee a minimum or maximum quantity of material that will be disposed of off-site.

Location:

The waste was generated from the USEPA, Region 9, Superfund site SJOB Plating. The site is located at SJOB Plating, 612 Martin Luther King Blvd, Las Vegas, Nevada.

General Description of Requirements:

ETICAM understands that rigid compliance with all applicable local, state and federal rules and regulations and industry standards concerning the transportation of contaminated materials is mandatory. The requirements of this subcontract agreement shall include the following:

1. All work shall be performed in accordance with the Service Contract of 1965, as amended;

2. All drivers shall be paid in accordance with the Service Contract Act, Department of Labor Wage Determination, Number 82-0069 (Revision 8);

3. All drivers shall be Department of Transportation qualified with current licenses and physicals;

4. All drivers shall be OSHA trained in compliance with current regulations;

5. In order to be allowed access to the disposal facility, all drivers shall be clean shaven;

6. All loads shall meet state highway regulations for weight in the states as appropriate;

7. All transportation shall be performed in accordance with 49 CFR, Parts 78 through 215, and 40 CFR, Parts 261 through 265;

8. ETICAM shall provide written notification to CET of the transportation routes to be used prior to the issuance of the Notice to Proceed.

9. CET shall be provided with a copy of offeror's Certificate of Insurance prior to the issuance of the Notice to Proceed.

10. ETICAM shall provide written documentation detailing the handling of all waste streams and treatment residues.

Schedule of Pricing:

The following is a cost breakdown for the off-site transportation and disposal of the material per ETICAM quote of December 2, 1992. Demurrage at the facility and at the SJOB Plating site will include the first 2 hours at no charge. Additional hours will be billed at $65/hour.

Item	Quantity	Description	Unit Price	Total
1	7 Drums	Non Flammable Liquids Profile Fee Transportation	$300/drum N/C $40/drum	$ 2,100.00 $ 280.00
2	1 Drum	Acid Oxidizing Solids Profile Fee Transportation	$300/drum N/C $40/drum	$ 300.00 $ 40.00
3	1 Drum	A26 Profile Fee Transportation	$300/drum N/C $40/drum	$ 300.00 $ 40.00
4	2 Drums	NCS-Low Profile Fee Transportation	$300/drum N/C $40/drum	$ 600.00 $ 80.00
5	1 Drum	A88 Profile Fee Transportation	$300/drum N/C $40/drum	$ 300.00 $ 40.00
6	2 Drums	BOL Profile Fee Transportation	$300/drum N/C $40/drum	$ 600.00 $ 80.00
7	4 Drums	NCS-High Profile Fee Transportation	$300/drum N/C $40/drum	$ 1,200.00 $ 160.00
8	9 Drums	Base Liquids Profile Fee Transportation	$300/drum N/C $40/drum	$ 2,700.00 $ 360.00
9	35 Drums	Acid Oxidizing Liquids Profile Fee Transportation	$300/drum N/C $40/drum	$10,500.00 $ 1,400.00
Total Estimated Price				$21,080.00

ANRESCO
INCORPORATED
ANALYSIS RESEARCH

Tel: (415) 822-1100 Fax: (415) 822-6615
790 Basin Street, #2, San Pedro, CA 90731
Tel: (310) 833-4598 Fax: (310) 833-1585
Toll Free - 800-359-0920

07 November 1992

CET Environmental Services
9706 4th Ave., NE, Suite 101
Seattle, WA. 98115

File No. 1092384

Re: Fifteen samples for analysis: Project Name: SJOB
Job #9001-029 Chain of Custody: 9 12817

(PO # 51272)

Received: 10/29/92

RESULTS

Total Organic Carbon :

Estimate of T.O.C.* using gravimetric analysis for a soil sample:

Calculation:

% T.O.C. = 100 - Moisture - ash

Results:

NCS - Hi	Moisture :	22.02 %
	Ash :	60.98 %
	Estimated T.O.C. :	17.00 %

*T.O.C. is Total Organic Carbon

Oil & Grease (SW-846-9070)

Results:

NFL	Sample:	38.3 %
	Duplicate:	39.3 %

(Continued ...)

File No. 1092384

RCRA Total Metals (EPA 3050 digest)

mg/kg (ppm)

	Cr	Ba	Cu	Pb	Cd	Ni	Ag	Cr^{+6}
CNL	102	ND	12,800	34.7	3080	83.0	27.5	ND
AOL	17,300	ND	16,600	26.9	90.9	5,520	ND	230
BOL	122	ND	300	15.4	3.85	36.1	ND	7.8
BL	67.6	ND	300	18.8	2.91	58.6	ND	ND
NCL.HI	1,120	ND	259	26.9	2.92	3,280	ND	25.2

IV. TCLP EXTRACTS:

mg/L (ppm)

	Cr	Ba	Cu	Pb	Cd	Ni	Ag	Cr^{+6}
CNS	10.8	ND	12,400	3.7	36	49.3	400	0.13
AOS	3.5	ND	742	4.3	6.3	45.8	ND	ND
BS	145	ND	61.5	2.5	ND	24.3	ND	3.9
NCL-Lo	ND	ND	52.8	2.4	ND	17.9	ND	ND
NCS-Hi	0.65	ND	58.9	2.5	0.60	224	ND	ND
NCS-Lo	0.10	ND	56.8	2.4	ND	5.8	ND	51.6
NCS-Soil	22.4	ND	49.7	2.2	ND	5.1	ND	1.7
NFL	1.1	ND	53.3	2.6	ND	5.6	ND	ND
A26	4.3	ND	45.9	2.9	ND	16.7	ND	ND
A88	8,960	ND	61.0	4.4	0.40	5.5	ND	5,200
Detection Limit:	0.05	5	0.05	0.10	0.01	1.0	0.1	0.05

% Spike Recovery

	Cr	Ba	Cu	Pb	Cd	Ni	Ag	Cr^{+6}
Spike	85	85	95	95	93	92	85	80%
Spike Dup.	85	87	95	95	94	90	85	80%

Methods:

Chromium (total) 7190, (hexavalent) 7195
Barium 7080
Lead 7420
Nickel 7520
Copper 7210
Cadmium 7130
Silver 7760

(Continued...)

RCRA Total Metals (EPA 3050 digest)

Arsenic - EPA 7061

	mg/kg (ppm)
CNL	ND*
AOL	1.69
BOL	0.468
BL	0.492
NCL-Hi	0.492
Blank	ND*

*Minimum Detection Limit is ca. 0.10 ppm

Note: Matrix Spike and matrix spike duplicate results are with TCLP results.

TCLP Extracts

Arsenic - EPA 7061

	mg/L (ppm)
CNS	0.247
AOS	0.022
BS	0.104
NCL-Lo	0.004
NCS-Hi	ND*
NCS-Lo	0.003
NCS-Soil	0.004
NFL	ND*
A26	ND*
A88	ND*
Blank	ND*
Spike 0.05 ppm (NFL)	0.046 91.4% recovery
spike duplicate	0.049 98.0% recovery

*Minimum Detection Limit is ca. 0.002 ppm (2 ppb)

(Continued...)

RCRA Total Metals (EPA 3050 digest)

Selenium - EPA 7741

	mg/kg (ppm)
CNL	0.723
AOL	ND*
BOL	0.250
BL	0.375
NCL-Hi	0.643
Blank	ND*

*Minimum Detection Limit is ca. 0.25 ppm

Note: Matrix Spike and matrix spike duplicate results are with TCLP results.

TCLP Extracts

Selenium ~~Arsenic~~ - EPA 7741

	mg/L (ppm)
CNS	0.009
AOS	0.045
BS	0.006
NCL-Lo	0.007
NCS-Hi	0.008
NCS-Lo	0.041
NCS-Soil	0.012
NFL	0.006
A26	0.025
A88	ND*
Blank	ND*
Spike 0.10 ppm (NFL)	0.071 65% recovery
spike duplicate	0.090 84% recovery

*Minimum Detection Limit is ca. 0.005 ppm (5 ppb)

(Continued...)

RCRA Total Metals (EPA 3050 digest)

Mercury - EPA 7470

	mg/kg (ppm)
CNL	ND*
AOL	ND*
BOL	0.27
BL	ND
NCL-Hi	ND
Blank	ND*

*Minimum Detection Limit is ca. 0.25 ppm

Note: Matrix Spike and matrix spike duplicate results are with TCLP results.

TCLP Extracts

Mercury - EPA 7470

	mg/L (ppm)
CNS	0.005
AOS	ND*
BS	0.030
NCL-Lo	0.010
NCS-Hi	0.007
NCS-Lo	0.010
NCS-Soil	0.010
NFL	ND*
A26	0.006
A88	ND*
Blank	ND*
Spike 0.1 ppm (NFL)	0.121 121% recovery
spike duplicate	0.189 94.5% recovery

*Minimum Detection Limit is ca. 0.005 ppm (5 ppb)

(Continued..)

File No. 1092384

Total Organic Halides

EPA 9020 (modified)

Narrative: Oily waste sample "NFL" was diluted 1:10 with 1 + 1 petroleum ether: isopropylalcohol and direct injected into a Dohrmann DX-20A Total Halides Analyzer.

	Chlorides ppm (mg/kg)
NFL	142
Duplicate	134
	ave. 138 RPD 5.80
Blank (solvent)	ND*
Organic Control (T.C.P) expected 1178 ng/mcL	1.09, 1.11 mcg/mcL 100%
Inorganic Standard (into cell) expected 1104 ng/mcL	1.08, 1.06 mcg/mcL 90.7%

*Minimum Detection Limit is ca. 2.0 ppm

Total & Amendable Cyanide (EPA 9010)

mg/kg (ppm)

	Total	Amendable
CNL	4.13%*	4.12%*
>CNS	5.20%*	5.19%*
NCL-Hi	18.7	18.7
NCL-Lo	11.7	7.9

Spike (NCL-Lo) (124 ppm) 145
108% recovery

Spike duplicate (12.4 ppm) 27.2
125% recovery

Minimum Detection Limit is ca. 0.5 ppm

* 10,000 ppm = 1.0%

(Continued...)

File No. 1092384

Phenolics - (EPA 9065) - equivalent to NPDES 420.1

	mg/kg (ppm)
NFL	26.4
duplicate	9.9
(waste is non-uniform)	
blank	ND (M.D.L. ca. 0.8 ppm)

Spike recovery @ 7.8 ppm = 87%

Normality via aqueous direct titration -

	eq/L base	eq/L acid
AOL	-	5.55
BOL	0.796	-
BL	3.08	-

eq/L = equivalent per liter, i.e. normality

Reported by:
ANRESCO, INC.

E. Jerry Oliveras
Associate Lab Director

EJO/ms: G-1092384

C O N F I D E N T I A L BUSINESS INFORMATION REMOVED

STICAM

Manifest F-LOG: (92)-(277)-(01)

ETICAM

2095 Newlands Drive East, Fernley, Nevada 89408
1-800-648-9931

GENERATOR'S WASTE MATERIAL PROFILE SHEET

PROFILE NUMBER
LOG #
DATE RECEIVED IN LAB

A. GENERAL INFORMATION

GENERATOR NAME: U.S. EPA - REGION 9 / SSOB PLATING
FACILITY ADDRESS: 612 MARTIN LUTHER KING BLVD. LAS VEGAS, NV

TRANSPORTER:
TRANSPORTER PHONE:
GENERATOR USEPA I.D. NVD982488793
GENERATOR STATE I.D.

TECHNICAL CONTACT: JEFF WEBB TITLE
NAME OF WASTE: BASE LIQUIDS PHONE (206) 525-9168
PROCESS GENERATING WASTE: SUPERFUND CLEAN-UP @ METAL PLATING SHOP

CUSTOMER NAME: CET ENVIRONMENTAL
ADDRESS: 9706 4TH NE, SUITE 101 SEATTLE, WA 98115

B. PHYSICAL CHARACTERISTICS OF WASTE

COLOR: VARIES

VISCOSITY: ☐ HIGH ☒ MEDIUM ☐ LOW

ODOR: ☐ NONE ☐ MILD ☒ STRONG DESCRIBE CAUSTIC

PHYSICAL STATE AT 70° F: ☐ SOLID ☒ SEMI-SOLID ☒ LIQUID ☐ POWER

LAYERS: ☒ MULTIBAVERED ☐ BILATERED ☐ SINGLE-PHASED

FREE LIQUIDS ☒ YES ☐ NO VOLUME 90-100 %

pH: ☐ < 2 ☐ 2 - 4 ☐ 4.1 - 6.9 ☐ 7 ☐ 7.1 - 10 ☐ 10.1 - 12.5 ☒ >12.5 ☐ EXACT ☐ N/A

SPECIFIC GRAVITY: ☐ <.8 ☐ .8 - 1.0 ☐ 1.1 - 1.2 ☐ EXACT ☐ 1.3 - 1.4 ☐ 1.5 - 1.7 ☐ >1.7

FLASH POINT: ☐ <70°F ☐ 70°F - 100°F ☐ 101°F - 139°F ☐ 140°F - 200°F ☐ >200°F ☐ NO FLASH ☐ EXACT ☐ CLOSED CUP ☐ OPEN CUP

C. CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

SETTLED SOLIDS	(0-10)%
SAMPLING DEBRIS	(0-5)%
HYDROXIDE LIQUIDS	(100)%
	( )%
BASE NORMALITY	(3.1 eq/L)
	( )%
	( )%
	( )%

D. METALS

☒ TOTAL (PPM) ☐ EPA EXTRACTION PROCEDURE (mg/L)

GOLD (Au)		TIN (Sn)	
IRON (Fe)		SILVER (Ag)	ND
CADMIUM (Cd)	2.91	COPPER (Cu)	300
CHROMIUM (Cr)	67.6	NICKEL (Ni)	58.6
MERCURY (Hg)	ND	ZINC (Zn)	
LEAD (Pb)	18.8	SELENIUM (Se)	.375
CHROMIUM HEX (Cr + 6)	ND	BORON (B0)	
ARSENIC (As)	.492	OTHER(S)	
BARIUM (Ba)	ND		

E. OTHER COMPONENTS - TOTAL (PPM)

CYANIDES	< 100 PPM HAZ-CAT NEG.	CHLORINED SOLVENTS	
SULFIDES		PCB'S	
		PHENOLICS	

F. SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL ? ☒ YES ☐ NO
PROPER SHIPPING NAME RQ WASTE SODIUM HYDROXIDE SOLUTION
HAZARDOUS CLASS 8 PG II I.D. NO. UN1824 R.Q. 10
METHOD OF SHIPMENT ☐ BULK LIQUID ☐ BULK SOLID ☒ DRUM (TYPE / SIZE) 17E / 55
ANTICIPATED VOLUME: GALS. CUBIC YARDS
9 OTHER DRUMS
PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR

G. HAZARDOUS CHARACTERISTICS

REACTIVITY: ☒ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☐ OTHER

OTHER HAZARDOUS CHARACTERISTICS
☒ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☐ OTHER

US EPA HAZARDOUS WASTE? ☒ YES ☐ NO
US EPA HAZARDOUS CODE(S) D002 D006 D007 D008
STATE HAZARDOUS WASTE? ☐ YES ☐ NO
STATE CODE(S)

H. SPECIAL HANDLING INFORMATION

SEE ATTACHED ANALYTICAL

☒ ADDITIONAL PAGE(S) ATTACHED

I CERTIFY THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED AND ALL ATTACHED DOCUMENTS, AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATLY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THAT THE SUBMITTED INFORMATION IS TRUE, AND COMPLETE.

AUTHORIZED SIGNATURE

Federal On-Scene Coordinator
TITLE

12-4-92
DATE

F92-277-01

CERTIFICATION OF WASTE STATUS BY TCLP

GENERATOR: US EPA REGION 9 / SJOB PLATING

ACCEPTANCE NO.: _____ WASTE CODES: D002 D006 D007 D008

AT THE POINT OF GENERATION, THE WASTE IDENTIFIED BY THE ABOVE REFERENCED ACCEPTANCE NUMBER EXHIBITS THE FOLLOWING CHARACTERISTIC CONSTITUENTS AS DETERMINED BY THE TCLP METHOD, AND AS REQUIRED ON SEPTEMBER 25, 1991 IN ACCORDANCE WITH THE FEDERAL REGISTER VOL. %%, no. 61, DATED MARCH 29, 1990:

____ NONE AS LISTED IN 40 CFR PART 261 SUBPART C FOR D004 THRU D043

✓ CHARACTERISTIC OF TOXIC CHARACTERISTIC LEACH PROCEDURE TOXICITY (TCLP) FOR THE FOLLOWING CONSTITUENTS ONLY:

__ ARSENIC (D004)
__ BARIUM (D005)
__ BENZENE (D018)
✓ CADMIUM (D006)
__ CARBON TETRACHLORIDE (D019)
__ CHLORDANE (D020)
__ CHLOROBENZENE (D021)
__ CHLOROFORM (D022)
✓ CHROMIUM (D007)
__ o-CRESOL (D023)
__ m-CRESOL (D024)
__ p-CRESOL (D025)
__ CRESOL (D026)
__ 2,4-D (D016)
__ 1,4-DICHLOROBENZENE (D027)
__ 1,2-DICHLOROETHANE (D028)
__ 1,1-DICHLOROETHYLENE(D029)
__ 2,4-DINITROTOLUENE (D030)
__ ENDRIN (D012)
__ HEPTACHLOR (D031)
__ HEXACHLOROBENZENE (D032)
__ HEXACHLOROBUTADIENE (D033)
__ HEXACHLOROETHANE (D034)
✓ LEAD (D008)
__ LINDANE (D013)
__ MERCURY (D009)
__ METHOXYCHLOR (D014)
__ METHYLETHYLKETONE (D035)
__ NITROBENZENE (D036)
__ PENTRACHLOROPHENOL (D037)
__ PYRIDINE (D038)
__ SELENIUM (D010)
__ SILVER (D011)
__ TETRACHLOROETHYLENE (D039)
__ TOXAPHENE (D015)
__ TRICHLOROETHYLENE (D040)
__ 2,4,5-TRICHLOROPHENOL (D041)
__ 2,4,6-TRICHLOROPHENOL (D042)
__ 2,4,5-TP (SILVEX) (D017)
__ VINYL CHLORIDE (D043)

CERTIFICATION

I certify that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste exhibits only characteristics as marked above from 40 CFR Part 261 Subpart C (as effective on 9/25/90). I believe that the information I am submitting is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification including the possibility of a fine and imprisonment.

Richard Wm Martin
PRINTED NAME

12-4-92
DATE

SIGNATURE

OSC
TITLE

ANALY CAL LAB REQUEST FOR ANALYSI
MARKETING SAMPLE

SAMPLE ID F92-277-01

LAB NO. 1292-209

SUBMITTED BY [illegible]

DATE/TIME 12-11-92

DATA FILE NUMBER 349 D

PRETREATMENT

AS IS	
FILTERED	
pH <2	1
H_2O_2	2

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

CN ANALYSIS (Units)
MG/KG ____
MG/L ____

CN SPOT	4.2

DISTILLATION

TOTAL	
NON-AMEN	
AMENABLE	

FIRE ASSAY
Wet Sample ____
Dry Sample ____
G DIGEST/250 ML

ACID	
H_2O	
QACID	

ACID #	
H_2O #	
QACID #	
ACID % IR	
H_2O % IR	
% MOIST.	

ICP METALS (MG/L)

Ag	0.1
Al	27.5
Au	3.3
B	86.1
Ca	140.4
Cd	1.0
Cr	14.3
Cu	16.1
Fe	19.2
Mg	36.0
Mn	1.0
Ni	23.0
P	45.9
Pb	4.2
Zn	3920.0

OTHER (MG/L)

NH_3	
Cl_2	
O&G	
TOC	1213.0
As	

pH	
SG	

H_2O SOL. IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{6+}	
Cr^6/Cr Tot	

INITIAL PHASE:

X Liquid

___ Solid

Generator SJOB PLATING

Profile # F92-277-01

TCLP

As:

Se:

AA METALS (MG/L)

ANALYZED BY JE/SK DATE: ____

APPROVED BY ____ DATE: ____

C O N F I D E N T I A L BUSINESS INFORMATION REMOVED

STICAM

MANIFEST F-LOG (92)-(276)-(01)

ETICAM

095 Newlands Drive East, Fernley, Nevada 89408
1-800-646-9931

GENERATOR'S WASTE MATERIAL PROFILE SHEET

PROFILE NUMBER
LOG #
DATE RECEIVED IN LAB

A. GENERAL INFORMATION

GENERATOR NAME: U.S. EPA - REGION 9 / SJOB PLATING
FACILITY ADDRESS: 612 MARTIN LUTHER KING BLVD. LAS VEGAS, NV

TRANSPORTER:
TRANSPORTER PHONE:
GENERATOR USEPA I.D. NVD982488793
GENERATOR STATE I.D.
CUSTOMER NAME: CET ENVIRONMENTAL
ADDRESS: 9706 4TH NE, SUITE 101 SEATTLE, WA 98115

TECHNICAL CONTACT: JEFF WEBB TITLE
NAME OF WASTE: BOL PHONE (206) 525-9168
PROCESS GENERATING WASTE: SUPERFUND CLEAN-UP @ METAL PLATING SHOP

B. PHYSICAL CHARACTERISTICS OF WASTE

COLOR: VARIES

VISCOSITY: [x] HIGH [ ] MEDIUM [ ] LOW

ODOR: [ ] NONE [ ] MILD [x] STRONG DESCRIBE CAUSTIC

PHYSICAL STATE AT 70° F: [ ] SOLID [x] SEMI-SOLID [x] LIQUID [ ] POWER

LAYERS: [ ] MULTIBAVERED [x] BILATERED [ ] SINGLE-PHASED

FREE LIQUIDS [x] YES [ ] NO VOLUME 50 %

pH: [ ] < 2 [ ] 2 - 4 [ ] 4.1 - 6.9 [ ] 7 [ ] 7.1 - 10 [ ] 10.1 - 12.5 [x] >12.5 [ ] EXACT [ ] N/A

SPECIFIC GRAVITY: [ ] <.8 [ ] .8 - 1.0 [x] 1.1 - 1.2 [ ] EXACT [ ] 1.3 - 1.4 [ ] 1.5 - 1.7 [ ] >1.7

FLASH POINT: [ ] <70°F [ ] 70°F - 100°F [ ] 101°F - 139°F [ ] 140°F - 200°F [x] >200°F [ ] NO FLASH [ ] EXACT [ ] CLOSED CUP [ ] OPEN CUP

C. CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

BASIC LIQUIDS	(0 - 100)%
BASIC SLUDGE w/ METALS	(0 - 75)%
	( )%
	( )%
BASE NORMALITY	(0.8 Eq/L)
	( )%
	( )%
	( )%

D. METALS [x] TOTAL (PPM) [ ] EPA EXTRACTION PROCEDURE (mg/L)

GOLD (Au)		TIN (Sn)	
IRON (Fe)		SILVER (Ag)	ND
CADMIUM (Cd)	3.85	COPPER (Cu)	300
CHROMIUM (Cr)	122	NICKEL (Ni)	36.1
MERCURY (Hg)	.27	ZINC (Zn)	
LEAD (Pb)	15.4	SELENIUM (Se)	.250
CHROMIUM HEX (Cr + 6)	7.8	BORON (B0)	
ARSENIC (As)	.468	OTHER(S)	
BARIUM (Ba)	ND		

E. OTHER COMPONENTS - TOTAL (PPM)

CYANIDES < 100 PPM HAZ CAT NEG
SULFIDES
CHLORINED SOLVENTS
PCB'S
PHENOLICS

F. SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL ? [x] YES [ ] NO
PROPER SHIPPING NAME RQ WASTE CORROSIVE LIQUID, NOS
HAZARDOUS CLASS 8 PG III I.D. NO. UN1760 R.Q. 10
METHOD OF SHIPMENT [ ] BULK LIQUID [ ] BULK SOLID [x] DRUM (TYPE / SIZE) 17E / 55
ANTICIPATED VOLUME: GALS. CUBIC YARDS
2 OTHER DRUMS
PER: [x] ONE TIME [ ] WEEK [ ] MONTH [ ] QUARTER [ ] YEAR

G. HAZARDOUS CHARACTERISTICS

REACTIVITY: [x] NONE [ ] PYROPHORIC [ ] SHOCK SENSITIVE [ ] EXPLOSIVE [ ] WATER REACTIVE [ ] OTHER

OTHER HAZARDOUS CHARACTERISTICS
[x] NONE [ ] RADIOACTIVE [ ] ETIOLOGICAL [ ] PESTICIDE MANUFACTURING WASTE [ ] OTHER

US EPA HAZARDOUS WASTE? [ ] YES [ ] NO
US EPA HAZARDOUS CODE(S) D009 D002 D006 D007 D008
STATE HAZARDOUS WASTE? [ ] YES [ ] NO
STATE CODE(S)

H. SPECIAL HANDLING INFORMATION

SEE ATTACHED ANALYTICAL

[x] ADDITIONAL PAGE(S) ATTACHED

I CERTIFY THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED AND ALL ATTACHED DOCUMENTS, AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATLY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THAT THE SUBMITTED INFORMATION IS TRUE, AND COMPLETE.

AUTHORIZED SIGNATURE — TITLE: Federal On-Scene Coordinator — DATE: 12-4-92

CERTIFICATION OF WASTE STATUS BY TCLP

GENERATOR: U.S. EPA REGION 9 / SJOB PLATING

ACCEPTANCE NO.: _____ WASTE CODES: D002 D006 D007 D008

AT THE POINT OF GENERATION, THE WASTE IDENTIFIED BY THE ABOVE REFERENCED ACCEPTANCE NUMBER EXHIBITS THE FOLLOWING CHARACTERISTIC CONSTITUENTS AS DETERMINED BY THE TCLP METHOD, AND AS REQUIRED ON SEPTEMBER 25, 1991 IN ACCORDANCE WITH THE FEDERAL REGISTER VOL. %%, no. 61, DATED MARCH 29, 1990:

____ NONE AS LISTED IN 40 CFR PART 261 SUBPART C FOR D004 THRU D043

✓ CHARACTERISTIC OF TOXIC CHARACTERISTIC LEACH PROCEDURE TOXICITY (TCLP) FOR THE FOLLOWING CONSTITUENTS ONLY:

__ ARSENIC (D004)
__ BARIUM (D005)
__ BENZENE (D018)
✓ CADMIUM (D006)
__ CARBON TETRACHLORIDE (D019)
__ CHLORDANE (D020)
__ CHLOROBENZENE (D021)
__ CHLOROFORM (D022)
✓ CHROMIUM (D007)
__ o-CRESOL (D023)
__ m-CRESOL (D024)
__ p-CRESOL (D025)
__ CRESOL (D026)
__ 2,4-D (D016)
__ 1,4-DICHLOROBENZENE (D027)
__ 1,2-DICHLOROETHANE (D028)
__ 1,1-DICHLOROETHYLENE(D029)
__ 2,4-DINITROTOLUENE (D030)
__ ENDRIN (D012)
__ HEPTACHLOR (D031)
__ HEXACHLOROBENZENE (D032)
__ HEXACHLOROBUTADIENE (D033)
__ HEXACHLOROETHANE (D034)
✓ LEAD (D008)
__ LINDANE (D013)
__ MERCURY (D009)
__ METHOXYCHLOR (D014)
__ METHYLETHYLKETONE (D035)
__ NITROBENZENE (D036)
__ PENTRACHLOROPHENOL (D037)
__ PYRIDINE (D038)
__ SELENIUM (D010)
__ SILVER (D011)
__ TETRACHLOROETHYLENE (D039)
__ TOXAPHENE (D015)
__ TRICHLOROETHYLENE (D040)
__ 2,4,5-TRICHLOROPHENOL (D041)
__ 2,4,6-TRICHLOROPHENOL (D042)
__ 2,4,5-TP (SILVEX) (D017)
__ VINYL CHLORIDE (D043)

CERTIFICATION

I certify that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste exhibits only characteristics as marked above from 40 CFR Part 261 Subpart C (as effective on 9/25/90). I believe that the information I am submitting is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification including the possibility of a fine and imprisonment.

Richard W. Martyn
PRINTED NAME

12-4-92
DATE

SIGNATURE

OSC
TITLE

ANAL -ICAL LAB REQUEST FOR ANALYS
MARKETING SAMPLE

SAMPLE ID F92-276-01

LAB NO. 1292-210

SUBMITTED BY [illegible]

DATE/TIME 12-11-92

DATA FILE NUMBER 349 F

PRETREATMENT

AS IS	
FILTERED	
pH <2	1
H_2O_2	2

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

CN ANALYSIS (Units)
MG/KG ___
MG/L ___

CN SPOT	0.5

DISTILLATION

TOTAL	
NON-AMEN	
AMENABLE	

FIRE ASSAY
Wet Sample ___
Dry Sample ___
G DIGEST/250 ML

ACID	
H_2O	
QACID	

ACID #	
H_2O #	
QACID #	
ACID % IR	
H_2O % IR	
% MOIST.	

ICP METALS (MG/L)

Ag	0.0
Al	41.7
Au	0.0
B	8.5
Ca	2.1
Cd	0.0
Cr	26.5
Cu	27.9
Fe	0.0
Mg	0.0
Mn	0.0
Ni	0.0
P	13.9
Pb	0.0
Zn	29.4

OTHER (MG/L)

NH_3	
Cl_2	
O&G	
TOC	96.2
As	

pH	
SG	

H_2O SOL. IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{6+}	
Cr^6/Cr Tot	

AA METALS ~~(MG/L)~~ µg/L

Hg	0.9 (ppb)

INITIAL PHASE:

X Liquid

___ Solid

Generator SSOB PLATING

Profile # F92-276-01

TCLP:

As:

Se:

ANALYZED BY JE/JK DATE: 12-21-92

APPROVED BY ___ DATE: ___

LIQUID
WASTE RECEIVING FORM

GENERATOR SSOB PLATING

LOG # F92.277-01

MANIFEST # 90029 11C

DRAGER VALUE —

EPA ID # NJD982498793

TRACKING # 93-033

DATE/TIME 1-28-93

RECEIVING AREA REAGENT

SAMPLE D ⇒ 10

PRESCREEN		TRUCK	PRESCREEN		TRUCK
pH	>12.5	12.40	Density	1.148	1.522
Color	BRN	CLEAR	# Phases	2	1
TOC mg/l	1213.0	437.3 (199.6)*	% Solids	~10.0%	ND
O & G mg/l	NO FREON	52.9	Fe mg/l	19.2	0.0 (0.0)*
Ag mg/l	0.1	0.0 (0.1)*	NH3 mg/l	N/A	NA —
As mg/l	NA	0.0 (—)	Ni mg/l	23.0	4.0 (0.4)*
Cd mg/l	1.0	0.0 (0.0)*	Pb mg/l	4.2	0.0 (0.6)*
Cr mg/l	14.3	0.0 (0.0)*	Sn mg/l	NA	NA —
Cu mg/l	16.1	(47.0) (0.0)*	Zn mg/l	3920.0	(271.0) (0.0)*
CN mg/l	4.2	<0.1	Ba		0.0

* Analysis Rerun for verification.

☐ NEW TREATABILITY

☐ PRICE INCREASE PER GALLON

☐ DRUM HANDLING

☐ SPECIAL HANDLING

☐ SATISFIED MARKETING CRITERIA

☒ Reagent (Should be 28C F92-276-01)

☐ SAMPLED RE-PROFILED

☐ UNSCHEDULED TRUCK

Approved by: M Lawler Date/Time 2/24/93

Received by: Date/Time

Manifest volume Actual volume

# of Containers Sample Fee

Customer # Customer PO# Price

LIQUID TRUCK REPORT

COMPANY: SJOB PLATING

MANIFEST #: 90029 1/c

TRACKING #: 93-033

WASTE CODE: D002, D006, D007, D008

F-LOG: (92)-(277)-(01)

TRUCK # RECEIVED: #1

DATE RECEIVED: 1.28.93

Ag			
Al			
Au			
B			
Ca			
Cd			
Cr			
Cu			
Fe			
Mg			
Mn			
Ni			
P			
Pb			
Zn			
As			

GROSS PROPERTIES

COLOR clear PHASES 1 pH 12.40 TOC 437.3

GALLONS 55 NH3 NA NO3 NA

VISCO high CN <0.1 O&G 52.9 ORP -50

ODOR - % SOLIDS NID SG 1.522

SAMPLE _____ H20 _____ TOTAL _____

DILUTION FACTOR _____

	pH	RX	TEMP
1. INITIAL VOL.			
2.			
3.			
4.			
5.			

CHEMICAL	L/L or Kg/L	$/GAL

SG OF EFFLUENT _____

TSS (By VOL.) _____

TDS (By Wt.) _____

TESTING PERFORMED BY _____ DATE _____

PROCESS CHEMIST _____ DATE _____

TOTAL CHEMICAL COST PER GALLON OF WASTE _____

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID F92-277-01 #1 LAB NO. 0193-413

SUBMITTED BY M. DATE/TIME 1-28-93

DATA FILE NUMBER 0283

PRETREATMENT	
AS IS	
FILTERED	
pH <2	1
H_2O =	2

AA H_2O CATIONS (MG/L)	
Na^+	
K^+	

CN ANALYSIS (Units) MG/KG ___ MG/L ___	
CN SPOT	<0.1
DISTILLATION	
TOTAL	
NON-AMEN	
AMENABLE	

FIRE ASSAY Wet Sample ___ Dry Sample ___ G DIGEST/250 ML	
ACID	
H_2O	
QACID	
ACID %	
H_2O %	
QACID %	
ACID % IR	
H_2O % IR	
% MOIST.	

FC2 METALS (MG/L)	
Ag	0.0
Al	12.0
Au	0.0
B	0.0
Ca	0.0
Cd	0.0
Co	0.0
Cu	47.0
Fe	0.0
Hg	0.0
Mn	0.0
Ni	4.0
P	34.0
Pb	0.0
Zn	271.0
Ba	0.0

OTHER (MG/L)	
NH_3	
Cl_2	
O&G	
TOC	437.3
As	0.0
pH	
SG	

H_2O SOL. IONS (MG/L)	
Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
CO_3^{2-}	
CO_3^{2-} + CO_3 Tot	

INITIAL PHASE:
X Liquid
___ Solid

Generator SJOB PLATING
Profile # F92.277.01
Tracking # 93-033
Drum # 10

SAMPLE D

AA METALS (MG/L)	

ANALYZED BY MH DATE: 1-28-93

APPROVED BY ___ DATE: ___

0193-413 1/100 1540 1/28/93

SeTr	AV	-0.14	SD	0.010	CV	7.23
MoTr	AV	-1.84	SD	0.028	CV	1.52
CrTr	AV	-0.06	SD	0.012	CV	21.11
SbTr	AV	-0.09	SD	0.141	CV	149.78
WTr	AV	-7.18	SD	0.113	CV	1.57
ZnTr	AV	2.71	SD	0.280	CV	10.33
CdTr	AV	-0.11	SD	0.020	CV	17.95
PTr	AV	0.34	SD	0.222	CV	65.79
PbTr	AV	-0.02	SD	0.056	CV	243.69
CoTr	AV	-0.07	SD	0.009	CV	12.62
NiTr	AV	0.04	SD	0.008	CV	18.94
BaTr	AV	-0.43	SD	0.001	CV	0.14
AuTr	AV	-1.46	SD	0.053	CV	3.61
BTr	AV	-3.69	SD	0.066	CV	1.80
MnTr	AV	-0.07	SD	0.004	CV	4.95
FeTr	AV	-0.15	SD	0.025	CV	17.05
MgTr	AV	-0.15	SD	0.020	CV	13.30
SnTr	AV	-0.09	SD	0.036	CV	40.45
VTr	AV	-0.19	SD	0.033	CV	17.17
BiTr	AV	0.03	SD	0.003	CV	10.73
AlTr	AV	0.12	SD	0.004	CV	3.31
CaTr	AV	-0.37	SD	0.044	CV	11.81
CuTr	AV	0.47	SD	0.033	CV	6.99
AgTr	AV	-0.05	SD	0.010	CV	19.09
TiTr	AV	1.88	SD	0.214	CV	11.40
ScTr	AV	327480.0	SD	25860.3	CV	7.9

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID F92-276-01

LAB NO. 0293-477

SUBMITTED BY [illegible]

DATE/TIME 2/23/93

DATA FILE NUMBER 054 D

PRETREATMENT

AS IS	
FILTERED	
pH <2	
H_2O_2	

ICP METALS (MG/L)

Ag	0.1
Al	0.7
Au	NA
B	0.0
Ca	0.0
Cd	0.0
Cr	0.0
Cu	0.0
Fe	0.0
Mg	0.41
Mn	0.0
Ni	0.4
P	6.2
Pb	0.6
Zn	0.0
Ba	<0.1

AA METALS (MG/L)

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

OTHER (MG/L)

NH_3	
Cl_2	
O&G	
TOC	199.6
As	

pH	
SG	

H_2O SOL. IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{6+}	
Cr^{6+}/Cr Tot	

CN ANALYSIS (Units)
MG/KG ____
MG/L ____

CN SPOT	

DISTILLATION

TOTAL	
NON-AMEN	
AMENABLE	

FIRE ASSAY
Wet Sample ____
Dry Sample ____
G DIGEST/250 ML

ACID	
H_2O	
QACID	

ACID #	
H_2O #	
QACID #	
ACID % IR	
H_2O % IR	
% MOIST.	

CAUSTIC

INITIAL PHASE:

X Liquid

___ Solid

Generator SJOB

Profile # F92-276-0

Tracking # ____

Drum # ____

ANALYZED BY GJE DATE: 2-23-93

APPROVED BY ____ DATE: ____

0293-477 1/20 REPLICATE #1 1507 2/23/93

SeT		0.175	window-edge
MoT		-0.052	window-edge
CrT		-0.112	peak-noisy
ZnT		-0.033	peak-noisy
CdT		-0.004	peak-noisy
PT		1.673	
PbT		0.148	peak-noisy
CoT		0.004	peak-noisy
NiT		0.024	peak-noisy
BaT		-0.001	
BT		-0.485	
MnT		-0.014	peak-noisy
FeT		-0.123	peak-noisy
MgT		0.109	peak-noisy
AlT		0.106	
CaT		-0.075	
CuT		-0.021	peak-noisy
AgT		0.019	peak-noisy
ScT	EM	341043	

0293-477 1/20 REPLICATE #2

SeT		0.342	peak-noisy
MoT		-0.020	peak-noisy
CrT		-0.135	peak-noisy
ZnT		-0.034	peak-noisy
CdT		-0.004	peak-noisy
PT		0.799	
PbT		0.097	peak-noisy
CoT		0.003	peak-noisy
NiT		0.157	peak-noisy
BaT		0.006	peak-noisy
BT		-0.479	
MnT		-0.014	peak-noisy
FeT		-0.117	peak-noisy
MgT		0.053	peak-noisy
AlT		0.173	peak-noisy
CaT		-0.056	peak-noisy
CuT		-0.019	peak-noisy
AgT		0.015	peak-noisy
ScT	EM	331360	

SeT	AV	0.259	SD	0.1180	CV	45.58
MoT	AV	-0.036	SD	0.0228	CV	63.38
CrT	AV	-0.123	SD	0.0161	CV	13.07
ZnT	AV	-0.034	SD	0.0007	CV	2.19
CdT	AV	-0.004	SD	0.0001	CV	2.03
PT	AV	1.236	SD	0.6183	CV	50.01
PbT	AV	0.123	SD	0.0362	CV	29.48
CoT	AV	0.004	SD	0.0008	CV	21.18
NiT	AV	0.088	SD	0.0907	CV	102.94
BaT	AV	0.003	SD	0.0048	CV	187.63
BT	AV	-0.487	SD	0.0116	CV	2.38
MnT	AV	-0.014	SD	0.0001	CV	0.94
FeT	AV	-0.120	SD	0.0047	CV	3.94
MgT	AV	0.081	SD	0.0395	CV	48.84
AlT	AV	0.139	SD	0.0471	CV	33.81
CaT	AV	-0.065	SD	0.0135	CV	20.60
CuT	AV	-0.020	SD	0.0017	CV	8.22
AgT	AV	0.017	SD	0.0033	CV	19.48
ScT	AV	336201.5	SD	6846.9	CV	2.0

LIQUID
WASTE RECEIVING FORM

GENERATOR 550B PLATING

EPA ID # NJD982488793

LOG # F92.276.01

TRACKING # 93-034

MANIFEST # 90029 28c

DATE/TIME 1.28.93

DRAGER VALUE —

RECEIVING AREA T-3

PRESCREEN		TRUCK	PRESCREEN		TRUCK
pH	>12.5	>12.5 (0.0)	Density	1.091	1.10
Color	LT GREEN	GRN	# Phases	1	1
TOC mg/l	96.2	69.37	% Solids	0.0	ND
O & G mg/l	NO PRESENT	50.0	Fe mg/l	0.0	0.0
Ag mg/l	0.0	0.0	NH3 mg/l	N/A	NA
As mg/l	NA	0.0	Ni mg/l	0.0	0.7
Cd mg/l	0.0	0.0	Pb mg/l	0.0	2.8
Cr mg/l	26.5	30.1	Sn mg/l	N/A	6.8
Cu mg/l	27.9	29.5	Zn mg/l	29.4	26.8
CN mg/l	0.5	<0.1	Hg	0.9 PPB	

☐ NEW TREATABILITY

☐ PRICE INCREASE PER GALLON

☐ DRUM HANDLING

☐ SPECIAL HANDLING

☐ SATISFIED MARKETING CRITERIA

☑ 28c is Mislabled. It should be 11c.

☐ SAMPLED RE-PROFILED

☐ UNSCHEDULED TRUCK

Approved by: M Lawler Date/Time 2/24/93

Received by: _____ Date/Time _____

Manifest volume _____ Actual volume _____

# of Containers _____ Sample Fee _____

Customer # _____ Customer PO# _____ Price _____

LIQUID TRUCK REPORT

COMPANY: 5503 PLATING

F-LOG: (92)-(276)-(01)

MANIFEST #: 90029 28c

TRUCK # RECEIVED: #1

TRACKING #: 93-034

DATE RECEIVED: 1.28.93

WASTE CODE: D009, D002, D006, D007, D008

Ag			
Al			
Au			
B			
Ca			
Cd			
Cr			
Cu			
Fe			
Mg			
Mn			
Ni			
P			
Pb			
Zn			
As			

GROSS PROPERTIES

COLOR GRN PHASES 1 pH >12.5 TOC 69.37

GALLONS 55 NH3 NA NO3 NA

VISCO med CN <0.1 O&G 50.0 ORP 0.0

ODOR — % SOLIDS ND SG 1.10

SAMPLE _____ H20 _____ TOTAL _____

DILUTION FACTOR _____

	pH	RX	TEMP
1. INITIAL VOL.			
2.			
3.			
4.			
5.			

CHEMICAL	L/L or Kg/L	$/GAL

SG OF EFFLUENT _____

TSS (By VOL.) _____

TDS (By Wt.) _____

TESTING PERFORMED BY _____ DATE _____

PROCESS CHEMIST _____ DATE _____

TOTAL CHEMICAL COST PER GALLON OF WASTE _____

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID F92.276.01 #1 LAB NO. 0193-410

SUBMITTED BY M. DATE/TIME 1-28-93

DATA FILE NUMBER 028B

PRETREATMENT

AS IS	
FILTERED	
pH <2	1
H_2O_2	2

ICP METALS (MG/L)

Ag	0.0
Al	30.6
Au	0.0
B	0.0
Ca	1.4
Cd	0.0
Cr	30.1
Cu	29.5
Fe	0.0
Mg	1.1
Mn	0.0
Ni	0.7
P	22.3
Pb	2.8
Zn	26.8
Ba	0.0

AA METALS (MG/L)

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

OTHER (MG/L)

NH_3	
Cl_2	
O&G	
TOC	69.37
As	0.0

pH	
SG	

H_2O SOL. IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{3+}	
Cr^{+7}/Cr TOC	

CN ANALYSIS (Units)
MG/KG ___
MG/L ___

CN SPOT	<0.1

DISTILLATION

TOTAL	
NON-AMEN	
AMENABLE	

FIRE ASSAY
Wet Sample ___
Dry Sample ___
G DIGEST/250 ML

ACID	
H_2O	
QACID	

ACID %	
H_2O %	
QACID %	
ACID % IR	
H_2O % IR	
% MOIST.	

INITIAL PHASE:
✓ Liquid
___ Solid

Generator 550B PLATING
Profile # F92.276.01
Tracking # 93-034
Drum # 1

ANALYZED BY MH DATE: 1-28-93

APPROVED BY ___ DATE: ___

SeTr	AV	-0.14	SD	0.020	CV	13.98
MoTr	AV	-1.81	SD	0.020	CV	1.12
CrTr	AV	3.01	SD	0.001	CV	0.04
SbTr	AV	-0.07	SD	0.028	CV	37.93
WTr	AV	-6.96	SD	0.038	CV	0.55
ZnTr	AV	2.68	SD	0.063	CV	2.36
CdTr	AV	-0.10	SD	0.015	CV	14.82
PTr	AV	2.23	SD	0.080	CV	3.59
PbTr	AV	0.28	SD	0.013	CV	4.51
CoTr	AV	-0.06	SD	0.018	CV	29.16
NiTr	AV	0.07	SD	0.013	CV	19.39
BaTr	AV	-0.43	SD	0.001	CV	0.22
AuTr	AV	-1.44	SD	0.006	CV	0.44
BTr	AV	-2.89	SD	0.087	CV	3.00
MnTr	AV	-0.06	SD	0.010	CV	15.06
FeTr	AV	-0.07	SD	0.052	CV	70.68
MgTr	AV	0.11	SD	0.027	CV	23.88
SnTr	AV	0.68	SD	0.265	CV	39.16
VTr	AV	-0.19	SD	0.010	CV	5.34
BiTr	AV	-0.01	SD	0.044	CV	595.97
AlTr	AV	3.06	SD	0.043	CV	1.41
CaTr	AV	0.14	SD	0.036	CV	25.39
CuTr	AV	2.95	SD	0.112	CV	3.81
AgTr	AV	-0.06	SD	0.003	CV	5.57
TiTr	AV	1.99	SD	0.082	CV	4.09
ScTr	AV	359052.0	SD	15912.7	CV	4.4

1.6)

SLUDGE MARKETING REPORT

M-LOG: (92)-(172)-(01)

PROJECTED QUANTITY: 2 Drums

CYANIDE (Y/N): 0.0

COLOR: SAND

FREE LIQUID: ND

COMPANY: SSOB PLATING

DATE & TIME: 12-10-92

GWP SUMMARY: Cr, Cu, CN, Ni

WASTE CODE: D007

% MOISTURE: 1.7

L.D. = 2.099

pH = 9.36

*ALL VALUES ARE BASED UPON DRY WT.

NCS-LOW 2 Drums

	FREE LIQUID	FILTRATE	FILTER CAKE	* % BY WEIGHT
Ag			0.5	<0.01
Al			22.9	0.23
As				
Au			0.0	0.0
B			0.0	0.0
Ba				
Ca			421.2	4.21
Cd			0.7	<0.01
Cl				
Cr			25.4	0.25
Cu			130.7	1.31
Fe			18.8	0.19
Hg				
K				
Mg			22.2	0.22
Na				
Ni			12.3	0.12
NO3				
Pb			3.0	0.03
PO4			100.2	1.00
Se				
Sn				
SiO2				
SO4				
Zn			11.7	0.12
S.G.				
TOC			108.1	0.27
NH3				
CN				

TCLP: Hg: <0.5 ppb

As:

Se:

2702.5 ppm = TOC

NA - Not Analyzed
ND - None Detected

TESTING PERFORMED BY:

REVIEWED BY: M Kaufer 12/22/92

1/29/91

ETICAM

095 Newlands Drive East, Fernley, Nevada 89408
1-800-648-9931

GENERATOR'S WASTE MATERIAL PROFILE SHEET

PROFILE NUMBER
LOG #
DATE RECEIVED IN LAB

GENERAL INFORMATION

GENERATOR NAME: U.S. EPA - REGION 9 / SJOB PLATING
FACILITY ADDRESS: 612 MARTIN LUTHER KING BLVD. LAS VEGAS, NV
TECHNICAL CONTACT: JEFF WEBB TITLE
NAME OF WASTE: NCS - LOW PHONE (206) 525-9168
PROCESS GENERATING WASTE: SUPERFUND CLEAN-UP @ METAL PLATING SHOP

TRANSPORTER:
TRANSPORTER PHONE:
GENERATOR USEPA I.D. NVD 982488793
GENERATOR STATE I.D.
CUSTOMER NAME: CET ENVIRONMENTAL
ADDRESS: 9706 4TH NE, SUITE 101 SEATTLE, WA 98115

B. PHYSICAL CHARACTERISTICS OF WASTE

COLOR: VARIES

VISCOSITY: [x] HIGH [ ] MEDIUM [ ] LOW

ODOR: [x] NONE [ ] MILD [ ] STRONG DESCRIBE

PHYSICAL STATE AT 70° F: [x] SOLID [ ] SEMI-SOLID [ ] LIQUID [x] POWER

LAYERS: [x] MULTIBAVERED [ ] BILATERED [ ] SINGLE-PHASED

FREE LIQUIDS [ ] YES [x] NO VOLUME ____ %

pH: [ ] < 2 [ ] 2 - 4 [x] 4.1 - 6.9 [x] 7 [ ] 7.1 - 10 [ ] 10.1 - 12.5 [ ] >12.5 [ ] EXACT [ ] N / A

SPECIFIC GRAVITY: [ ] <.8 [ ] .8 - 1.0 [x] 1.1 - 1.2 [ ] EXACT [ ] 1.3 - 1.4 [ ] 1.5 - 1.7 [ ] >1.7

FLASH POINT: [ ] <70°F [ ] 70°F - 100°F [ ] 101°F - 139°F [ ] 140°F - 200°F [x] >200°F [ ] NO FLASH [ ] EXACT [ ] CLOSED CUP [ ] OPEN CUP

C. CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

METAL CONTAINING SOLIDS + POWDERS	90-100 %
GRAVEL / ROCKS	0-15 %
TOTAL HEAVY METALS	0-2 %

D. METALS [ ] TOTAL (PPM) [x] EPA EXTRACTION PROCEDURE (mg/L)

GOLD (Au)		TIN (Sn)	
IRON (Fe)		SILVER (Ag)	ND
CADMIUM (Cd)	ND	COPPER (Cu)	56.8
CHROMIUM (Cr)	X 110	NICKEL (Ni)	5.8
MERCURY (Hg)	.01	ZINC (Zn)	
LEAD (Pb)	2.4	SELENIUM (Se)	.041
CHROMIUM HEX (Cr + 6)	51.6	BORON (B0)	
ARSENIC (As)	.003	OTHER(S)	
BARIUM (Ba)	ND		

E. OTHER COMPONENTS - TOTAL (PPM)

CYANIDES < 100 ppm
SULFIDES
CHLORINED SOLVENTS
PCB'S
PHENOLICS

F. SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL ? [x] YES [ ] NO
PROPER SHIPPING NAME RQ HAZARDOUS WASTE SOLID, NOS
HAZARDOUS CLASS 9 PG III I.D. NO. NA3077 R.Q. 10
METHOD OF SHIPMENT [ ] BULK LIQUID [ ] BULK SOLID [x] DRUM (TYPE / SIZE) 17H / 55
ANTICIPATED VOLUME: ____ GALS. ____ CUBIC YARDS 2 OTHER DRUMS
PER: [x] ONE TIME [ ] WEEK [ ] MONTH [ ] QUARTER [ ] YEAR

G. HAZARDOUS CHARACTERISTICS

REACTIVITY: [x] NONE [ ] PYROPHORIC [ ] SHOCK SENSITIVE [ ] EXPLOSIVE [ ] WATER REACTIVE [ ] OTHER

OTHER HAZARDOUS CHARACTERISTICS [x] NONE [ ] RADIOACTIVE [ ] ETIOLOGICAL [ ] PESTICIDE MANUFACTURING WASTE [ ] OTHER

US EPA HAZARDOUS WASTE? [x] YES [ ] NO
US EPA HAZARDOUS CODE(S) D007
STATE HAZARDOUS WASTE? [ ] YES [ ] NO
STATE CODE(S)

H. SPECIAL HANDLING INFORMATION

SEE ATTACHED ANALYTICAL

[x] ADDITIONAL PAGE(S) ATTACHED

I CERTIFY THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED AND ALL ATTACHED DOCUMENTS, AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATLY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THAT THE SUBMITTED INFORMATION IS TRUE, AND COMPLETE.

AUTHORIZED SIGNATURE

Federal On Scene Coordinator
TITLE

12-4-92
DATE

ANAL ICAL LAB REQUEST FOR ANALY S
MARKETING SAMPLE

SAMPLE ID M92-172-01

LAB NO. 1292-160

SUBMITTED BY JE

DATE/TIME 12-10-92

DATA FILE NUMBER 356E

GH - M. Hanks

PRETREATMENT

AS IS	✓
FILTERED	
pH <2	
H_2O_2	

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

CN ANALYSIS (Units)
MG/KG ___
MG/L ___

CN SPOT	

DISTILLATION

TOTAL	0.0
NON-AMEN	
AMENABLE	

FIRE ASSAY
Wet Sample ___
Dry Sample ✓
G DIGEST/250 ML

ACID	2.5g
H_2O	10.0g
QACID	

ACID #	7
H_2O #	17
QACID #	
ACID % IR	
H_2O % IR	
% MOIST.	1.7

ICP METALS (MG/L)

Ag	0.5
Al	22.9
Au	0.0
B	0.0
Ca	421.2
Cd	0.7
Cr	25.4
Cu	130.7
Fe	18.8
Mg	22.2
Mn	0.0
Ni	12.3
P	100.2
Pb	3.0
Zn	11.7

OTHER (MG/L)

NH_3	
Cl_2	
O&G	
TOC	108.1
As	

pH	
SG	

H_2O SOL. IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{6+}	
Cr^6/Cr Tot	

INITIAL PHASE:

___ Liquid

___ Solid

Generator SSOB PLATING

Profile # M92-172-01

TCLP
As:
Se:
~~Hg~~

AA METALS (MG/L)

ANALYZED BY JE DATE: 12-21-92

APPROVED BY ___ DATE: ___

ANALYTICAL LAB REQUEST
LAND BAN ANALYSIS

Sample ID M92-172-01

ETICAM Lab # 1292-160

Submitted by _____

Date / Time _____

Data File # _____

TCLP DATA

pH of sample with water	10.7
pH of sample with HCl	6.2
Extraction Fluid used	2
Sample weight	50.0gr
mL of Fluid	~~50~~ 1L
Bottle Number	1
Start Time	2200

CN IN SAMPLE (mg/Kg)

Total	0 0
Non-Amen	
Amenable	

OUTSIDE LAB

Name	
Date	
COC #	

METALS BY ICP (mg/L)

Ag	0.039
B	69.322
Ba	1.361
Cd	1.141
Cr	3.463
Cu	3.381
Fe	0.130
Ni	3.101
Pb	0.109
Zn	4.246

Hg <0.5 µg/L (ppb)

ANALYZED BY MA/JK

DATE 12-21-92

CERTIFICATION OF WASTE STATUS BY TCLP

GENERATOR: U.S. EPA REGION 9 / SJOB PLATING

ACCEPTANCE NO.: _____ WASTE CODES: D007

AT THE POINT OF GENERATION, THE WASTE IDENTIFIED BY THE ABOVE REFERENCED ACCEPTANCE NUMBER EXHIBITS THE FOLLOWING CHARACTERISTIC CONSTITUENTS AS DETERMINED BY THE TCLP METHOD, AND AS REQUIRED ON SEPTEMBER 25, 1991 IN ACCORDANCE WITH THE FEDERAL REGISTER VOL. %%, no. 61, DATED MARCH 29, 1990:

____ NONE AS LISTED IN 40 CFR PART 261 SUBPART C FOR D004 THRU D043

✓ CHARACTERISTIC OF TOXIC CHARACTERISTIC LEACH PROCEDURE TOXICITY (TCLP) FOR THE FOLLOWING CONSTITUENTS ONLY:

__ ARSENIC (D004)
__ BARIUM (D005)
__ BENZENE (D018)
__ CADMIUM (D006)
__ CARBON TETRACHLORIDE (D019)
__ CHLORDANE (D020)
__ CHLOROBENZENE (D021)
__ CHLOROFORM (D022)
✓ CHROMIUM (D007)
__ o-CRESOL (D023)
__ m-CRESOL (D024)
__ p-CRESOL (D025)
__ CRESOL (D026)
__ 2,4-D (D016)
__ 1,4-DICHLOROBENZENE (D027)
__ 1,2-DICHLOROETHANE (D028)
__ 1,1-DICHLOROETHYLENE(D029)
__ 2,4-DINITROTOLUENE (D030)
__ ENDRIN (D012)
__ HEPTACHLOR (D031)
__ HEXACHLOROBENZENE (D032)
__ HEXACHLOROBUTADIENE (D033)
__ HEXACHLOROETHANE (D034)
__ LEAD (D008)
__ LINDANE (D013)
__ MERCURY (D009)
__ METHOXYCHLOR (D014)
__ METHYLETHYLKETONE (D035)
__ NITROBENZENE (D036)
__ PENTRACHLOROPHENOL (D037)
__ PYRIDINE (D038)
__ SELENIUM (D010)
__ SILVER (D011)
__ TETRACHLOROETHYLENE (D039)
__ TOXAPHENE (D015)
__ TRICHLOROETHYLENE (D040)
__ 2,4,5-TRICHLOROPHENOL (D041)
__ 2,4,6-TRICHLOROPHENOL (D042)
__ 2,4,5-TP (SILVEX) (D017)
__ VINYL CHLORIDE (D043)

CERTIFICATION

I certify that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste exhibits only characteristics as marked above from 40 CFR Part 261 Subpart C (as effective on 9/25/90). I believe that the information I am submitting is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification including the possibility of a fine and imprisonment.

Richard W. Martin
PRINTED NAME

12-4-92
DATE

Richard W. Martin
SIGNATURE

OSC
TITLE

SLUDGE
WASTE RECEIVING FORM

GENERATOR SJOB PLATING

EPA ID # NVD982488793

M-LOG # M92-172-01

TRACKING # S93-018

MANIFEST # 90029 112

DATE/TIME 1-28-93

DRUM #'s 1, 3

RECEIVING AREA

PRESCREEN		TRUCK	PRESCREEN		TRUCK
pH	9.36	9.70	Density	2.099	2.070
Color	SAND	SAND	# Phases	1	1
TOC mg/l	2702.5	3052.5	% Solids	100.0	100.0
Free Liquid	ND	ND	Fe % wt.	0.19	0.34
Ag % wt.	<0.01	<0.01	P % wt.	1.00	2.0
As % wt.	NA	NA	Ni % wt.	0.12	0.14
Cd % wt.	<0.01	0.0	Pb % wt.	0.03	0.0
Cr % wt.	0.25	0.45	Sn % wt.	NA	0.11
Cu % wt.	1.31	2.96	Zn % wt.	0.12	8.78
CN mg/l	0.0	2336.0 (dist)	% Moisture	1.7	8.7

% wt. values are based upon dry analysis. NEEDS As, Se ON TCLP

☐ NEW TREATABILITY

☐ SATISFIED MARKETING CRITERIA

☐ PRICE INCREASE

☐ DRUM HANDLING

☑ COST FEASIBILITY STUDY NECESSARY

Approved by: M Kinsley Date/Time 2/11/93

Received by: Date/Time

Manifest volume Actual volume

# of Containers Sample fee

Customer # Customer PO Price

SLUDGE
WASTE RECEIVING FORM

GENERATOR SJOB PLATING

EPA ID # NVD98 2488793

M-LOG # M92-172-01

TRACKING # S93-018

MANIFEST # 90029 11d

DATE/TIME 1-28-93

DRUM #'s 2

RECEIVING AREA

PRESCREEN		TRUCK	PRESCREEN		TRUCK
pH	9.36	8.19	Density	2.099	1.896
Color	SAND	GRN.	# Phases	1	1
TOC mg/l	2702.5	6982.5	% Solids	100.0	100.0
Free Liquid	ND	ND	Fe % wt.	0.19	0.98
Ag % wt.	<0.01	0.0	P % wt.	1.00	4.34
As % wt.	NA	NA	Ni % wt.	0.12	1.94
Cd % wt.	<0.01	0.0	Pb % wt.	0.03	1.02
Cr % wt.	0.25	0.87	Sn % wt.	NA	0.29
Cu % wt.	1.31	6.28	Zn % wt.	0.12	0.44
CN mg/l	0.0	4274.1 (spot)	% Moisture	1.7	18.1

NEEDS As, Se ON TCLP

% wt. values are based upon dry analysis.

☐ NEW TREATABILITY

☐ SATISFIED MARKETING CRITERIA

☐ PRICE INCREASE

☐ DRUM HANDLING

☐ COST FEASIBILITY STUDY NECESSARY

Approved by: M Kaun Date/Time 2/11/93

Received by: Date/Time

Manifest volume Actual volume

# of Containers Sample fee

Customer # Customer PO# Price

1 20 91

TREATABILITY GENERATED MATERIAL PROJECTION

TRUCK SAMPLE

COMPANY: SJOB

TRACKING #: 593-018 (#1,2,3)

S-LOG:

MANIFEST #: 90029 (11d)

GWP SUMMARY: ZnCN

MANIFEST VOLUME: 3 DRMS (#'s 1,2,3)

WASTE CODE: D003

EPA ID #: NVD982488793

All information provided is based upon 1 ton (2,000 lbs.) of sludge.

Chemical Cost = $980.00

Volume displacement of sludge = 142 GALS

H_2O Requirement for treatment = 5880 GALS

Final volume after treatment = 7600 GALS

Filter Cake After Treatability

Wet = 8160 LBS

Dry = 1440 LBS

% Moisture = 82.4%

Salt produced* = 5200 LBS

*Assumption is made that final volume does not change with sludge removal.

980
3800
600
600
5
5985 /TON

#3 /#

1/27/93
RJS

ZnCN

TRUCK SLUDGE TREATMENT

M-LOG: ( )-( )-( )

DATE RECEIVED: 1-28-93

TRACKING #:

EXPERIMENTAL DATA

(A) Vol. of H_2O= 20 mls

(B) Wt. of Sample= 5.73g

(C) Final Vol.= 23.4 mls

(D) B divided by (C-A)=

Specific GRAVITY= 1.69

FINAL VOLUME= 129.0 mls

VOL. USED FOR ANALYSIS=

FILTER CAKE WET= 23.4g

FILTER CAKE DRY= 4.12g

% MOISTURE= 82.4%

TSS (By Vol.)= —

S.G. OF EFFLUENT= 1.074

TDS (By Wt.)= 10.76

COMPANY: SJOB

WIP SUMMARY: ZnCN

WASTE CODE: D003

COLOR GRN PHASES 1 pH 10.4 CN

ODOR CN % SOLIDS 100 QUANTITY 3 DRM

TREATMENT STUDY

WT. of SAMPLE 5.73 VOL. of H_2O 100.0

BEGINNING VOLUME 103.4 mls

		pH	RX	TEMP
1.	INITIAL VOL. 103.4			
	NaOH 2.1 mls		-100	
	NaOCl 10 mls	12.0	+450	30°C
	$MgCl_2$ 0.5g			
2.	Metal 0.4g			
	H_2SO_4 7.2 mls	2.5	+290	
3.	Metal 0.6g			
	NaOH 2.2 mls	9.0	-30	
4.				
5.				
6.				
7.				

CHEMICAL	L/LB or Kg/LB	$/LB
NaOCl	0.792 L/LB	0.15
NaOH	0.333 L/LB	0.12
H_2SO_4	0.586 L/LB	0.12
$Na_2S_2O_5$	0.079 Kg/LB	0.07
$MgCl_2$	0. Kg/LB	0.03

CHEMICAL COST PER POUND $0.49

TESTING PERFORMED BY — DATE 1/29/93

PROCESS CHEMIST — DATE

1/29/91

ANALYTICAL LAB REQUEST FOR ANALYSIS

SAMPLE ID PT-ZnCN

LAB NO. 0193-439

SUBMITTED BY [illegible]

DATE/TIME 1/29/93

DATA FILE NUMBER

PRETREATMENT

AS IS	
FILTERED	
pH <2	
H_2O_2	

ICP METALS (MG/L)

Ag	0.2
Al	3.3
Au	NA
B	5.9
Ca	277.1
Cd	<0.1
Cr	0.1
Cu	1.0
Fe	0.0
Mg	5.9
Mn	0.2
Ni	0.4
P	5.9
Pb	0.5
Zn	0.2

AA METALS (MG/L)

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

OTHER (MG/L)

NH_3	
Cl_2	
O&G	
TOC	
As	

pH	
SG	

H_2O SOLUBLE IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{6+}	
Cr^{6+}/Cr Tot	

CN ANALYSIS

(Units)

MG/KG ___

MG/L ___

CN SPOT	0.00

DISTILLATION

TOTAL	
NON-AMEN	
AMENABLE	

FIRE ASSAY

Wet Sample ___

Dry Sample ___

G DIGEST/250 ML

ACID	
H_2O	
QACID	

ACID #	
H_2O #	
QACID #	
ACID % IR	
H_2O % IR	
% MOIST.	

S93-020 (#1,2,3)

JK/

1/29/93

APPROVED BY ___ DATE: ___

SLUDGE TRUCK REPORT

TRACKING: 593-018

M-LOG: (92)-(172)-(01)#1

EPA ID No.: NUD

MANIFEST #: 90029 11d

MANIFEST VOLUME:

RECEIVING AREA:

COMPANY: SJOB PLATING

DATE & TIME: 1-28-93

GWP SUMMARY:

WASTE CODE:

% MOISTURE: 18.1 pH: 8.19

CYANIDE (Y/N): 4274.1 (spot)

COLOR: GRN

=ALL VALUES ARE BASED UPON DRY WT.

	FREE LIQUID	FILTRATE	FILTER CAKE	* % BY WEIGHT
Ag			0.0	0.0
Al			14.9	0.15
As				
Au			0.0	0.0
B			28.3	0.28
Ba			NA 0.0	NA 0.0
Ca			580.1	5.80
Cd			0.0	0.0
Cl				
Cr			86.6	0.87
Cu			628.1	6.28
Fe			98.1	0.98
Hg			NA	NA
K				
Mg			92.8	0.93
Na				
Ni			194.2	1.94
NO3				
P			434.1	4.34
Pb			102.3	1.02
Se			NA	NA
Sn			28.5	0.29
SiO2				
SO4				
Zn			43.9	0.44
S.G.				
TOC			279.3	0.70
NH3				
CN				

LIQUID DISPLACEMENT 1.896

QUICK DIGEST ☐

REGULAR DIGEST ☑

Dem #2

Hg - 0.87 ppm

Acid IR 20.1%
H_2O IR 66.3%

6982.5 ppm = TOC

NA - Not Analyzed
ND - None Detected

TESTING PERFORMED BY:

REVIEWED BY: M Kiwala

1/30/91

TRUCK

SLUDGE MARKETING REPORT

M-LOG: (92)-(172)-(01)

COMPANY: STOB PLATING

MANIFEST VOLUME: 3 dms

DATE & TIME: 1-28-93

PROJECTED:

GWP SUMMARY: ZnCN

CYANIDE (Y/N): 2336.0 (dist)

WASTE CODE:

COLOR: SAND

% MOISTURE: 8.7

FREE LIQUID: ND

	FREE LIQUID	FILTRATE	FILTER CAKE	% BY WEIGHT
Ag			0.3	<0.01
Al			53.6	0.54
As				
Au			0.0	0.0
B			0.0	0.0
Ba			0.0	0.0
Ca			82.6	0.83
Cd			0.0	0.0
Cl				
Cr			44.5	0.45
Cu			296.4	2.96
Fe			33.9	0.34
Hg				
K				
Mg			12.8	0.13
Na				
Ni			13.7	0.14
NO3				
Pb			0.0	0.0
PO4			200.0	2.00
Se				
Sn			10.8	0.11
SiO_2				
SO4				
Zn			877.8	8.78
S.G.				
TOC			122.1	0.31
NH_3				
CN				

Dems 1, 3

Hg = 0.82 ppm

Acid FR 3.4%
H_2O FR 29.1%

3052.5 ppm = TOC

NA - Not Analyzed
ND - None Detected

TESTING PERFORMED BY:

REVIEWED BY: M Kawler

ANALYTICAL LAB REQUEST FOR ANALYSIS

SAMPLE ID S93-018 #1-3 LAB NO. 0193-441

SUBMITTED BY M.L. DATE/TIME 1-29-93

DATA FILE NUMBER

PRETREATMENT

AS IS	
FILTERED	
pH <2	
H_2O_2	

ICP METALS (MG/L)

Ag	
Al	
Au	
B	
Ca	
Cd	
Cr	
Cu	
Fe	
Mg	
Mn	
Ni	
P	
Pb	
Zn	

AA METALS (MG/L)

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

OTHER (MG/L)

NH_3	
Cl_2	
O&G	
TOC	
As	

pH	
SG	

H_2O SOLUBLE IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{6+}	
Cr^{6+}/Cr Tot	

CN ANALYSIS
(Units)
MG/KG ____
MG/L ____

CN SPOT	

DISTILLATION

TOTAL	993.0
NON-AMEN	55.9
AMENABLE	937.1

FIRE ASSAY
Wet Sample ____
Dry Sample ____
G DIGEST/250 ML

ACID	
H_2O	
QACID	

ACID #	
H_2O #	
QACID #	
ACID % IR	
H_2O % IR	
% MOIST.	

Comp of DRUM #s (1-3)

JKH 1-29-93

APPROVED BY _____ DATE: _____

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID M92-172-01 B1 LAB NO. 0293-022

SUBMITTED BY EW DATE/TIME 1-28-93.

DATA FILE NUMBER 032H

GA-MH.

PRETREATMENT

AS IS	✓
FILTERED	
pH <2	
H_2O =	

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

CN ANALYSIS (Units)
MG/KG ___
MG/L ___

CN SPOT	—

DISTILLATION

TOTAL	
NON-AMEN	
AMENABLE	—

FIRE ASSAY
Wet Sample ___
Dry Sample ✓
G DIGEST/250 ML

ACID	2.5 g
H_2O	10.0 g
QACID	

ACID %	7
H_2O %	17
QACID %	
ACID % IR	3.4
H_2O % IR	29.1
% MOIST.	8.7

Sample is soapy

ICP METALS (MG/L)

Ag	0.3
Al	53.6
As	0.0
B	0.0
Ca	82.6
Cd	0.0
Cr	44.5
Cu	296.4
Fe	33.9
Hg	12.8
Mn	0.8
Ni	13.7
P	200.0
Pb	0.0
Zn	877.8
Ba	0.0

OTHER (MG/L)

NH_3	
Cl_2	
O&G	
TOC	122.1
As	

pH	
SG	

H_2O SOL. IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{3+}	
Cr^{3+}/Cr TOT	

INITIAL PHASE:

___ Liquid

K Solid

Generator SJOB PLATING

Profile # M92-172-01

Tracking # 593-018

Drum # 1,3

REQ DIGEST
Sample #1

AA METALS (MG/L)

Hg	~~0.82 mg/kg~~ 0.34 mg/kg (JK)

ANALYZED BY JE DATE: ___

REVIEWED BY ___ DATE: ___

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID M92-172-01 LAB NO. 0193-398

SUBMITTED BY EW DATE/TIME 1-28-93

DATA FILE NUMBER 028B

PRETREATMENT

AS IS	X
FILTERED	
pH <2	
H_2O =	

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

CN ANALYSIS (Units)
MG/KG ___
MG/L ___

CN SPOT	3584.2

DISTILLATION

TOTAL	2336.0
NON-AMEN	79.0
AMENABLE	2257.0

FIRE ASSAY
Wet Sample ___
Dry Sample ___
G DIGEST/250 ML

ACID	
H_2O	
QACID	5.13 g

ACID %	
H_2O %	
QACID %	12
ACID % IR	
H_2O % IR	
% MOIST.	

ICP METALS (MG/L)

Ag	4.7
Al	118.1
Au	0.0
B	0.0
Ca	190.4
Cd	5.6
Cr	121.5
Cu	429.5
Fe	69.1
Mg	48.4
Mn	1.1
Ni	46.0
P	368.9
Pb	4.1
Zn	1975.2
Ba	0.0

OTHER (MG/L)

NH_3	
Cl_2	
O&G	
TOC	
As	

pH	
SG	

H_2O SOL. IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{+3}	
Cr^{+7} Cr TOC	

INITIAL PHASE:

___ Liquid

X Solid

Generator SJOB PLATING

Profile # M92-172-01

Tracking # 593-018

Drum # 1,3

QUICK DIGEST Sample #1

AA METALS (MG/L)

EW

~~Hg~~	

ANALYZED BY JK DATE: 1-28-93

APPROVED BY: ___ DATE: ___

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

WOLE ID 593-018-1 LAB NO. 0193-405

SUBMITTED BY EW DATE/TIME 1-28-93

DATA FILE NUMBER

PRETREATMENT	
AS IS	
FILTERED	
pH <2	
H_2O =	

ICP METALS (MG/L)	
Ag	
Al	
Au	
B	
Ca	
Cd	
Cr	
Cu	
Fe	
Mg	
Mn	
Ni	
P	
Pb	
Zn	
Ba	

AA METALS (MG/L)	

AA H_2O CATIONS (MG/L)	
Na^+	
K^+	

OTHER (MG/L)	
NH_3	
Cl_2	
O&G	
TOC	
As	
pH	
SG	

H_2O SOL. IONS (MG/L)	
Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
CN^-	
CN^- TCN Tot	

CN ANALYSIS (Units) MG/KG ___ MG/L ___	
CN SPOT	200.0
DISTILLATION	
TOTAL	
NON-AMEN	
AMENABLE	

FIRE ASSAY Wet Sample ___ Dry Sample ___ G DIGEST/250 ML	
ACID	
H_2O	
QACID	

ACID %	
H_2O %	
QACID %	
ACID % IR	
H_2O % IR	
% MOIST.	

INITIAL PHASE:

___ Liquid

X Solid

Generator SJOB

Profile # ___

Tracking # 593-018

Drum # 1,3

$Fe(CN)_6$

5.58/100ml (3,584.2 ppm)

ANALYZED BY SK DATE: 1-28

APPROVED BY ___ DATE: ___

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID: M92-172-01 B1 LAB NO. 0293-023

SUBMITTED BY: EW DATE/TIME: 1-28-93.

DATA FILE NUMBER: 032H

GA-MH

PRETREATMENT	
AS IS	✓
FILTERED	
pH <2	
H_2O =	

AA H_2O CATIONS (MG/L)	
Na^+	
K^+	

CN ANALYSIS (Units)	
MG/KG	
MG/L	
CN SPOT	—

DISTILLATION	
TOTAL	
NON-AMEN	
AMENABLE	—

FIRE ASSAY
Wet Sample ___
Dry Sample ✓
G DIGEST/250 ML

ACID	2.5 g
H_2O	10.0 g
QACID	

ACID %	8
H_2O %	18
QACID %	
ACID % IR	20.1
H_2O % IR	66.3
% MOIST.	18.1

ICP METALS (MG/L)	
Ag	0.0
Al	14.9
Au	0.0
B	28.3
Ca	580.1
Cd	0.0
Cr	86.6
Cu	628.1
Fe	98.1
Hg	92.8
Mn	0.0
Ni	194.2
P	434.1
Pb	102.3
Zn	43.9
Ba	0.0

OTHER (MG/L)	
NH_3	
Cl_2	
O&G	
TOC	2793
As	

pH	
SG	

H_2O SOL. IONS (MG/L)	
Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{2+}	
Cr^{+7} Cr Tot	

INITIAL PHASE:
___ Liquid
X Solid

Generator: SJOB PLATING
Profile #: M92-172-01
Tracking #: S93-018
Drum #: 2 Sample #2

REQ DIGEST

AA METALS (MG/L)	
Hg	~~0.87 mg/kg~~ 0.28 mg/Kg

ANALYZED BY: [signature] DATE: ___

APPROVED BY: ___ DATE: ___

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID M92-172-01 LAB NO. 8193-398

SUBMITTED BY EW DATE/TIME 1-28-93

DATA FILE NUMBER

PRETREATMENT

AS IS	
FILTERED	
pH <2	
H_2O_2	

ICP METALS (MG/L)

Ag	0.1
Al	22.9
Au	0.0
B	110.8
Ca	846.9
Cd	3.2
Cr	189.9
Cu	914.1
Fe	108.2
Hg	150.6
Mn	1.6
Ni	416.4
P	843.1
Pb	291.3
Zn	91.7
Ba	0.0

AA METALS (MG/L)

~~Mg~~	

EW

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

OTHER (MG/L)

NH_3	
Cl_2	
O&G	
TOC	
As	

pH	
SG	

H_2O SOL. IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
CN^-	
CN^- TOC	

CN ANALYSIS (Units)

MG/KG ___
MG/L ___

CN SPOT	4/274

DISTILLATION

TOTAL	
NON-AMEN	
AMENABLE	

INITIAL PHASE:

___ Liquid

X Solid

Generator SJOB PLATING

Profile # M92-172-01

Tracking # 593-018

Drum # 2 Sample #5

FIRE ASSAY

Wet Sample ___
Dry Sample ___
G DIGEST/250 ML

ACID	
H_2O	
QACID	5.00 g

ACID %	
H_2O %	
QACID %	22.
ACID % IR	
H_2O % IR	
% MOIST.	

QUICK DIGEST

Sample contains wire, springs, plastic, cardboard, metal pieces, wood

ANALYZED BY JK/SK. DATE: 1-28-93

APPROVED BY ___ DATE: ___

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID S93-018 2 LAB NO. 0193-407

SUBMITTED BY EWS DATE/TIME 1-28-93

DATA FILE NUMBER

PRETREATMENT	
AS IS	
FILTERED	
pH <2	
H_2O =	

AA H_2O CATIONS (MG/L)	
Na^+	
K^+	

CN ANALYSIS (Units) MG/KG ___ MG/L ___	
CN SPOT	353.9

DISTILLATION	
TOTAL	
NON-AMEN	
AMENABLE	

FIRE ASSAY Wet Sample ___ Dry Sample ___ G DIGEST/250 ML	
ACID	
H_2O	
QACID	

ACID %	
H_2O %	
QACID %	
ACID % IR	
H_2O % IR	
% MOIST.	

ICP METALS (MG/L)	
Ag	
Al	
Au	
B	
Ca	
Cd	
Cr	
Cu	
Fe	
Hg	
Mn	
Ni	
P	
Pb	
Zn	
Ba	

OTHER (MG/L)	
NH_3	
Cl_2	
O&G	
TOC	
As	

pH	
SG	

H_2O SOL. IONS (MG/L)	
Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{3+}	
Cr^{+7} Cr TOT	

AA METALS (MG/L)	

INITIAL PHASE:

___ Liquid

X Solid

Generator SJOB

Profile # ___

Tracking # S93-018

Drum # 2

$Fe(CN)_6$

8.28/100 ml (4,274.1 ppm)

ANALYZED BY SK DATE: 1/28

APPROVED BY ___ DATE: ___

ANALYTICAL LAB REQUEST FOR ANALYSIS

SAMPLE ID S93-018 Comp #1-3 LAB NO. 0293-183

SUBMITTED BY JK. DATE/TIME 2-9-93

DATA FILE NUMBER

PRETREATMENT

AS IS	
FILTERED	
pH <2	
H_2O_2	

ICP METALS (MG/L)

Ag	
Al	
Au	
B	
Ca	
Cd	
Cr	
Cu	
Fe	
Mg	
Mn	
Ni	
P	
Pb	
Zn	

AA METALS (MG/L)

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

OTHER (MG/L)

NH_3	
Cl_2	
O&G	
TOC	
As	

pH	
SG	

H_2O SOLUBLE IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{6+}	
Cr^{6+}/Cr Tot	

CN ANALYSIS
(Units)
MG/KG X
MG/L

CN SPOT	

DISTILLATION

TOTAL	732.0
NON-AMEN	
~~AMENABLE~~	JK

Blank 0.09

Spike 88.5% recovery.

Corrected = 827.1

FIRE ASSAY
Wet Sample
Dry Sample
G DIGEST/250 ML

ACID	
H_2O	
QACID	

ACID #	
H_2O #	
QACID #	
ACID % IR	
H_2O % IR	
% MOIST.	

ANALYZED BY J.K. DATE: 2-9-93

APPROVED BY DATE:

ETICAM Laboratory Department Quality Control Report
Spike Analysis

Date Submitted 2-9-93
Sample Matrix Solid
Batch/Tracking # S93-018
Units mg/L

Sample ID # S93-018 #1-3
Lab ID # 0293-183
Duplicate ID #
Lab ID #

Analyte	Add	Sample	Spike	%
Ag				
Al				
Au				
B				
Ba				
Bi				
Ca				
Cd				
Co				
Cr				
Cu				
Fe				
Mg				
Mn				
Mo				
Ni				
P				
Pb				
Sb				
Sn				
Ti				
V				
W				
Zn				

Analyte	Add	Sample	Spike	%
As				
Cl^-				
Cl_2				
Cn(S)				
Cn(T)	15.0 mg/L	11.07	24.35	88.5%
Cn(A)				
Cr^{6+}				
F^-				
$FeCN^{4+}$				
H_2O_2				
K^+				
Na^+				
NH_3				
NO_3^-				
NO_2^-				
O&G				
pH				
SG				
SO_4^{2-}				
TOC				
CN Blank = 0.09				

1.c)

SLUDGE MARKETING REPORT

M-LOG: (92)-(175)-(01)

PROJECTED QUANTITY: 4 Drums

CYANIDE (Y/N): 38.4

COLOR: BRN

FREE LIQUID: ND

COMPANY: 550B PLATING

DATE & TIME: 12-11-92

GWP SUMMARY: Cu, Ni

WASTE CODE:

% MOISTURE: 19.7

LIQUID DISPLACEMENT 1.818

pH ~~9.00~~ 9.0

*ALL VALUES ARE BASED UPON DRY WT.

NCS - HIGH - 4 Drums

	FREE LIQUID	FILTRATE	FILTER CAKE	* % BY WEIGHT
Ag			0.9	<0.01
Al			13.3	0.13
As				
Au			0.0	0.0
B			5.5	0.06
Ba				
Ca			767.7	7.68
Cd			0.0	0.0
Cl				
Cr			228.1	2.28
Cu			326.3	3.26
Fe				
Hg				
K				
Mg			364.7	3.65
Na				
Ni			536.5	5.37
NO3				
Pb			552.1	5.52
PO4			271.3	2.71
Se				
Sn				
SiO2				
SO4			25.9	0.26
Zn				
S.G.			475.0	1.19
TOC				
NH3				
CN				

Hg = 6.8 ppb

Se =

Acid IR 12.3%

H_2O IR 75.1%

Mixed Metal Content

11,875 ppm = TOC

NA - Not Analyzed

ND - None Detected

TESTING PERFORMED BY:

REVIEWED BY: M Karlen 12/22/92

1/29/91

ETICAM

2095 Newlands Drive East, Fernley, Nevada 89408
1-800-648-9931

GENERATOR'S WASTE MATERIAL PROFILE SHEET

PROFILE NUMBER
LOG #
DATE RECEIVED IN LAB

GENERAL INFORMATION

GENERATOR NAME: U.S. EPA - REGION 9 / SSOB PLATING
FACILITY ADDRESS: 612 MARTIN LUTHER KING BLVD. LAS VEGAS, NV

TRANSPORTER:
TRANSPORTER PHONE:
GENERATOR USEPA I.D. NVD982488793
GENERATOR STATE I.D.
CUSTOMER NAME: CET ENVIRONMENTAL
ADDRESS: 9706 4TH NE, SUITE 101 SEATTLE, WA 98115

TECHNICAL CONTACT: JEFF WEBB TITLE
NAME OF WASTE: NCS - HIGH PHONE (206) 525-9168
PROCESS GENERATING WASTE: SUPERFUND CLEAN-UP @ METAL PLATING SHOP

B. PHYSICAL CHARACTERISTICS OF WASTE

COLOR: VARIES

VISCOSITY: [X] HIGH [ ] MEDIUM [ ] LOW

ODOR: [X] NONE [ ] MILD [ ] STRONG DESCRIBE

PHYSICAL STATE AT 70° F: [X] SOLID [ ] SEMI-SOLID [ ] LIQUID [X] POWER

LAYERS: [ ] MULTIBAVERED [ ] BILATERED [ ] SINGLE-PHASED

FREE LIQUIDS [ ] YES [ ] NO VOLUME ____ %

pH: [ ] < 2 [X] 7.1 - 10 [ ] N/A [ ] 2 - 4 [ ] 10.1 - 12.5 [X] 4.1 - 6.9 [ ] >12.5 [X] 7 [ ] EXACT

SPECIFIC GRAVITY: [ ] <.8 [ ] 1.3 - 1.4 [ ] .8 - 1.0 [ ] 1.5 - 1.7 [X] 1.1 - 1.2 [ ] >1.7 [ ] EXACT

FLASH POINT: [ ] <70°F [ ] >200°F [ ] CLOSED CUP [ ] 70°F - 100°F [ ] NO FLASH [ ] OPEN CUP [ ] 101°F - 139°F [ ] EXACT [ ] 140°F - 200°F

C. CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

TOTAL ORGANIC CARBON	(17)%
POWDERS / PRECIPITATES W/ METALS	(50 - 60)%
	(~~100~~)%
	( )%
Total Heavy Metals	(0 - 10)%
H_2O	(22)%
	( )%
	( )%

D. METALS [ ] TOTAL (PPM) [X] EPA EXTRACTION PROCEDURE (mg/L)

GOLD (Au)
IRON (Fe)
CADMIUM (Cd) .6
CHROMIUM (Cr) .65
MERCURY (Hg) .007
LEAD (Pb) 2.5
CHROMIUM HEX (Cr + 6) ND
ARSENIC (As) ND
BARIUM (Ba) ND
TIN (Sn)
SILVER (Ag) ND
COPPER (Cu) 58.9
NICKEL (Ni) 224
ZINC (Zn)
SELENIUM (Se) .008
BORON (B0)
OTHER(S)

E. OTHER COMPONENTS - TOTAL (PPM)

CYANIDES < 100
SULFIDES
CHLORINED SOLVENTS
PCB'S
PHENOLICS

F. SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL ? [ ] YES [X] NO
PROPER SHIPPING NAME NON HAZARDOUS WASTE, SOLID
HAZARDOUS CLASS ____ I.D. NO. ____ R.Q. ____
METHOD OF SHIPMENT [ ] BULK LIQUID [ ] BULK SOLID [X] DRUM (TYPE / SIZE) 17H / 55
ANTICIPATED VOLUME: ____ GALS. ____ CUBIC YARDS 4 OTHER DRUMS
PER: [X] ONE TIME [ ] WEEK [ ] MONTH [ ] QUARTER [ ] YEAR

G. HAZARDOUS CHARACTERISTICS

REACTIVITY: [X] NONE [ ] PYROPHORIC [ ] SHOCK SENSITIVE [ ] EXPLOSIVE [ ] WATER REACTIVE [ ] OTHER

OTHER HAZARDOUS CHARACTERISTICS [X] NONE [ ] RADIOACTIVE [ ] ETIOLOGICAL [ ] PESTICIDE MANUFACTURING WASTE [ ] OTHER

US EPA HAZARDOUS WASTE? [ ] YES [X] NO
US EPA HAZARDOUS CODE(S)
STATE HAZARDOUS WASTE? [ ] YES [ ] NO
STATE CODE(S)

H. SPECIAL HANDLING INFORMATION

SEE ATTACHED ANALYTICAL

[X] ADDITIONAL PAGE(S) ATTACHED

I CERTIFY THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED AND ALL ATTACHED DOCUMENTS, AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATLY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THAT THE SUBMITTED INFORMATION IS TRUE, AND COMPLETE.

AUTHORIZED SIGNATURE — TITLE: Federal On-Scene Coordinator — DATE: 12-4-92

ETICAM
LAND DISPOSAL RESTRICTION NOTIFICATION

GENERATOR: U.S. EPA EPA ID #: NVD 982488793 MANIFEST #:

Please list EPA Waste Codes shown on manifest under appropriate line item box. ----------> 11a 11b 11c 11d

Please check all items below that apply in the column below each manifest line item.

		TREATMENT REFERENCE NUMBERS	11a	11b	11c	11d
D002	Corrosive Characteristic Waste					
D003	Reactive Characteristic Waste					
D006	Cadmium - EP Toxic	1				
D007	Chromium (total) - EP Toxic	2				
D008	Lead - EP Toxic	3				
D011	Silver - EP Toxic	4				
F006	Electroplating Treatment Sludges	5				
F007	Spent Cyanide Plating Bath Solutions	5				
F008	Cyanide Plating Bath Residue	5				
F009	Spent Cyanide Stripping/Cleaning Bath Solutions	5				
F011	Spent Cyanide Solutions From Salt Bath Pot Cleaning	5				
F012	Quenching Wastewater Treatment Sludges From Metal Heat Operations Where Cyanides Are Used In The Process.					
F019	Wastewater Treatment Sludges From Chemical Conversion Coating Of Aluminum	6				

Taken from Federal Register, Vol. 55, No. 106; Friday, June 1, 1990; Rules & Regulations

TREATMENT REFERENCE No.	WASTE CODE	REGULATED HAZARDOUS CONSTITUENTS	TREATMENT STANDARD
1	D006	Cadmium	1.0
2	D007	Chromium (total)	5.0
3	D008	Lead	5.0
4	D011	Silver	5.0
5	F006, F007	Cadmium	0.066
	F008, F009	Chromium (total)	5.2
	F011, F012	Lead	0.51
		Nickel	0.32
		Silver	0.072
6	F019	Chromium (total)	5.2

A.___ The wastes identified above are subject to the land disposal restrictions of 40 CFR part 268. The waste does not meet the treatment standard specified in Part 268 Subpart D or do not meet the prohibitions specified in 268.32 or RCRA Section 3004(d). The treatment standards or prohibitions levels applicable to each waste is noted above.

B.___ The waste identified above is not subject to the land disposal restrictions. (This usually applies only to non-RCRA waste.)

C.___ The wastes identified above are restricted waste that have been exempted from the land disposal prohibitions of 40 CFR Part 268 for the following reasons (Check all that apply). . .

___ a. A case-by-case extension for the waste has been granted under section 268.5.

___ b. A "no-migration" petition has been granted for the wastes and disposal facility under Section 286.6.

___ c. The wastes are subject to a nationwide extension of the effective dates.

____I certify that as an authorized representative of the Generator named above, all information submitted in this and all associated documents is true and correct to the best of my knowledge.

____I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibilities of fine and imprisonment.

PRINTED NAME: Richard Van Martyn DATE: 12-4-92

SIGNATURE: [signature] TITLE: OSC

ANAI ICAL LAB REQUEST FOR ANALY
MARKETING SAMPLE

SAMPLE ID M92-175-01

LAB NO. 1292 343

UBMITTED BY Jeff

DATE/TIME 12-11-92

DATA FILE NUMBER 350 B

GH - DT. Hanks

PRETREATMENT

AS IS	X
FILTERED	
pH <2	
H_2O_2	

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

CN ANALYSIS (Units)
MG/KG ___
MG/L ___

CN SPOT	

DISTILLATION

TOTAL	38.4
NON-AMEN	
AMENABLE	

FIRE ASSAY
Wet Sample ___
Dry Sample ✓
G DIGEST/250 ML

ACID	2.5 g
H_2O	10.0 g
QACID	

ACID #	3
H_2O #	13
QACID #	
ACID % IR	12.3
H_2O % IR	75.1
% MOIST.	19.7

ICP METALS (MG/L)

Ag	0.9
Al	13.3
Au	0.0
B	5.5
Ca	767.7
Cd	0.0
Cr	228.1
Cu	326.3
Fe	124.3
Mg	364.7
Mn	0.0
Ni	536.5
P	271.3
Pb	552.1
Zn	25.9

OTHER (MG/L)

NH_3	
Cl_2	
O&G	
TOC	475.0
As	

pH	
SG	

H_2O SOL. IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{3+}	
Cr^6/Cr Tot	

INITIAL PHASE:

___ Liquid

X Solid

difficult to filter

Generator SJOB PLATING

Profile # M92-175-01

TCLP:
Hg:
Se:

AA METALS (MG/L)

Hg	See TCLP

ANALYZED BY SK/JE Ø DATE: 12/15

APPROVED BY ___ DATE: ___

ANALYTICAL LAB REQUEST
LAND BAN ANALYSIS

Sample ID M92-175-01

ETICAM Lab # 1292-232

Submitted by [illegible]

Date / Time 12-11-92

Data File # _____

TCLP DATA

pH of sample with water	7.9
pH of sample with HCl	6.5
Extraction Fluid used	2
Sample weight	50.0 gr
mL of Fluid	1L
Bottle Number	3
Start Time	1500

CN IN SAMPLE (mg/Kg)

Total	
Non-Amen	
Amenable	

OUTSIDE LAB

Name	
Date	
COC #	

METALS BY ICP (mg/L)

Ag	0.161
B	70.608
Ba	0.191
Cd	0.712
Cr	24.864
Cu	26.924
Fe	0.381
Ni	20.769
Pb	0.444
Zn	0.337

TCLP:

Se <0.2 (Method 1010)

Hg 6.8 µg/L (ppb)

ANALYZED BY _____ DATE _____

ANRESCO
INCORPORATED
ANALYSIS RESEARCH

1370 Van Dyke Ave., S.F., CA 94124
Tel: (415) 822-1100 Fax: (415) 822-6615
790 Basin Street, #2, San Pedro, CA 90731
Tel: (310) 833-4598 Fax: (310) 833-1585
Toll Free - 800-359-0920

07 November 1992

CET Environmental Services
9706 4th Ave., NE, Suite 101
Seattle, WA. 98115

File No. 1092384

Re: Fifteen samples for analysis: Project Name: SJOB
Job #9001-029 Chain of Custody: 9 12817

(PO # 51272)

Received: 10/29/92

RESULTS

Total Organic Carbon :

Estimate of T.O.C.* using gravimetric analysis for a soil sample:

Calculation:

% T.O.C. = 100 - Moisture - ash

Results:

NCS - Hi	Moisture :	22.02 %
	Ash :	60.98 %
	Estimated T.O.C. :	17.00 %

*T.O.C. is Total Organic Carbon

Oil & Grease (SW-846-9070)

Results:

NFL	Sample:	38.3 %
	Duplicate:	39.3 %

(Continued...)

File No. 1092384

RCRA Total Metals (EPA 3050 digest)

mg/kg (ppm)

	Cr	Ba	Cu	Pb	Cd	Ni	Ag	Cr^{+6}
CNL	102	ND	12,800	34.7	3080	83.0	27.5	ND
AOL	17,300	ND	16,600	26.9	90.9	5,520	ND	230
BOL	122	ND	300	15.4	3.85	36.1	ND	7.8
BL	67.6	ND	300	18.8	2.91	58.6	ND	ND
NCL.HI	1,120	ND	259	26.9	2.92	3,280	ND	25.2

IV. TCLP EXTRACTS:

mg/L (ppm)

	Cr	Ba	Cu	Pb	Cd	Ni	Ag	Cr^{+6}
CNS	10.8	ND	12,400	3.7	36	49.3	400	0.13
AOS	3.5	ND	742	4.3	6.3	45.8	ND	ND
BS	145	ND	61.5	2.5	ND	24.3	ND	3.9
NCL-Lo	ND	ND	52.8	2.4	ND	17.9	ND	ND
NCS-Hi	0.65	ND	58.9	2.5	0.60	224	ND	ND
NCS-Lo	0.10	ND	56.8	2.4	ND	5.8	ND	51.6
NCS-Soil	22.4	ND	49.7	2.2	ND	5.1	ND	1.7
NFL	1.1	ND	53.3	2.6	ND	5.6	ND	ND
A26	4.3	ND	45.9	2.9	ND	16.7	ND	ND
A88	8,960	ND	61.0	4.4	0.40	5.5	ND	5,200
Detection Limit:	0.05	5	0.05	0.10	0.01	1.0	0.1	0.05

% Spike Recovery

	Cr	Ba	Cu	Pb	Cd	Ni	Ag	Cr^{+6}
Spike	85	85	95	95	93	92	85	80%
Spike Dup.	85	87	95	95	94	90	85	80%

Methods:

Chromium (total) 7190, (hexavalent) 7195
Barium 7080
Lead 7420
Nickel 7520
Copper 7210
Cadmium 7130
Silver 7760

(Continued...)

File No. 1092384

RCRA Total Metals (EPA 3050 digest)

Arsenic - EPA 7061

	mg/kg (ppm)
CNL	ND*
AOL	1.69
BOL	0.468
BL	0.492
NCL-Hi	0.492
Blank	ND*

*Minimum Detection Limit is ca. 0.10 ppm

Note: Matrix Spike and matrix spike duplicate results are with TCLP results.

TCLP Extracts

Arsenic - EPA 7061

	mg/L (ppm)
CNS	0.247
AOS	0.022
BS	0.104
NCL-Lo	0.004
NCS-Hi	ND*
NCS-Lo	0.003
NCS-Soil	0.004
NFL	ND*
A26	ND*
A88	ND*
Blank	ND*
Spike 0.05 ppm (NFL)	0.046
	91.4% recovery
spike duplicate	0.049
	98.0% recovery

*Minimum Detection Limit is ca. 0.002 ppm (2 ppb)

(Continued...)

File No. 1092384

RCRA Total Metals (EPA 3050 digest)

Selenium - EPA 7741

	mg/kg (ppm)
CNL	0.723
AOL	ND*
BOL	0.250
BL	0.375
NCL-Hi	0.643
Blank	ND*

*Minimum Detection Limit is ca. 0.25 ppm

Note: Matrix Spike and matrix spike duplicate results are with TCLP results.

TCLP Extracts

~~Arsenic~~ Selenium - EPA 7741

	mg/L (ppm)
CNS	0.009
AOS	0.045
BS	0.006
NCL-Lo	0.007
NCS-Hi	0.008
NCS-Lo	0.041
NCS-Soil	0.012
NFL	0.006
A26	0.025
A88	ND*
Blank	ND*
Spike 0.10 ppm (NFL)	0.071 65% recovery
spike duplicate	0.090 84% recovery

*Minimum Detection Limit is ca. 0.005 ppm (5 ppb)

(Continued...)

RCRA Total Metals (EPA 3050 digest)

Mercury - EPA 7470

	mg/kg (ppm)
CNL	ND*
AOL	ND*
BOL	0.27
BL	ND
NCL-Hi	ND
Blank	ND*

*Minimum Detection Limit is ca. 0.25 ppm

Note: Matrix Spike and matrix spike duplicate results are with TCLP results.

TCLP Extracts

Mercury - EPA 7470

	mg/L (ppm)
CNS	0.005
AOS	ND*
BS	0.030
NCL-Lo	0.010
NCS-Hi	0.007
NCS-Lo	0.010
NCS-Soil	0.010
NFL	ND*
A26	0.006
A88	ND*
Blank	ND*
Spike 0.1 ppm (NFL)	0.121 121% recovery
spike duplicate	0.189 94.5% recovery

*Minimum Detection Limit is ca. 0.005 ppm (5 ppb)

(Continued..)

SLUDGE
WASTE RECEIVING FORM

GENERATOR STOB-PLATING

EPA ID # NVD982488793

M-LOG # 92-175-01 #1

TRACKING # S93-020

MANIFEST # 90029 288

DATE/TIME 1-27-93

DRUM #'s 2

RECEIVING AREA

PRESCREEN		TRUCK	PRESCREEN		TRUCK
pH	9.06	7.33	Density	1.818	1.285
Color	BRN	BRN/YELLOW	# Phases	1	1
TOC mg/l	11,875.0	11,315.0	% Solids	100.0	100.0
Free Liquid	ND	ND	Fe % wt.	NA	1.86
Ag % wt.	<0.01	0.0	P % wt.	2.71	2.94
As % wt.	NA	NA	Ni % wt.	5.37	2.31
Cd % wt.	<0.01	0.0	Pb % wt.	5.52	0.01
Cr % wt.	2.28	2.28	Sn % wt.	NA	NA
Cu % wt.	3.26	4.08	Zn % wt.	0.26	0.12
CN mg/l	38.4	~~2669.4~~ 501.2	% Moisture	19.7	37.5

NEEDS Se

% wt. values are based upon dry analysis.

☐ NEW TREATABILITY

☐ SATISFIED MARKETING CRITERIA

☐ PRICE INCREASE

☐ DRUM HANDLING

☒ COST FEASIBILITY STUDY NECESSARY

Approved by: M Lawler

Date/Time 2/24/93

Received by:

Date/Time

Manifest volume

Actual volume

# of Containers

Sample fee

Customer #

Customer PO#

Drum

1 20 91

SLUDGE TRUCK REPORT

TRACKING: S93-020

A-LOG: (92)-(175)-(01) #1

EPA ID No.: NVD 982488793

MANIFEST #: 90029 28 b

MANIFEST VOLUME:

RECEIVING AREA:

COMPANY: SJOB PLATING

DATE & TIME: 1-28-93

GWP SUMMARY:

WASTE CODE: ~~37.5~~ NE

% MOISTURE: 37.5 pH: 7.33

CYANIDE (Y/N): ~~2667.4~~ ppm 501.2

COLOR: Ben/yellow

*ALL VALUES ARE BASED UPON DRY WT.

LIQUID DISPLACEMENT 1.285

QUICK DIGEST ☐

REGULAR DIGEST ☑

	FREE LIQUID	FILTRATE	FILTER CAKE	* % BY WEIGHT
Ag			0.0	0.0
Al			7.5	0.08
As				
Au			0.0	0.0
B			0.0	0.0
Ba			NA 0.0	NA 0.0
Ca			521.2	5.21
Cd			0.0	0.0
Cl				
Cr			228.2	2.28
Cu			407.7	4.08
Fe			186.3	1.86
Hg			NA	NA
K				
Mg			369.1	3.69
Na				
Ni			230.6	2.31
NO3				
P			293.9	2.94
Pb			1.1	0.01
Se			NA	NA
Sn			63.3	0.63
SiO2				
SO4				
Zn			12.2	0.12
S.G.				
TOC			452.6	1.13
NH3				
CN				

Drm #2

Acid IR 7.1%
H_2O IR 56.9%

11,315.0 ppm = TOC

NA - Not Analyzed
ND - None Detected

TESTING PERFORMED BY:

REVIEWED BY: M Kaelin

1/30/91

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID M92-175-01 LAB NO. 0293 017

SUBMITTED BY EW DATE/TIME 1-18-93

DATA FILE NUMBER 0324

PRETREATMENT

AS IS	✓
FILTERED	
pH <2	
H_2O =	

AA H_2O CATIONS (MG/L)

Na^+	
K^+	--

CN ANALYSIS (Units)
MG/KG ___
MG/L ___

CN SPOT	—

DISTILLATION

TOTAL	
NON-AMEN	-
AMENABLE	

FIRE ASSAY
Wet Sample ___
Dry Sample ✓
G DIGEST/250 ML

ACID	2.5 g
H_2O	10.0 g
QACID	

ACID %	2
H_2O %	02
QACID %	
ACID % IR	7.1
H_2O % IR	58.9
% MOIST.	37.5

ICP METALS (MG/L)

Ag	0.0
Al	7.5
Au	0.0
B	0.0
Ca	521.2
Cd	0.0
Cr	228.2
Cu	407.7
Fe	186.3
Hg	369.1
Mn	0.0
Ni	230.6
P	293.9
Pb	1.1
Zn	12.2
Ba	0.0

OTHER (MG/L)

NH_3	
Cl_2	
O&G	
TOC	452.6
As	

pH	
SG	

H_2O SOL. IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{--}	
PO_4^{---}	
Cr^{++}	0.3
Cr^{+7} Cr Tot	

AA METALS (MG/L)

INITIAL PHASE:

___ Liquid

X Solid

Generator SJOB PLATING

Profile # M92-175-01

Tracking # 593-020

Drum # 2 Sample #2

REG DIGEST

ANALYZED BY JC/JK/G.A DATE: ___

APPROVED BY ___ DATE: ___

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID M92-175-01 LAB NO [illegible]

SUBMITTED BY EW DATE/TIME 1-28-93

DATA FILE NUMBER 028B

PRETREATMENT

AS IS	X
FILTERED	
pH <2	
H_2O =	

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

CN ANALYSIS (Units) MG/KG ___ MG/L ___

CN SPOT	500.8
DISTILLATION	
TOTAL	2669.4
NON-AMEN	
AMENABLE	

see Analytical report 0293-184 for CN distillation

FIRE ASSAY Wet Sample ___ Dry Sample ___ G DIGEST/250 ML

ACID	
H_2O	
QACID	5.0 g

ACID %	
H_2O %	
QACID %	19
ACID % IR	
H_2O % IR	
% MOIST.	

Wood & plastic debris in sample

ICP METALS (MG/L)

Ag	0.0
Al	10.6
Au	0.0
B	23.4
Ca	602.9
Cd	0.0
Cr	286.6
Cu	513.4
Fe	203.3
Hg	463.0
Mn	4.3
Ni	340.0
P	433.5
Pb	4.6
Zn	28.7
Ba	0.0

OTHER (MG/L)

NH_3	
Cl_2	
O&G	
TOC	
As	

pH	
SG	

H_2O SOL. IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{3+}	
Cr^{3+}/Cr Tot	

AA METALS (MG/L)

INITIAL PHASE:

___ Liquid

X Solid

Generator: SJOB PLATING

Profile #: M92-175-01

Tracking #: S93-028

Drum #: 2

QUICK DIGEST

ANALYZED BY: JKI DATE: 1-28-93

APPROVED BY: ___ DATE: ___

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID 593-020 2 LAB NO. 593-402

SUBMITTED BY EW DATE/TIME 7-28-93

DATA FILE NUMBER

PRETREATMENT	
AS IS	
FILTERED	
pH <2	
H_2O =	

AA H_2O CATIONS (MG/L)	
Na^+	
K^+	

CN ANALYSIS (Units)	
MG/KG	
MG/L	
CN SPOT	28.9
DISTILLATION	
TOTAL	
NON-AMEN	
AMENABLE	

FIRE ASSAY	
Wet Sample	
Dry Sample	
G DIGEST/250 ML	
ACID	
H_2O	
QACID	
ACID %	
H_2O %	
QACID %	
ACID % IR	
H_2O % IR	
% MOIST.	

ICP METALS (MG/L)	
Ag	
Al	
Au	
B	
Ca	
Cd	
Cr	
Cu	
Fe	
Hg	
Mn	
Ni	
P	
Pb	
Zn	
Ba	

OTHER (MG/L)	
NH_3	
Cl_2	
O&G	
TOC	
As	
pH	
SG	

H_2O SOL. IONS (MG/L)	
Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{+6}	
Cr^{+6}/Cr TOC	

AA METALS (MG/L)	

INITIAL PHASE:

___ Liquid

X Solid

Generator SJOB

Profile # ___

Tracking # 593-020

Drum # 2

$Fe(CN)_6$

5.77/100ml (500.8 ppm)

ANALYZED BY SK DATE: 1/28

APPROVED BY ___ DATE: ___

ANALYTICAL LAB REQUEST FOR ANALYSIS

AMPLE ID S92-020 DRM #2

LAB NO. 0293-184

SUBMITTED BY

DATE/TIME 2-9-93

DATA FILE NUMBER

PRETREATMENT

AS IS	
FILTERED	
pH <2	
H_2O_2	

ICP METALS (MG/L)

Ag	
Al	
Au	
B	
Ca	
Cd	
Cr	
Cu	
Fe	
Mg	
Mn	
Ni	
P	
Pb	
Zn	

AA METALS (MG/L)

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

OTHER (MG/L)

NH_3	
Cl_2	
O&G	
TOC	
As	

pH	
SG	

H_2O SOLUBLE IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{6+}	
Cr^{6+}/Cr Tot	

CN ANALYSIS

(Units)

MG/KG ✓

MG/L

CN SPOT	

DISTILLATION

TOTAL	501.2
NON-AMEN	
AMENABLE	

FIRE ASSAY

Wet Sample

Dry Sample

G DIGEST/250 ML

ACID	
H_2O	
QACID	

ACID #	
H_2O #	
QACID #	
ACID % IR	
H_2O % IR	
% MOIST.	

ANALYZED BY JK/JE DATE: 2-9-93

APPROVED BY DATE:

SLUDGE
WASTE RECEIVING FORM

GENERATOR SJUB PLATING

M-LOG # 92-175-01 #1

MANIFEST # 90029 28B

DRUM #'s T

EPA ID # NVD982498793

TRACKING # S93-020

DATE/TIME 1-28-93

RECEIVING AREA

PRESCREEN		TRUCK	PRESCREEN		TRUCK
pH	9.06	9.14	Density	1.818	2.617
Color	BRN	GRN	# Phases	1	1
TOC mg/l	11,575.0	1487.5 ppm	% Solids	100.0	100.0
Free Liquid	ND	ND	Fe % wt.	NA	0.0
Ag % wt.	<0.01	0.0	P % wt.	2.71	43.61
As % wt.	NA	NA	Ni % wt.	5.37	0.0
Cd % wt.	<0.01	0.0	Pb % wt.	5.52	0.0
Cr % wt.	2.25	0.0	Sn % wt.	NA	0.0
Cu % wt.	3.26	63.21	Zn % wt.	0.26	0.16
CN mg/l	38.4	155,362.5	% Moisture	19.7	0.4

NEEDS Se

% wt. values are based upon dry analysis.

☑ NEW TREATABILITY

☐ SATISFIED MARKETING CRITERIA

☐ PRICE INCREASE

☐

☐ DRUM HANDLING

☒ COST FEASIBILITY STUDY NECESSARY

Approved by: [illegible] Date/Time

Received by: Date/Time

Manifest volume Actual volume

# of Containers Sample #

[illegible]

TRUCK SLUDGE TREATMENT

COMPANY: SJOB

GI SUMMARY: CuCN

WASTE CODE: D003

COLOR LtGRN PHASES 1 pH 7 CN >155,000

ODOR — % SOLIDS 100 QUANTITY 1 DRUM

M-LOG: (93)-(012)-(01)

DATE RECEIVED: 1-28-93

TRACKING #: S93-020

EXPERIMENTAL DATA

(A) Vol. of H_2O= 20.0

(B) Wt. of Sample= 4.33g

(C) Final Vol.= 21.5mls

(D) B divided by (C-A)=

Specific GRAVITY= 2.41

TREATMENT STUDY

WT. of SAMPLE 4.33g VOL. of H_2O 100.0mls

BEGINNING VOLUME 101.8mls

		pH	RX	TEMP
1.	INITIAL VOL. 101.8ml NaOH 7.0 mb NaOH ~~60~~ 60.0mb	12.0	+600	60°C
2.	MgCl2 0.5g Na2S2O5 0.4g	12.0	+200	↓
3.	H2SO4 30.4 Metal 0.5g	2.5	+290	↓
4.	NaOH 8.1 mb Filter 7.17g	9.0	+100	40°C
5.	Na2S 0.37g Filter 0.93	9.3	-300	↓
6.				
7.				

FINAL VOLUME= 213.0 mls

VOL. USED FOR ANALYSIS=

FILTER CAKE WET= 28.26

FILTER CAKE DRY= 8.90g

% MOISTURE=

TSS (By Vol.)=

S.G. OF EFFLUENT= 1.13

TDS (By Wt.)= 18.2%

CHEMICAL	L/LB or Kg/LB	$/LB
NaOH	~~7.74~~ 6.29 L/LB	~~1.32~~ 1.13
[illegible]	[illegible]	[illegible]
Na2S	0.04 Kg/LB ~~0.05 Kg/LB~~ 0.05 Kg/LB	0.05 0.05
[illegible]	1.58	0.31
[illegible]	0.02	0.11

TESTING PERFORMED BY [signature] DATE

PROCESS CHEMIST [signature] DATE

CHEMICAL COST PER POUND $2.68

1/29/91

CuCN

TREATABILITY GENERATED MATERIAL PROJECTION

TRUCK SAMPLE

COMPANY: SJOB

TRACKING #: S93-020

~~S-LOG~~: M93-012-01

MANIFEST #: [illegible]

GWP SUMMARY: CuCN

MANIFEST VOLUME: 1 DRM

WASTE CODE: D003

EPA ID #: NYD 982488793

All information provided is based upon 1 ton (2,000 lbs.) of sludge.

Chemical Cost = $5,360.00

Volume displacement of sludge = 100 GALLONS

H_2O Requirement for treatment = 5555 GALS

Final volume after treatment = ~~7769 GALS~~ 11,830 GALLONS

Filter Cake After Treatability

Wet = 13,053 LBS

Dry = 4,110 LBS

% Moisture = 68.5%

Salt produced* = 20,234 LBS

*Assumption is made that final volume does not change with sludge removal.

[illegible]

5500

1200

2000

[illegible]

[illegible]

1/24/93

SLUDGE TRUCK REPORT

TRACKING: S93-020

M-LOG: (93)-(012)-(01)

EPA ID No.: NVD 982488793

MANIFEST #: 90029

MANIFEST VOLUME: 1 Cm

RECEIVING AREA:

COMPANY: SJCB PLATING

DATE & TIME: 1-28-93

GWP SUMMARY: Cu, Cd

WASTE CODE: D003

% MOISTURE: 0.4 pH: 8.14

CYANIDE (Y/N): 133,562.5 ppm

COLOR: GRN

*ALL VALUES ARE BASED UPON DRY WT.

LIQUID DISPLACEMENT 2.617

QUICK DIGEST ☐

REGULAR DIGEST ☒

	FREE LIQUID	FILTRATE	FILTER CAKE	* % BY WEIGHT
Ag			0.0	0.0
Al			0.0	0.0
As				
Au			0.0	0.0
B			0.0	0.0
Ba			NA 0.0	NA 0.0
Ca			0.0	0.0
Cd			0.0	0.0
Cl				
Cr			0.0	0.0
Cu			63.21.0	63.21
Fe			0.0	0.0
Hg			NA	NA
K				
Mg			0.0	0.0
Na				
Ni			0.0	0.0
NO3				
P			4361.0	43.61
Pb			0.0	0.0
Se			NA	NA
Sn			0.0	0.0
SiO2				
SO4			16.4	0.16
Zn				
S.G.			59.5	0.15
TOC				
NH3				
CN				

Acid IR ND
H_2O IR 99.2%

1487.5 ppm = TOC

NA - Not Analyzed
ND - None Detected

TESTING PERFORMED BY:

REVIEWED BY:

1/30/91

1-800-448-8831

GENERATOR'S WASTE MATERIAL PROFILE SHEET

PROFILE NUMBER
LOG #
DATE RECEIVED IN LAB

A. GENERAL INFORMATION

GENERATOR NAME: US EPA Region 9 / SFOB
FACILITY ADDRESS: 1012 N. Martin Luther King Blvd. Las Vegas NV.

TRANSPORTER: N C Chemical
TRANSPORTER PHONE:
GENERATOR USEPA I.D. NVD982148817

TECHNICAL CONTACT: Mike Taylor TITLE RM
NAME OF WASTE: Cyanide Solid. PHONE 702-647-4331
PROCESS GENERATING WASTE: Super Fund Cleanup Plating Shop.

GENERATOR STATE I.D.
CUSTOMER NAME: CET Environmental.
ADDRESS: 9306 4th Ave NE Seattle WA.

B. PHYSICAL CHARACTERISTICS OF WASTE

COLOR: VARIES.

ODOR: ☐ NONE ☐ MILD ☐ STRONG DESCRIBE

PHYSICAL STATE AT 70° F: ☐ SOLID ☐ SEMI-SOLID ☐ LIQUID ☐ POWDER

LAYERS: ☐ MULTILAYERED ☐ BILAYERED ☐ SINGLE-PHASED

FREE LIQUIDS: ☐ YES ☒ NO VOLUME

pH: ☐ <2 ☐ 2.0 - 4.0 ☐ 4.1 - 6.9 ☐ 7.0 - 10.0 ☐ 10.1 - 12.5 ☒ >12.5 ☐ EXACT

SPECIFIC GRAVITY: ☐ <.8 ☐ .8-1.0 ☐ 1.0-1.1 ☐ 1.1-1.2 ☐ EXACT ☐ 1.2-1.3 ☐ 1.3-1.5 ☐ 1.5-1.7 ☐ >1.7

FLASH POINT °C ____ °C/°C

TOTAL ORGANIC CONTENT (PPM) ____ ☐ % BY WEIGHT ☐ % BY VOLUME

C. CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

Total Cyanides.	(5-10) %
Cyanide Granuals, Powder FLAKES.	(100) %
Misc: Debris, Paper, Wood,	( ) %
Plastic.	(0-5) %
Copper	(15-25) %
	( ) %
	( ) %
	( ) %

D. METALS ☒ TOTAL (PPM) ☐ TCLP (mg/L)

ALUMINUM		IRON (Fe)	
ARSENIC (As)		LEAD (Pb)	
BARIUM (Ba)		MERCURY (Hg)	
BORON (B)		NICKEL (Ni)	
CADMIUM (Cd)		SELENIUM (Se)	
CHROMIUM (Cr)		SILVER (Ag)	
CHROMIUM HEX (Cr + 6)		TIN (Sn)	
COPPER (Cu)	200,000.	ZINC (Zn)	
GOLD (Au)		OTHER(S)	

E. OTHER COMPONENTS - TOTAL (PPM)

NITRATES ____ SULFIDES ____
CYANIDES 5-10 % OIL AND GREASE ____

F. SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL? ☒ YES ☐ NO
PROPER SHIPPING NAME Hazardous Waste Solid NOS.
HAZARDOUS CLASS 6.1 I.D. NO. UN 1588 P.G. II LB
METHOD OF SHIPMENT ☐ BULK LIQUID ☐ BULK SOLID ☒ DRUM (TYPE / SIZE) 55-G
ANTICIPATED VOLUME: 5-Drums. GALS. ____ CUBIC YARDS ____ OTHER ____
PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR

G. HAZARDOUS CHARACTERISTICS

REACTIVITY: ☐ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☐ OTHER

OTHER HAZARDOUS CHARACTERISTICS: ☐ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☐ OTHER

US EPA HAZARDOUS WASTE? ☒ YES ☐ NO
US EPA HAZARDOUS CODE(S) D003
STATE HAZARDOUS WASTE? ☐ YES ☐ NO
STATE CODE(S)

H. SPECIAL HANDLING INFORMATION

☐ ADDITIONAL PAGE(S) ATTACHED

I CERTIFY THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED AND ALL ATTACHED DOCUMENTS, AND THAT BASED ON MY INQUIRY OF those I ON/OUALIFIED IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THAT THE SUBMITTED INFORMATION IS TRUE AND COMPLETE.

AUTHORIZED SIGNATURE

U.S. EPA OSC
TITLE

1-29-93
DATE

LAND DISPOSAL RESTRICTION NOTIFICATION

GENERATOR: US EPA Region 9/Sodo Plating EPA ID #: NUD982458793 MANIFEST #: 90029

Please list EPA Waste Codes shown on manifest under appropriate line item box. ----------)

		TREATMENT REFERENCE NUMBERS	11a	11b	11c	11d	28 B
D002	Corrosive Characteristic Waste						D003
D003	Reactive Characteristic Waste						
D006	Cadmium - EP Toxic	1					
D007	Chromium (total) - EP Toxic	2					
D008	Lead - EP Toxic	3					
D011	Silver - EP Toxic	4					
F006	Electroplating Treatment Sludges	5					
F007	Spent Cyanide Plating Bath Solutions	5					
F008	Cyanide Plating Bath Residue	5					
F009	Spent Cyanide Stripping/Cleaning Bath Solutions	5					
F011	Spent Cyanide Solutions From Salt Bath Pot Cleaning	5					
F012	Quenching Wastewater Treatment Sludges From Metal Heat Operations Where Cyanides Are Used In The Process.						
F019	Wastewater Treatment Sludges From Chemical Conversion Coating Of Aluminum	5					

Taken From Federal Register, Vol. 55, No. 104; Friday, June 1, 1990: Rules & Regulations

TREATMENT REFERENCE No.	WASTE CODE	REGULATED HAZARDOUS CONSTITUENTS	TREATMENT STANDARD
1	D006	Cadmium	1.0
2	D007	Chromium (total)	5.0
3	D008	Lead	5.0
4	D011	Silver	5.0
5	F006, F007	Cadmium	0.066
	F008, F009	Chromium (total)	5.2
	F011, F012	Lead	3.51
		Nickel	0.32
		Silver	0.072
		Chromium (total)	5.2

A. ✓ The wastes identified above are subject to the land disposal restrictions of 40 CFR part 268. The waste does not meet the treatment standard specified in Part 268 Subpart D or does not meet the prohibitions specified in 268.32 or RCRA Section 3004(d). The treatment standards or prohibitions levels applicable to each waste is noted above.

B. __ The waste identified above is not subject to the land disposal restrictions. (This usually applies only to non-RCRA waste.)

C. __ The wastes identified above are restricted waste that have been exempted from the land disposal prohibitions of 40 CFR Part 268 for the following reasons (Check all that apply)...

__ a. A case-by-case extension for the waste has been granted under section 268.5.

__ b. A "no-migration" petition has been granted for the waste and disposal facility under Section 268.6.

__ c. The wastes are subject to a nationwide extension of the effective dates.

✓ I certify that as an authorized representative of the Generator named above, all information submitted in this and all associated documents are true and correct to the best of my knowledge.

✓ I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

PRINTED NAME: Richard Lin Martin

DATE: 1-29-93

EPA GSC

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID S93-020 1

LAB NO. 0193-400

SUBMITTED BY EW

DATE/TIME 1-28-93.

DATA FILE NUMBER

PRETREATMENT

AS IS	
FILTERED	
pH <2	
H_2O =	

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

CN ANALYSIS (Units)
MG/KG
MG/L

CN SPOT	3650.0

DISTILLATION

TOTAL	
NON-AMEN	
AMENABLE	—

FIRE ASSAY
Wet Sample
Dry Sample
G DIGEST/250 ML

ACID	
H_2O	
QACID	

ACID %	
H_2O %	
QACID %	
ACID % IR	
H_2O % IR	
% MOIST.	

ICP METALS (MG/L)

Ag	
Al	
Au	
B	
Ca	
Cd	
Cr	
Cu	
Fe	
Hg	
Mn	
Ni	
P	
Pb	
Zn	
Ba	

OTHER (MG/L)

NH_3	
Cl_2	
O&G	
TOC	
As	

pH	
SG	

H_2O SOL. IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{3-}	
Cr^{3} 7Cr Toc	

INITIAL PHASE:

___ Liquid

X Solid

Generator SJUB

Profile #

Tracking # 593-020

Drum # 1

$Fe(CN)_6$

8.43/100ml (3,650.0 ppm)

AA METALS (MG/L)

ANALYZED BY SK DATE: 1/28

APPROVED BY DATE:

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID M92-175-01 #1

LAB NO. 0293-016

SUBMITTED BY EW

DATE/TIME 1-28-93

DATA FILE NUMBER 032H

PRETREATMENT	
AS IS	✓
FILTERED	
pH <2	
H_2O_2	

AA H_2O CATIONS (MG/L)	
Na^+	
K^+	

CN ANALYSIS (Units)	
MG/KG	
MG/L	
CN SPOT	—
DISTILLATION	
TOTAL	
NON-AMEN	
AMENABLE	

FIRE ASSAY	
Wet Sample	✓
Dry Sample	
G DIGEST/250 ML	
ACID	2.5 g
H_2O	10.0 g
QACID	

ICP METALS (MG/L)	
Ag	0.0
Al	0.0
Au	0.0
B	0.0
Ca	0.0
Cd	0.0
Cr	0.0
Cu	6321.0
Fe	0.0
Hg	0.0
Mn	0.0
Ni	0.0
P	4361.0
Pb	0.0
Sn	16.4
Ba	0.0

OTHER (MG/L)	
NH_3	
Cl_2	
O&G	
TOC	59.5
As	
pH	
SG	

H_2O SOL. IONS (MG/L)	
Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{3+}	
Cr^{3+}/Cr Tot	

AA METALS (MG/L)	

FIRE ASSAY	
ACID %	1
H_2O %	01
QACID %	
ACID % IR	ND
H_2O % IR	99.2
% MOIST.	.4

INITIAL PHASE:

___ Liquid

X Solid

Generator SJOB PLATING

Profile # M92-175-01

Tracking # 593-020

Drum # 1 Sample #1

REG DIGEST

ANALYZED BY JK/JK/G.A DATE:

REVIEWED BY DATE:

0293-016 1/10 1637 2/01/93

SeTr	AV	0.12	SD	0.034	CV	27.70
MoTr	AV	-0.45	SD	0.530	CV	116.67
CrTr	AV	-1.21	SD	0.007	CV	0.54
SbTr	AV	-0.35	SD	0.017	CV	4.67
WTr	AV	5.26	SD	2.174	CV	41.29
ZnTr	AV	1.64	SD	0.347	CV	21.15
CdTr	AV	-0.47	SD	0.025	CV	5.24
PTr	AV	457.83	SD	84.639	CV	18.49
PbTr	AV	-0.20	SD	0.055	CV	28.10
CoTr	AV	-0.66	SD	0.003	CV	0.48
NiTr	AV	-0.59	SD	0.047	CV	7.88
BaTr	AV	-0.98	SD	0.005	CV	0.51
AuTr	AV	-0.91	SD	0.179	CV	19.75
BTr	AV	-3.18	SD	0.435	CV	13.67
MnTr	AV	-0.55	SD	0.017	CV	3.02
FeTr	AV	-0.70	SD	0.009	CV	1.25
MgTr	AV	-0.85	SD	0.025	CV	2.99
SnTr	AV	-0.49	SD	0.044	CV	8.98
VTr	AV	-0.31	SD	0.005	CV	1.51
BiTr	AV	0.31	SD	0.039	CV	12.45
AlTr	AV	-0.35	SD	0.011	CV	3.18
CaTr	AV	-0.90	SD	0.045	CV	5.03
CuTr	AV	663.70	SD	29.910	CV	4.51
AgTr	AV	-0.08	SD	0.000	CV	0.42
TiTr	AV	1.82	SD	0.091	CV	4.99
ScTr	AV	350547.5	SD	20918.3	CV	6.0

0293-016 1/100 1647 2/01/93

SeTr	AV	0.00	SD	0.039	CV	2032.11
MoTr	AV	-0.95	SD	0.197	CV	20.75
CrTr	AV	-0.85	SD	0.013	CV	1.56
SbTr	AV	-0.39	SD	0.004	CV	0.98
WTr	AV	0.31	SD	1.466	CV	473.62
ZnTr	AV	-0.47	SD	0.041	CV	8.77
CdTr	AV	-0.54	SD	0.004	CV	0.65
PTr	AV	43.61	SD	3.613	CV	8.28
PbTr	AV	-0.31	SD	0.119	CV	39.01
CoTr	AV	-0.68	SD	0.002	CV	0.36
NiTr	AV	-0.65	SD	0.003	CV	0.50
BaTr	AV	-1.07	SD	0.014	CV	1.35
AuTr	AV	-1.18	SD	0.041	CV	3.47
BTr	AV	-3.86	SD	0.029	CV	0.76
MnTr	AV	[illegible]	SD	[illegible]	CV	[illegible]
FeTr	AV	-0.76	SD	0.006	CV	0.85
MgTr	AV	-0.91	SD	0.010	CV	1.07
SnTr	AV	-0.45	SD	0.080	CV	17.65
VTr	AV	-0.48	SD	0.030	CV	6.24
BiTr	AV	0.20	SD	0.085	CV	43.04
AlTr	AV	[illegible]	SD	[illegible]	CV	[illegible]
TiTr	AV	[illegible]	SD	[illegible]	CV	[illegible]
CuTr	AV	[illegible]	SD	[illegible]	CV	[illegible]
AgTr	AV	-0.09	SD	0.001	CV	1.63
TiTr	AV	2.19	SD	0.016	CV	0.74
ScTr	AV	316809.0	SD	32746.1	CV	10.3

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID m92-175-01 #1 LAB NO. 0193-387

SUBMITTED BY EW DATE/TIME 1-28-93

DATA FILE NUMBER 028B

PRETREATMENT

AS IS	
FILTERED	
pH <2	
H_2O =	

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

CN ANALYSIS (Units)
MG/KG ___
MG/L 3825.6

CN SPOT	36500.0

DISTILLATION

TOTAL	59,849.0
NON-AMEN	15,188.0
AMENABLE	44,796.0

CN (dist.) 155,562.5 ppm

FIRE ASSAY
Wet Sample ✓
Dry Sample ___
G DIGEST/250 ML

ACID	
H_2O	
QACID	5.0g

ACID %	
H_2O %	
QACID %	9
ACID % IR	
H_2O % IR	
% MOIST.	

ICP METALS (MG/L)

Ag	0.0
Al	0.8
Au	0.0
B	0.0
Ca	0.0
Cd	0.0
Cr	0.0
Cu	10999.9
Fe	0.0
Mg	0.0
Mn	3.1
Ni	0.0
P	9797.5
Pb	1.9
Zn	48.2
Ba	0.0

OTHER (MG/L)

NH_3	
Cl_2	
O&G	
TOC	
As	
pH	
SG	

H_2O SOL. IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
CO_3^{2-}	
CO_3^{2-} / TOC	

AA METALS (MG/L)

INITIAL PHASE:
___ Liquid
X Solid

Generator: SJOB PLATING
Profile #: M92-175-01
Tracking #: S93-020
Drum #: 1

QUICK DIGEST

ANALYZED BY: JK/SK DATE: 1-28-93
APPROVED BY: ___ DATE: ___

SeTr	AV	-0.04	SD	0.003	CV	7.67
MoTr	AV	-1.78	SD	0.004	CV	0.23
CrTr	AV	-1.03	SD	0.088	CV	8.56
SbTr	AV	-0.09	SD	0.012	CV	13.86
WTr	AV	-9.78	SD	1.033	CV	10.56
ZnTr	AV	4.82	SD	0.115	CV	2.38
CdTr	AV	-0.12	SD	0.006	CV	5.00
PTr	AV	979.75	SD	9.769	CV	1.00
PbTr	AV	0.19	SD	0.004	CV	2.36
CoTr	AV	-0.08	SD	0.018	CV	21.99
NiTr	AV	-0.07	SD	0.004	CV	5.88
BaTr	AV	-0.44	SD	0.009	CV	2.09
AuTr	AV	-1.48	SD	0.009	CV	0.61
BTr	AV	-3.92	SD	0.010	CV	0.25
MnTr	AV	0.31	SD	0.070	CV	22.70
FeTr	AV	-0.11	SD	0.005	CV	4.32
MgTr	AV	-0.15	SD	0.005	CV	3.02
SnTr	AV	-0.12	SD	0.005	CV	4.46
VTr	AV	-0.20	SD	0.009	CV	4.53
BiTr	AV	-0.10	SD	0.026	CV	25.03
AlTr	AV	0.08	SD	0.037	CV	48.24
CaTr	AV	-0.61	SD	0.005	CV	0.75
CuTr	AV	1099.98	SD	20.684	CV	1.88
AgTr	AV	-0.06	SD	0.010	CV	18.85
TiTr	AV	1.08	SD	0.042	CV	3.87
ScTr	AV	395330.5	SD	1508.3	CV	0.4

ANALYTICAL LAB REQUEST FOR ANALYSIS

MPLE ID PT-CuCN

SUBMITTED BY M Rawlin

DATA FILE NUMBER

LAB NO. 0193.492

DATE/TIME 1-29-93

PRETREATMENT

AS IS	
FILTERED	
pH <2	
H_2O_2	

ICP METALS (MG/L)

Ag	0.2
Al	3.0
Au	NA
B	0.0
Ca	23.5
Cd	0.0
Cr	0.2
Cu	0.2
Fe	0.0
Mg	34.3
Mn	0.3
Ni	0.5
P	6.7
Pb	0.8
Zn	<0.1

AA METALS (MG/L)

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

OTHER (MG/L)

NH_3	
Cl_2	
O&G	
TOC	
As	

pH	
SG	

H_2O SOLUBLE IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{6+}	
Cr^{6+}/Cr Tot	

CN ANALYSIS (Units)

MG/KG ___

MG/L ___

CN SPOT	<0.1

DISTILLATION

TOTAL	
NON-AMEN	
AMENABLE	

FIRE ASSAY

Wet Sample ___

Dry Sample ___

G DIGEST/250 ML

ACID	
H_2O	
QACID	

ACID #	
H_2O #	
QACID #	
ACID % IR	
H_2O % IR	
% MOIST.	

SJOB

S93-018 #1

JK/

1-29-93

APPROVED BY: _____ DATE: _____

0193-440-1/10 REPLICATE #1 1732 1/29/93

SeT		0.348	peak-noisy
MoT		-0.036	peak-noisy
CrT		0.006	
ZnT		0.003	
CdT		-0.002	peak-noisy
PT		0.713	window-edge
PbT		0.049	peak-noisy
CoT		0.042	peak-noisy
NiT		0.058	
BaT		0.002	peak-noisy
BT		-0.128	
MnT		[illegible]	peak-noisy
FeT		-0.131	
MgT		3.578	peak-noisy
AlT		0.332	peak-noisy
CaT		2.372	peak-noisy
CuT		0.023	
AgT		0.028	peak-noisy
ScT	EM	281652	

0193-440-1/10 REPLICATE #2

SeT		0.205	peak-noisy
MoT		-0.016	peak-noisy
CrT		0.028	peak-noisy
ZnT		0.006	peak-noisy
CdT		-0.000	peak-noisy
PT		0.621	peak-noisy
PbT		0.110	peak-noisy
CoT		0.043	peak-noisy
NiT		0.047	peak-noisy
BaT		0.017	peak-noisy
BT		-0.184	
MnT		0.022	peak-noisy
FeT		-0.140	peak-noisy
MgT		3.272	peak-noisy
AlT		0.270	peak-noisy
CaT		2.325	peak-noisy
CuT		0.019	
AgT		0.005	peak-noisy
ScT	EM	292977	

SeT	AV	0.277	SD	0.1011	CV	36.56
MoT	AV	-0.026	SD	0.0140	CV	54.50
CrT	AV	0.017	SD	0.0155	CV	93.42
ZnT	AV	0.004	SD	0.0023	CV	53.90
CdT	AV	-0.001	SD	0.0013	CV	118.78
PT	AV	0.667	SD	0.0650	CV	9.76
PbT	AV	0.080	SD	0.0434	CV	54.60
CoT	AV	0.042	SD	0.0008	CV	1.89
NiT	AV	0.052	SD	0.0078	CV	14.95
BaT	AV	0.009	SD	0.0110	CV	117.63
BT	AV	-0.156	SD	0.0397	CV	25.45
MnT	AV	0.026	SD	0.0046	CV	17.86
FeT	AV	-0.135	SD	0.0066	CV	4.86
MgT	AV	3.425	SD	0.2166	CV	6.32
AlT	AV	0.301	SD	0.0434	CV	14.40
CaT	AV	2.348	SD	0.0330	CV	1.40
CuT	AV	0.021	SD	0.0024	CV	11.32
AgT	AV	0.016	SD	0.0167	CV	101.62
ScT	AV	287314.5	SD	8008.0	CV	2.8

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID PT- CuCN

LAB NO. 0293-029

SUBMITTED BY MJ

DATE/TIME 2/1/93

DATA FILE NUMBER 033B

PRETREATMENT

AS IS	X
FILTERED	
pH <2	
H_2O_2	

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

CN ANALYSIS (Units)
MG/KG ___
MG/L ___

CN SPOT	

DISTILLATION

TOTAL	
NON-AMEN	
AMENABLE	

FIRE ASSAY
Wet Sample ___
Dry Sample ✓
G DIGEST/250 ML

ACID	2.5g
H_2O	
QACID	

ACID #	19
H_2O #	
QACID #	
ACID % IR	
H_2O % IR	
% MOIST.	

ICP METALS (MG/L)

Ag	0.0
Al	0.1
Au	0.0
B	0.0
Ca	0.0
Cd	0.0
Cr	0.0
Cu	2815.0
Fe	0.0
Mg	67.2
Mn	0.0
Ni	0.0
P	2468.0
Pb	0.0
Zn	11.0
Ba	0.0

OTHER (MG/L)

NH_3	
Cl_2	
O&G	
TOC	
As	

pH	
SG	

H_2O SOL. IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{6+}	
Cr^{6+}/Cr Tot	

AA METALS (MG/L)

INITIAL PHASE:

___ Liquid

X Solid

Generator SJOB PLATING

Profile # ___

Tracking # ___

Drum # ___

This Material is Dry.
Please do only the Acid Digestion

TRUCK STD PLEASE

ANALYZED BY SK DATE: 2/2

APPROVED BY ___ DATE: ___

0293-029 1/10 1130 2/02/93

SeTr	AV	0.27	SD	0.173	CV	63.39
MoTr	AV	-0.34	SD	0.011	CV	3.16
CrTr	AV	-0.46	SD	0.012	CV	2.64
SbTr	AV	-0.18	SD	0.027	CV	15.46
WTr	AV	-1.38	SD	0.023	CV	1.64
ZnTr	AV	1.10	SD	0.039	CV	3.55
CdTr	AV	-0.22	SD	0.000	CV	0.02
PTr	AV	~~279.61~~	SD	9.229	CV	3.30
PbTr	AV	-0.01	SD	0.034	CV	225.70
CoTr	AV	-0.19	SD	0.001	CV	0.63
NiTr	AV	-0.19	SD	0.005	CV	2.48
BaTr	AV	-0.26	SD	0.000	CV	0.01
AuTr	AV	-0.01	SD	0.025	CV	193.34
BTr	AV	-3.32	SD	0.009	CV	0.27
MnTr	AV	-0.22	SD	0.002	CV	0.94
FeTr	AV	-0.28	SD	0.011	CV	3.92
MgTr	AV	6.72	SD	0.242	CV	3.60
SnTr	AV	-0.11	SD	0.124	CV	115.12
VTr	AV	-0.20	SD	0.027	CV	13.99
BiTr	AV	0.18	SD	0.084	CV	47.35
AlTr	AV	0.01	SD	0.034	CV	385.84
CaTr	AV	-0.16	SD	0.014	CV	8.72
CuTr	AV	~~310.97~~	SD	12.253	CV	3.94
AgTr	AV	-0.08	SD	0.005	CV	5.58
TiTr	AV	1.90	SD	0.269	CV	14.13
ScTr	AV	376075.0	SD	531.7	CV	0.1

0293-029 1/100 1202 2/02/93

SeTr	AV	0.25	SD	0.103	CV	41.13
MoTr	AV	-0.34	SD	0.032	CV	9.30
CrTr	AV	-0.32	SD	0.011	CV	3.50
SbTr	AV	-0.13	SD	0.009	CV	6.97
WTr	AV	-0.92	SD	0.090	CV	9.84
ZnTr	AV	-0.13	SD	0.012	CV	9.12
CdTr	AV	-0.24	SD	0.000	CV	0.00
PTr	AV	24.68	SD	0.210	CV	0.85
PbTr	AV	-0.09	SD	0.069	CV	74.06
CoTr	AV	-0.20	SD	0.004	CV	1.88
NiTr	AV	-0.20	SD	0.005	CV	2.24
BaTr	AV	-0.25	SD	0.002	CV	0.78
AuTr	AV	-0.01	SD	0.025	CV	179.85
BTr	AV	-3.39	SD	0.022	CV	0.66
MnTr	AV	-0.23	SD	0.000	CV	0.00
FeTr	AV	-0.41	SD	0.019	CV	4.73
MgTr	AV	0.13	SD	0.005	CV	3.86
SnTr	AV	-0.18	SD	0.017	CV	9.30
VTr	AV	-0.21	SD	0.009	CV	4.37
BiTr	AV	0.19	SD	0.009	CV	4.72
AlTr	AV	-0.02	SD	0.028	CV	132.20
CaTr	AV	-0.78	SD	0.017	CV	2.19
CuTr	AV	28.15	SD	0.305	CV	1.08
AgTr	AV	-0.08	SD	0.003	CV	3.53
TiTr	AV	2.08	SD	0.169	CV	8.09
ScTr	AV	364950.0	SD	431.3	CV	0.1

ETICAM

May 11, 1987

Mr. L.H. Dodgion, P.E.
Administrator
Division of Environmental Protection
201 South Fall Street
Capitol Complex
Carson City, Nevada 89710

RE: MANIFEST DISCREPANCY
MANIFEST #: 86113326

Dear Mr. Dodgion:

We are reporting the following discrepancy observed on a waste load received on April 27, 1987. This load was part of three trucks from the same site as follows:

MANIFEST NO.	QUANTITY
86113302	3000 gals
86113303	2200 gals
86113326	720 gals

Based on the observed tank levels, it was estimated that approximately 6650 gallons was received. We estimate that the water used to wash the truck amounted to 100 to 200 gallons, therefore we received approximately 500 gallons more than shown on the manifest.

There was also a discrepancy on Manifest No. 86113326 in the analysis of the pre-sample submitted and the sample from the truck as follows:

	PRE-SAMPLE PPM	TRUCK SAMPLE PPM
Sn	ND	300
Cr	7.4	370
Zn	11000	2700
Pt	ND	ND

Nevada
P.O. Box 1075
Fernley, NV 89408
Tel. (702) 575-2760
Reno Line 789-1044
Telecopy: 702-575-2803

Rhode Island Texas Illinois West Germany

	PRE-SAMPLE PPM	TRUCK SAMPLE PPM
Cd	>3	<5
Ni	19500	3900
Au	ND	ND
Fe	55	4200
Pb	40	360
Cu	<5	<5
Pd	ND	ND
Al	10	5000
B	--	610

Please contact us if you need additional information.

Regards,

Byron B. Bradd

Byron B. Bradd, P.E.
Plant Manager

cc: CA DOHS
Region IX EPA

Attachments

BB/dm

State of California—Health and Welfare Agency

Please print or type. *(Form designed for use on elite (12-pitch) typewriter.)*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST CAP

1. Generator's US EPA ID No. 0 0 0 0 9 6 0 5 8 — Manifest Document No. 0 0 0 0 1

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
U.S. Environmental Protection Agency
215 Fremont St. CA 94105
San Fransisco

4. Generator's Phone (415) 974-8927

A. State Manifest Document Number: 86113302

B. State Generator's ID

5. Transporter 1 Company Name: Industrial Waste Engineering

6. US EPA ID Number: C A D 9 8 1 4 6 5 5 0 1 3

C. State Transporter's ID: 70 8841

D. Transporter's Phone: 1-800 223-4592

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Eticam, Inc.
Fernly, NV

10. US EPA ID Number: N V D 9 8 0 8 9 5 3 3 8

G. State Facility's ID

H. Facility's Phone

11. US DOT Description *(Including Proper Shipping Name, Hazard Class, and ID Number)*	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Nitrating Acid, Spent, Corrosive Material, NA 1826,	0 0 1	T T	3 0 0 0	GAL	F006
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.

Printed/Typed Name: Robert M. Mandel — Signature: Robert M Mandel, OSC — Month Day Year: 9 4 2 4 8 7

GENERATOR

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Doug Snether — Signature — Month Day Year: 9 4 2 4 8 7

TRANSPORTER

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

FACILITY

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: DAW E. SABATINI — Signature — Month Day Year: 9 8 1 2 7 8 7

86113302

DHS 8022 A (11/85)
(EPA 8700—22)

White: TSDF SENDS THIS COPY TO DOHS WITHIN 30 DAYS
To: P.O. Box 3000, Sacramento CA 95812

State of California—Health and Welfare Agency

Please print or type. *(Form designed for use on elite (12-pitch) typewriter.)*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST CAP

1. Generator's US EPA ID No. 0 0 0 0 0 6 0 5 9 — Manifest Document No. 0 0 0 0 1

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
U.S. Environmental Protection Agency
215 Fremont St.
San Francisco, CA 94105

4. Generator's Phone (415) 974-8927

A. State Manifest Document Number 86113303

B. State Generator's ID

5. Transporter 1 Company Name
Pacific Vacuum Truck Co, Inc.

6. US EPA ID Number CAD 0 0 8 8 2 5 0 0 1 0

C. State Transporter's ID 703595

D. Transporter's Phone 213 422 3485

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Eticam, Inc
Fernly, NV

10. US EPA ID Number N V D 9 8 0 8 9 5 3 3 8

G. State Facility's ID

H. Facility's Phone

11. US DOT Description *(Including Proper Shipping Name, Hazard Class, and ID Number)*	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, Nitrating Acid, Spent, Corrosive Material, NA 1826	001	TT	02200	GAL	F006
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

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Printed/Typed Name: Robert M. Mandel — Signature: [signature] — Month Day Year: 0 4 2 4 8 7

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Richard Flores — Signature: [signature] — Month Day Year: 0 4 2 4 8 7

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: JOHN E. SABATINI — Signature: [signature] — Month Day Year: 0 4 2 7 8 7

GENERATOR — TRANSPORTER — FACILITY

86113303

DHS 8022 A (11/85)
(EPA 8700—22)

White: TSDF SENDS THIS COPY TO DOHS WITHIN 30 DAYS
To: P.O. Box 3000, Sacramento CA 95812

State of California—Health and Welfare Agency

Please print or type. *(Form designed for use on elite (12-pitch) typewriter.)*

Department of Health Servi
Toxic Substances Control Divisi
Sacramento, Californ

UNIFORM HAZARDOUS WASTE MANIFEST CAP

1. Generator's US EPA ID No. 0 0 0 0 0 1 6 0 5 9 | Manifest Document No. 0 0 0 0 0 1 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
US EPA
215 Fremont St., San Francisco, CA 94105

4. Generator's Phone (415) 974-8927

A. State Manifest Document Number
86113326

B. State Generator's ID

5. Transporter 1 Company Name
Pacific Vacuum Truck Co, Inc

6. US EPA ID Number
CAT 0 0 6 2 5 0 2 0

C. State Transporter's ID 70357

D. Transporter's Phone 213-427-3185

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Eticam, Inc.
Fernly, NV
(702) 575-2760

10. US EPA ID Number
N V D 9 8 0 8 9 5 3 3 8

G. State Facility's ID

H. Facility's Phone

11. US DOT Description *(Including Proper Shipping Name, Hazard Class, and ID Number)*	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste, Corrosive Liquid n.o.s, Corrosive material, UN 1760	001	TT	07200	G	F006
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
Spent Acid mixtures with metals

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
In case of accident call Chemtrec
or Tiedel Environmental Svc @ 1-800-334-0004

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name	Signature	Month Day Year
Robert Mandel	Robert M. Mandel	0 4 2 5 8 7

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
Richard Flores	Richard Flores	0 4 2 5 8 7

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

19. Discrepancy Indication Space
METAL MATCH GROSSLY OFF. DOES NOT MATCH EWP WITHIN LAB LIMITS.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month Day Year
JOHN E. SABBATH	John E. Sabbath	0 4 2 7 8 7

GENERATOR

TRANSPORTER

FACILITY

86113326

DHS 8022 A (11/85)
(EPA 8700—22)

White: TSDF SENDS THIS COPY TO DOHS WITHIN 30 DAYS
To: P.O. Box 3000, Sacramento CA 95812

1. d)

SLUDGE MARKETING REPORT

M-LOG: (92)-(171)-(01)

PROJECTED QUANTITY: 1 Drum

CYANIDE (Y/N): NA

COLOR: ORANGE

FREE LIQUID: ND

COMPANY: SJOB PLATING

DATE & TIME: 12-10-92

GWP SUMMARY: Dichromate

WASTE CODE: D007

% MOISTURE: 12.0

Liq. Displacement 1.921

pH 5.60

*ALL VALUES ARE BASED UPON DRY WT.

A-88 — 1 Drum

	FREE LIQUID	FILTRATE	FILTER CAKE	* % BY WEIGHT
Ag			0.0	0.0
Al			0.6	<0.01
As				
Au			0.0	0.0
B			0.0	0.0
Ba				
Ca			0.0	0.0
Cd			0.0	0.0
Cl				
Cr			3825.0	38.25
Cu			0.0	0.0
Fe			0.0	0.0
Hg				
K				
Mg			0.0	0.0
Na				
Ni			0.0	0.0
NO3				
Pb			0.0	0.0
PO4			0.0	0.0
Se				
Sn			<5.0	
SiO2				
SO4				
Zn			0.0	0.0
S.G.				
TOC			2897.0	7.24
NH3				
CN				

Cr/P STANDARD

Cr = 3802.5 ppm

P = 0.0 ppm

Direct to Inerted

Do NOT Dry.

72425 ppm = TRL

NA - Not Analyzed
ND - None Detected

Cr-6+ 10203.6 25.57

TESTING PERFORMED BY: _____

REVIEWED BY: M Kenn 12/22/92

1/29/91

ANALYTICAL LAB REQUEST FOR ANALYSIS
MARKETING SAMPLE

SAMPLE ID M92-171-01

LAB NO. 1292-218

SUBMITTED BY [illegible]

DATE/TIME 12-10-92

DATA FILE NUMBER 349 B

[illegible] M. Hanks

PRETREATMENT

AS IS	✓
FILTERED	
pH <2	
H_2O_2	

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

CN ANALYSIS (Units)
MG/KG ___
MG/L ___

CN SPOT	

DISTILLATION

TOTAL	
NON-AMEN	
AMENABLE	

FIRE ASSAY
Wet Sample ___
Dry Sample ✓
G DIGEST/250 ML

ACID	2.5 g
H_2O	10.0 g
QACID	

ACID #	7
H_2O #	17
QACID #	
ACID % IR	ND
H_2O % IR	0.1
% MOIST.	12.0

ICP METALS (MG/L)

Ag	0.0
Al	0.6
Au	0.0
B	0.0
Ca	0.0
Cd	0.0
Cr	3825.0
Cu	0.0
Fe	0.0
Mg	0.0
Mn	0.0
Ni	0.0
P	0.0
Pb	0.0
Zn	0.0
Sn	1289.0

OTHER (MG/L)

NH_3	
Cl_2	
O&G	
TOC	2897.0
As	

pH	
SG	

H_2O SOL. IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{6+}	10,303.6
Cr^6 / Cr Tot	

AA METALS (MG/L)

Sn	<5.0

INITIAL PHASE:

___ Liquid

X Solid

Generator SJOB PLATING

Profile # M92-171-01

Cr P std please!

Cr = 3802.5

P = 0.0

ANALYZED BY JE/SK DATE: 12-14-92

APPROVED BY ___ DATE: ___

ETICAM

2095 Newlands Drive East, Fernie, Nevada 89408
1-800-648-9931

GENERATOR'S WASTE MATERIAL PROFILE SHEET

PROFILE NUMBER
LOG #
DATE RECEIVED IN LAB

A. GENERAL INFORMATION

GENERATOR NAME: U.S. EPA - REGION 9 / SJOB PLATING
FACILITY ADDRESS: 612 MARTIN LUTHER KING BLVD. LAS VEGAS, NV
TECHNICAL CONTACT: JEFF WEBB TITLE
PHONE (206) 525-9168
NAME OF WASTE: A88
PROCESS GENERATING WASTE: SUPERFUND CLEAN-UP @ METAL PLATING SHOP

TRANSPORTER:
TRANSPORTER PHONE:
GENERATOR USEPA I.D NVD982488793
GENERATOR STATE I.D
CUSTOMER NAME: CET ENVIRONMENTAL
ADDRESS: 9706 4TH NE, SUITE 101 SEATTLE, WA 98115

B. PHYSICAL CHARACTERISTICS OF WASTE

COLOR: ORANGE

VISCOSITY: ☐ HIGH ☒ MEDIUM ☐ LOW

ODOR: ☒ NONE ☐ MILD ☐ STRONG DESCRIBE

PHYSICAL STATE AT 70° F.: ☐ SOLID ☐ SEMI-SOLID ☐ LIQUID ☒ POWER

LAYERS: ☐ MULTIBAVERED ☐ BILATERED ☒ SINGLE-PHASED

FREE LIQUIDS: ☐ YES ☒ NO VOLUME ____ %

pH: ☐ < 2 ☐ 7.1 - 10 ☐ N/A ☐ 2 - 4 ☐ 10.1 - 12.5 ☒ 4.1 - 6.9 ☐ >12.5 ☐ 7 ☐ EXACT

SPECIFIC GRAVITY: ☐ <.8 ☐ 1.3 - 1.4 ☐ .8 - 1.0 ☐ 1.5 - 1.7 ☒ 1.1 - 1.2 ☐ >1.7 ☐ EXACT

FLASH POINT: ☐ <70°F ☒ >200°F ☐ CLOSED CUP ☐ 70°F - 100°F ☐ NO FLASH ☐ OPEN CUP ☐ 101°F - 139°F ☐ EXACT ☐ 140°F - 200°F

C. CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

DICHROMATE POWDER	(100)%
	( )%
TOTAL HEAVY METALS	(0 - 8)%
	( )%
	( )%
	( )%
	( )%
	( )%

D. METALS ☐ TOTAL (PPM) ☒ EPA EXTRACTION PROCEDURE (mg/L)

GOLD (Au)		TIN (Sn)	
IRON (Fe)		SILVER (Ag)	ND
CADMIUM (Cd)	.4	COPPER (Cu)	61
CHROMIUM (Cr)	8960	NICKEL (Ni)	5.5
MERCURY (Hg)	ND	ZINC (Zn)	
LEAD (Pb)	4.4	SELENIUM (Se)	ND
CHROMIUM HEX (Cr + 6)	5200	BORON (B0)	
ARSENIC (As)	ND	OTHER(S)	
BARIUM (Ba)	ND		

E. OTHER COMPONENTS - TOTAL (PPM)

CYANIDES
SULFIDES
CHLORINED SOLVENTS
PCB'S
PHENOLICS

F. SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL ? ☒ YES ☐ NO
PROPER SHIPPING NAME RQ HAZARDOUS WASTE SOLID, NOS
HAZARDOUS CLASS 9 PG III I.D. NO. NA 3077 R.Q. 10
METHOD OF SHIPMENT ☐ BULK LIQUID ☐ BULK SOLID ☒ DRUM (TYPE / SIZE) 17H / 55
ANTICIPATED VOLUME: ____ GALS. ____ CUBIC YARDS 1 OTHER DRUM
PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR

G. HAZARDOUS CHARACTERISTICS

REACTIVITY: ☒ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☐ OTHER

OTHER HAZARDOUS CHARACTERISTICS ☒ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☐ OTHER

US EPA HAZARDOUS WASTE? ☒ YES ☐ NO
US EPA HAZARDOUS CODE(S) D007
STATE HAZARDOUS WASTE? ☐ YES ☐ NO
STATE CODE(S)

H. SPECIAL HANDLING INFORMATION

SEE ATTACHED ANALYTICAL

☒ ADDITIONAL PAGE(S) ATTACHED

I CERTIFY THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED AND ALL ATTACHED DOCUMENTS, AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATLY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THAT THE SUBMITTED INFORMATION IS TRUE, AND COMPLETE.

AUTHORIZED SIGNATURE

Federal On-Scene Coordinator
TITLE

12-4-92
DATE

H00

CERTIFICATION OF WASTE STATUS BY TCLP

GENERATOR: U.S. EPA / REGION 9 SJOB PLATING

ACCEPTANCE NO.: _____ WASTE CODES: D007

AT THE POINT OF GENERATION, THE WASTE IDENTIFIED BY THE ABOVE REFERENCED ACCEPTANCE NUMBER EXHIBITS THE FOLLOWING CHARACTERISTIC CONSTITUENTS AS DETERMINED BY THE TCLP METHOD, AND AS REQUIRED ON SEPTEMBER 25, 1991 IN ACCORDANCE WITH THE FEDERAL REGISTER VOL. %%, no. 61, DATED MARCH 29, 1990:

___ NONE AS LISTED IN 40 CFR PART 261 SUBPART C FOR D004 THRU D043

✓ CHARACTERISTIC OF TOXIC CHARACTERISTIC LEACH PROCEDURE TOXICITY (TCLP) FOR THE FOLLOWING CONSTITUENTS ONLY:

___ ARSENIC (D004)
___ BARIUM (D005)
___ BENZENE (D018)
___ CADMIUM (D006)
___ CARBON TETRACHLORIDE (D019)
___ CHLORDANE (D020)
___ CHLOROBENZENE (D021)
___ CHLOROFORM (D022)
✓ CHROMIUM (D007)
___ o-CRESOL (D023)
___ m-CRESOL (D024)
___ p-CRESOL (D025)
___ CRESOL (D026)
___ 2,4-D (D016)
___ 1,4-DICHLOROBENZENE (D027)
___ 1,2-DICHLOROETHANE (D028)
___ 1,1-DICHLOROETHYLENE(D029)
___ 2,4-DINITROTOLUENE (D030)
___ ENDRIN (D012)
___ HEPTACHLOR (D031)
___ HEXACHLOROBENZENE (D032)
___ HEXACHLOROBUTADIENE (D033)
___ HEXACHLOROETHANE (D034)
___ LEAD (D008)
___ LINDANE (D013)
___ MERCURY (D009)
___ METHOXYCHLOR (D014)
___ METHYLETHYLKETONE (D035)
___ NITROBENZENE (D036)
___ PENTRACHLOROPHENOL (D037)
___ PYRIDINE (D038)
___ SELENIUM (D010)
___ SILVER (D011)
___ TETRACHLOROETHYLENE (D039)
___ TOXAPHENE (D015)
___ TRICHLOROETHYLENE (D040)
___ 2,4,5-TRICHLOROPHENOL (D041)
___ 2,4,6-TRICHLOROPHENOL (D042)
___ 2,4,5-TP (SILVEX) (D017)
___ VINYL CHLORIDE (D043)

CERTIFICATION

I certify that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste exhibits only characteristics as marked above from 40 CFR Part 261 Subpart C (as effective on 9/25/90). I believe that the information I am submitting is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification including the possibility of a fine and imprisonment.

Richard L. Martyn
PRINTED NAME

12-4-92
DATE

Richard L. Martyn
SIGNATURE

OSC
TITLE

File No. 1092384

RCRA Total Metals (EPA 3050 digest)

mg/kg (ppm)

	Cr	Ba	Cu	Pb	Cd	Ni	Ag	Cr^{+6}
CNL	102	ND	12,800	34.7	3080	83.0	27.5	ND
AOL	17,300	ND	16,600	26.9	90.9	5,520	ND	230
BOL	122	ND	300	15.4	3.85	36.1	ND	7.8
BL	67.6	ND	300	18.8	2.91	58.6	ND	ND
NCL.HI	1,120	ND	259	26.9	2.92	3,280	ND	25.2

IV. TCLP EXTRACTS:

mg/L (ppm)

	Cr	Ba	Cu	Pb	Cd	Ni	Ag	Cr^{+6}
CNS	10.8	ND	12,400	3.7	36	49.3	400	0.13
AOS	3.5	ND	742	4.3	6.3	45.8	ND	ND
BS	145	ND	61.5	2.5	ND	24.3	ND	3.9
NCL-Lo	ND	ND	52.8	2.4	ND	17.9	ND	ND
NCS-Hi	0.65	ND	58.9	2.5	0.60	224	ND	ND
NCS-Lo	0.10	ND	56.8	2.4	ND	5.8	ND	51.6
NCS-Soil	22.4	ND	49.7	2.2	ND	5.1	ND	1.7
NFL	1.1	ND	53.3	2.6	ND	5.6	ND	ND
A26	4.3	ND	45.9	2.9	ND	16.7	ND	ND
A88	8,960	ND	61.0	4.4	0.40	5.5	ND	5,200
Detection Limit:	0.05	5	0.05	0.10	0.01	1.0	0.1	0.05

% Spike Recovery

	Cr	Ba	Cu	Pb	Cd	Ni	Ag	Cr^{+6}
Spike	85	85	95	95	93	92	85	80%
Spike Dup.	85	87	95	95	94	90	85	80%

Methods:

Chromium (total) 7190, (hexavalent) 7195
Barium 7080
Lead 7420
Nickel 7520
Copper 7210
Cadmium 7130
Silver 7760

(Continued...)

RCRA Total Metals (EPA 3050 digest)

Arsenic - EPA 7061

	mg/kg (ppm)
CNL	ND*
AOL	1.69
BOL	0.468
BL	0.492
NCL-Hi	0.492
Blank	ND*

*Minimum Detection Limit is ca. 0.10 ppm

Note: Matrix Spike and matrix spike duplicate results are with TCLP results.

TCLP Extracts

Arsenic - EPA 7061

	mg/L (ppm)
CNS	0.247
AOS	0.022
BS	0.104
NCL-Lo	0.004
NCS-Hi	ND*
NCS-Lo	0.003
NCS-Soil	0.004
NFL	ND*
A26	ND*
A88	ND*
Blank	ND*
Spike 0.05 ppm (NFL)	0.046 91.4% recovery
spike duplicate	0.049 98.0% recovery

*Minimum Detection Limit is ca. 0.002 ppm (2 ppb)

(Continued...)

File No. 1092384

RCRA Total Metals (EPA 3050 digest)

Selenium - EPA 7741

	mg/kg (ppm)
CNL	0.723
AOL	ND*
BOL	0.250
BL	0.375
NCL-Hi	0.643
Blank	ND*

*Minimum Detection Limit is ca. 0.25 ppm

Note: Matrix Spike and matrix spike duplicate results are with TCLP results.

TCLP Extracts

Selenium ~~Arsenic~~ - EPA 7741

	mg/L (ppm)
CNS	0.009
AOS	0.045
BS	0.006
NCL-Lo	0.007
NCS-Hi	0.008
NCS-Lo	0.041
NCS-Soil	0.012
NFL	0.006
A26	0.025
A88	ND*
Blank	ND*
Spike 0.10 ppm (NFL)	0.071 65% recovery
spike duplicate	0.090 84% recovery

*Minimum Detection Limit is ca. 0.005 ppm (5 ppb)

(Continued...)

RCRA Total Metals (EPA 3050 digest)

Mercury - EPA 7470

	mg/kg (ppm)
CNL	ND*
AOL	ND*
BOL	0.27
BL	ND
NCL-Hi	ND
Blank	ND*

*Minimum Detection Limit is ca. 0.25 ppm

Note: Matrix Spike and matrix spike duplicate results are with TCLP results.

TCLP Extracts

Mercury - EPA 7470

	mg/L (ppm)
CNS	0.005
AOS	ND*
BS	0.030
NCL-Lo	0.010
NCS-Hi	0.007
NCS-Lo	0.010
NCS-Soil	0.010
NFL	ND*
A26	0.006
A88	ND*
Blank	ND*
Spike 0.1 ppm (NFL)	0.121
	121% recovery
spike duplicate	0.189
	94.5% recovery

*Minimum Detection Limit is ca. 0.005 ppm (5 ppb)

(Continued..)

SLUDGE
WASTE RECEIVING FORM

GENERATOR SJOB PEATING

M-LOG # 92-171-01 #1

MANIFEST # 90029 28d

DRUM #'s 1

EPA ID # NVD982488793

TRACKING # 593-021

DATE/TIME 1-28-93

RECEIVING AREA Chrome Pool

PRESCREEN		TRUCK	PRESCREEN		TRUCK
pH	5.60	5.4	~~Density~~	1.931 (L.D.)	1.005 (S.G.)
Color	ORANGE	ORANGE	# Phases	1	1
TOC mg/l	72,425.0	STRONG COLOR INTERFERENCE	% Solids	100.0	100.0
Free Liquid	ND	ND	Fe % wt.	<0.01	0.0
Ag % wt.	<0.01	0.0	P % wt.	<0.01	<0.01
As % wt.	NA	NA	Ni % wt.	<0.01	0.0
Cd % wt.	<0.01	0.0	Pb % wt.	<0.01	0.0
Cr % wt.	38.25	26.51	Sn % wt.	NA	NA
Cu % wt.	<0.01	0.0	Zn % wt.	<0.01	0.0
CN mg/l	ND	NA	% Moisture	12.0	NA

% wt. values are based upon dry analysis.

☐ NEW TREATABILITY

☐ SATISFIED MARKETING CRITERIA

☐ PRICE INCREASE

☐ DRUM HANDLING

☒ COST FEASIBILITY STUDY NECESSARY

Approved by: M Lauber Date/Time 1/29/93

Received by: Date/Time

Manifest volume Actual volume

# of Containers Sample fee

Customer # Customer PO# Price

1 20 91

SLUDGE TRUCK REPORT

TRACKING: S93-021

M-LOG: (92)-(171)-(01) 41

EPA ID No.: NVD982488493

MANIFEST #: 90029 28d

MANIFEST VOLUME: 1 20m

RECEIVING AREA:

COMPANY: SJUB PLATING

DATE & TIME: 7-28-93

GWP SUMMARY:

WASTE CODE:

% MOISTURE: NA pH: 5.4

CYANIDE (Y/N): NA

COLOR: ORANGE

*ALL VALUES ARE BASED UPON DRY WT.

LIQUID DISPLACEMENT SG = 1.005

QUICK DIGEST ☐

REGULAR DIGEST ☐

	FREE LIQUID	FILTRATE	FILTER CAKE	* % BY WEIGHT
Ag			0.0	0.0
Al			0.7	<0.01
As				
Au			0.0	0.0
B			0.0	0.0
Ba			NA 0.0	NA 0.0
Ca			50.2	0.16
Cd			0.0	0.0
Cl				
Cr			8218.0	26.57
Cu			0.0	0.0
Fe			0.0	0.0
Hg			NA	NA
K				
Mg			18.3	0.06
Na				
Ni			0.0	0.0
NO3				
P			0.5	<0.01
Pb			0.0	0.0
Se			NA	NA
Sn				
SiO2				
SO4			0.0	0.0
Zn				
S.G.				
TOC			12,000.0	38.71
NH3				
CN				

strong color interference for TOC.

NA - Not Analyzed
ND - None Detected

TESTING PERFORMED BY:

REVIEWED BY: [signature]

1/30/91

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID M92-171-01 #1 LAB NO. 0193-384

SUBMITTED BY EW DATE/TIME 1-28-93

DATA FILE NUMBER 028B

PRETREATMENT

AS IS	
FILTERED	
pH <2	1
H_2O =	2

ICP METALS (MG/L)

Ag	0.0
Al	0.7
Au	0.0
B	0.0
Ca	50.2
Cd	0.0
Cr	8218.0
Cu	0.0
Fe	0.0
Mg	18.3
Mn	0.0
Ni	0.0
P	0.5
Pb	0.0
Zn	0.0
Ba	0.0

AA METALS (MG/L)

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

OTHER (MG/L)

NH_3	
Cl_2	
O&G	
TOC	12,000.0
As	

pH	5.4
SG	

H_2O SOL. IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{+6}	
Cr^{+6}/Cr Tot	

CN ANALYSIS (Units)
MG/KG ___
MG/L ___

CN SPOT	—

DISTILLATION

TOTAL	
NON-AMEN	
AMENABLE	

FIRE ASSAY
Wet Sample ___
Dry Sample ___
G DIGEST/250 ML

ACID	
H_2O	
QACID	

ACID %	
H_2O %	
QACID %	
ACID % IR	
H_2O % IR	
% MOIST.	

INITIAL PHASE:

___ Liquid

X Solid

Generator SJOB PLATING

Profile # M92-171-01

Tracking # S93-021

Drum # 1

REG DIGEST

3.10g/100ml

ANALYZED BY JE/SK DATE: 1-28-93

APPROVED BY ___ DATE: ___

0193-384-1/100 1139 1/28/93

SeTr	AV	-0.33	SD	0.158	CV	47.62
MoTr	AV	-1.02	SD	0.277	CV	27.06
CrTr	AV	82.18	SD	5.345	CV	6.50
SbTr	AV	0.60	SD	0.150	CV	25.07
WTr	AV	0.88	SD	1.226	CV	139.88
ZnTr	AV	-0.12	SD	0.017	CV	13.81
CdTr	AV	-0.09	SD	0.021	CV	22.60
PTr	AV	0.12	SD	0.072	CV	62.14
PbTr	AV	-0.15	SD	0.056	CV	36.63
CoTr	AV	-0.04	SD	0.008	CV	19.72
NiTr	AV	-0.08	SD	0.001	CV	1.90
BaTr	AV	-0.41	SD	0.001	CV	0.31
AuTr	AV	-0.84	SD	0.239	CV	28.58
BTr	AV	-3.11	SD	0.065	CV	2.08
MnTr	AV	-0.07	SD	0.018	CV	24.87
FeTr	AV	-0.16	SD	0.031	CV	19.31
MgTr	AV	-0.07	SD	0.065	CV	97.50
SnTr	AV	22.04	SD	1.101	CV	5.00
VTr	AV	-0.05	SD	0.042	CV	84.27
BiTr	AV	0.00	SD	0.035	CV	1697.25
AlTr	AV	-0.01	SD	0.099	CV	1657.93
CaTr	AV	-0.24	SD	0.069	CV	27.99
CuTr	AV	-0.06	SD	0.021	CV	36.61
AgTr	AV	-0.05	SD	0.007	CV	13.76
TiTr	AV	1.36	SD	0.290	CV	21.34
ScTr	AV	450982.0	SD	46632.3	CV	10.3

0193-384 1/10 1147 1/28/93

SeTr	AV	-0.18	SD	0.151	CV	85.05
MoTr	AV	-1.49	SD	0.027	CV	1.82
CrTr	AV	~~879.96~~	SD	39.112	CV	4.44
SbTr	AV	7.67	SD	0.339	CV	4.42
WTr	AV	-3.03	SD	1.086	CV	35.78
ZnTr	AV	-0.05	SD	0.005	CV	9.53
CdTr	AV	-0.06	SD	0.002	CV	3.28
PTr	AV	0.05	SD	0.219	CV	455.35
PbTr	AV	-0.98	SD	0.184	CV	18.72
CoTr	AV	0.25	SD	0.009	CV	3.59
NiTr	AV	-0.05	SD	0.012	CV	23.39
BaTr	AV	-0.59	SD	0.035	CV	5.96
AuTr	AV	-1.19	SD	0.067	CV	5.63
BTr	AV	-3.29	SD	0.076	CV	2.32
MnTr	AV	-0.04	SD	0.006	CV	15.06
FeTr	AV	-0.01	SD	0.007	CV	94.91
MgTr	AV	1.83	SD	0.044	CV	2.39
SnTr	AV	251.42	SD	16.276	CV	6.47
VTr	AV	2.62	SD	0.561	CV	21.38
BiTr	AV	0.00	SD	0.088	CV	13779.88
AlTr	AV	0.07	SD	0.019	CV	25.25
CaTr	AV	5.02	SD	0.093	CV	1.85
CuTr	AV	-0.03	SD	0.023	CV	77.59
AgTr	AV	-0.05	SD	0.007	CV	14.75
TiTr	AV	1.72	SD	0.056	CV	3.24
ScTr	AV	389297.5	SD	5810.3	CV	1.5

not originally profiled

1.e)

SLUDGE TRUCK REPORT

TRACKING: S93-023

M-LOG: (93)-(011)-(01) #1

EPA ID No.: NVD982488793

MANIFEST #: 90029 286

MANIFEST VOLUME: 1

RECEIVING AREA: OPS

COMPANY: SJOB PLATING

DATE & TIME: 1-28-93

GHP SUMMARY:

WASTE CODE: —

% MOISTURE: 11.8 pH: >12.5

CYANIDE (Y/N): ND

COLOR: Ben/white

*ALL VALUES ARE BASED UPON DRY WT.

	FREE LIQUID	FILTRATE	FILTER CAKE	* % BY WEIGHT
			0.0	0.0
Ag			114.4	1.14
Al				
As			0.0	0.0
Au			0.0	0.0
B			NA 0.0	NA 0.0
Ba			59.8	0.60
Ca			0.0	0.0
Cd				
Cl			8.3	0.08
Cr			6.6	0.07
Cu			7.2	0.07
Fe			NA	NA
Hg				
K			28.5	0.29
Mg				
Na			10.3	0.10
Ni				
NO3			128.3	1.28
P			0.5	<0.01
Pb			NA	NA
Se			2.9	0.03
Sn				
SiO_2				
SO4				
Zn			0.8	<0.01
S.G.				
TOC			203.6	1.26
NH_3				
CN				

LIQUID DISPLACEMENT 1.804

QUICK DIGEST ☐

REGULAR DIGEST ☒

Acid IR 10.3%
H_2O IR

12,590.0 ppm = TIC

NA - Not Analyzed
ND - None Detected

TESTING PERFORMED BY:

REVIEWED BY: M Kawaki

SLUDGE
WASTE RECEIVING FORM

GENERATOR SJOB Plating
M-LOG # M93-011-01
MANIFEST # 90029
DRUM #'s 1

EPA ID # NVD 982488793
TRACKING # S93-023
DATE/TIME 1-28-93
RECEIVING AREA 80 yds

PRESCREEN	TRUCK	PRESCREEN	TRUCK
pH	12.5	~~Density~~ LB	1.804
Color	Brn/white	# Phases	1
TOC mg/l	12,590.0	% Solids	100.0
Free Liquid	ND	Fe % wt.	0.07
Ag % wt.	0.0	P % wt.	1.28
As % wt.	NA	Ni % wt.	0.10
Cd % wt.	0.0	Pb % wt.	<0.01
Cr % wt.	0.08	Sn % wt.	0.03
Cu % wt.	0.07	Zn % wt.	<0.01
CN mg/l	N.D.	% Moisture	11.8

% wt. values are based upon dry analysis.

☐ NEW TREATABILITY

☐ SATISFIED MARKETING CRITERIA

☐ PRICE INCREASE

☐ DRUM HANDLING

☒ COST FEASIBILITY STUDY NECESSARY

Approved by: [signature] Date/Time 2/24/93

Received by: _____ Date/Time _____

Manifest volume _____ Actual volume _____

# of Containers _____ Sample fee _____

Customer # _____ Customer PO _____ Price _____

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID M93-011-01 W1 LAB NO. 0293-050

SUBMITTED BY EW DATE/TIME 1-28-93

DATA FILE NUMBER 033B

JE GA

PRETREATMENT	
AS IS	
FILTERED	
pH <2	
H_2O =	

AA H_2O CATIONS (MG/L)	
Na^+	
K^+	

CN ANALYSIS (Units)	
MG/KG	
MG/L	
CN SPOT	
DISTILLATION EW	
TOTAL	
NON-AMEN	
AMENABLE	

FIRE ASSAY
Wet Sample ✓
Dry Sample
G DIGEST/250 ML

ACID	2.5g
H_2O	10.0g
QACID	

ACID %	6
H_2O %	16
QACID %	
ACID % IR	10.3
H_2O % IR	
% MOIST.	11.8

Sample destroyed drying pan. JGapy

ICP METALS (MG/L)

Ag	0.0
Al	114.4
Au	0.0
B	0.0
Ca	59.8
Cd	0.0
Cr	8.3
Cu	6.6
Fe	7.2
Mg	28.5
Mn	0.0
Ni	10.3
P	128.3
Pb	0.5
Zn	0.8
Ba	0.0

OTHER (MG/L)

NH_3	
Cl_2	
O&G	
TOC	503.6
As	

pH	
SG	

H_2O SOL. IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{3-}	
Cr^{+7} Cr Tot	

INITIAL PHASE:

___ Liquid

X Solid

Generator SDB PLATING

Profile # M93-011-01

Tracking # S93-023

Drum # 1

REG D.

AA METALS (MG/L)

ANALYZED BY JK/JE DATE:

APPROVED BY DATE:

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID M93-011-01 4/ LAB NO. 0193-414

SUBMITTED BY EW DATE/TIME 1-28-93

DATA FILE NUMBER

PRETREATMENT	
AS IS	X
FILTERED	
pH <2	
H_2O =	

ICP METALS (MG/L)	
Ag	0.0
Al	7.7
Au	0.0
B	0.0
Ca	1398.4
Cd	0.0
Cr	17.0
Cu	16.3
Fe	198.3
Hg	60.5
Mn	0.0
Ni	19.8
P	207.7
Pb	2.8
Zn	23.8
Ba	0.0

AA METALS (MG/L)	

AA H_2O CATIONS (MG/L)	
Na^+	
K^+	

OTHER (MG/L)	
NH_3	
Cl_2	
O&G	
TOC	
As	
pH	>12.5
SG	

H_2O SOL. IONS (MG/L)	
Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
CO_3^{2-}	
CO_3 + CO_3 TOC	

CN ANALYSIS (Units) MG/KG ___ MG/L ___	
CN SPOT	
DISTILLATION	
TOTAL	ND
NON-AMEN	
AMENABLE	

INITIAL PHASE:

___ Liquid

X Solid

Generator SOB PLATING

Profile # M93-011-01

Tracking # ~~S93-023~~ S93-023

Drum # 1

Quick D.

FIRE ASSAY

Wet Sample ___
Dry Sample ___
G DIGEST/250 ML

ACID	
H_2O	
QACID	5.03g

ACID %	
H_2O %	
QACID %	13
ACID % IR	
H_2O % IR	
% MOIST.	

ANALYZED BY M DATE:

APPROVED BY DATE:

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID m93-011-01

LAB NO. 0193-392

SUBMITTED BY EW

DATE/TIME 1-28-93

DATA FILE NUMBER

PRETREATMENT	
AS IS	
FILTERED	
pH <2	
H_2O_2	

ICP METALS (MG/L)	
Ag	
Al	
Au	
B	
Ca	
Cd	
Cr	
Cu	
Fe	
Hg	
Mn	
Ni	
P	
Pb	
Zn	
Ba	

AA METALS (MG/L)	

AA H_2O CATIONS (MG/L)	
Na^+	
K^+	

OTHER (MG/L)	
NH_3	
Cl_2	
O&G	
TOC	
As	

pH	
SG	

H_2O SOL. IONS (MG/L)	
Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{+3}	
Cr^{+3}/Cr Tot	

CN ANALYSIS (Units)	
MG/KG	
MG/L	
CN SPOT	N.O.
DISTILLATION	
TOTAL	
NON-AMEN	
AMENABLE	

FIRE ASSAY	
Wet Sample	
Dry Sample	
G DIGEST/250 ML	
ACID	
H_2O	
QACID	

ACID %	
H_2O %	
QACID %	
ACID % IR	
H_2O % IR	
% MOIST.	

INITIAL PHASE:

___ Liquid

Y Solid

Generator 550B

Profile # M93-011-01

Tracking # ~~S93-023~~ S93-023

Drum # 1

ANALYZED BY JK

DATE: 1-28-93

APPROVED BY

DATE:

JAN-29-1997

2095 Newlands Drive East, Fernley, Nevada 89408
1-800-648-9931

GENERATOR'S WASTE MATERIAL PROFILE SHEET

PROFILE NUMBER 6269
LOG # M93-011-01
DATE RECEIVED IN LAB

B.S.

M93-011-01

GENERAL INFORMATION

GENERATOR NAME: U.S. EPA Region 9 / SSOB Plating
FACILITY ADDRESS: 612 Martin Luther King Blvd. Las Vegas, NV
TRANSPORTER:
TRANSPORTER PHONE:
GENERATOR USEPA I.D. NVD 982 459 793
GENERATOR STATE I.D.
CUSTOMER NAME: CET Environmental
ADDRESS: 9706 4th NE, Suite 101 Seattle, WA
TECHNICAL CONTACT: Jeff Webb TITLE
PHONE (206) 525-7768
NAME OF WASTE: Base Solid
PROCESS GENERATING WASTE: Superfund Clean-up @ Metal Plating Site

B. PHYSICAL CHARACTERISTICS OF WASTE

COLOR: Varies

ODOR: ☒ NONE ☐ MILD ☐ STRONG DESCRIBE

PHYSICAL STATE AT 70° F: ☒ SOLID ☐ SEMI-SOLID ☐ LIQUID ☐ POWDER

LAYERS: ☒ MULTILAYERED ☐ BILAYERED ☐ SINGLE-PHASED

FREE LIQUIDS ☐ YES ☒ NO VOLUME %

pH: ☐ <2 ☐ 2.0 - 4.0 ☐ 4.1 - 6.9 ☒ 7.0 - 10.0 ☒ 10.1 - 12.50 ☐ >12.5 ☐ EXACT ☐ N/A

SPECIFIC GRAVITY: ☐ <.8 ☐ .8-1.0 ☐ 1.0-1.1 ☐ 1.1-1.2 ☐ 1.2-1.3 ☐ 1.3-1.5 ☐ 1.5-1.7 ☐ >1.7 ☐ EXACT

FLASH POINT °C N/A CC/OC

TOTAL ORGANIC CONTENT (PPM)
☐ % BY WEIGHT ☐ % BY VOLUME

C. CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

Metal Precipitates, Flakes	(85-100)%
+ Solids	( )%
Total Metals	(0-1)%
Total Cyanides	(0-100 ppm)%
Debris - Soil, Wood, Plastic,	(0-15)%
Paper	( )%
	( )%
See Attached Analysis	( )%

D. METALS ☐ TOTAL (PPM) ☒ TCLP MG/L

ALUMINUM		IRON (Fe)	
ARSENIC (As)	.104	LEAD (Pb)	2.5
BARIUM (Ba)	ND	MERCURY (Hg)	.03
BORON (B)		NICKEL (Ni)	24.3
CADMIUM (Cd)	ND	SELENIUM (Se)	.006
CHROMIUM (Cr)	145	SILVER (Ag)	ND
CHROMIUM HEX (Cr + 6)	3.9	TIN (Sn)	
COPPER (Cu)	61.5	ZINC (Zn)	
GOLD (Au)		OTHER(S)	

E. OTHER COMPONENTS - TOTAL (PPM)

NITRATES
SULFIDES
CYANIDES
OIL AND GREASE

F. SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL? ☒ YES ☐ NO
PROPER SHIPPING NAME RQ Hazardous Waste Solid, NOS
HAZARDOUS CLASS 9 I.D. NO. NA 3077 R.Q. 10
METHOD OF SHIPMENT ☐ BULK LIQUID ☐ BULK SOLID ☒ DRUM (TYPE / SIZE) 17H / 55
ANTICIPATED VOLUME: GALS. CUBIC YARDS
5 OTHER Drums
PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR

G. HAZARDOUS CHARACTERISTICS

REACTIVITY: ☒ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☐ OTHER

OTHER HAZARDOUS CHARACTERISTICS
☒ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☐ OTHER

US EPA HAZARDOUS WASTE? ☒ YES ☐ NO
US EPA HAZARDOUS CODE(S) D007
STATE HAZARDOUS WASTE? ☐ YES ☒ NO
STATE CODE(S)

H. SPECIAL HANDLING INFORMATION

☐ ADDITIONAL PAGE(S) ATTACHED

I CERTIFY THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED AND ALL ATTACHED DOCUMENTS, AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THAT THE SUBMITTED INFORMATION IS TRUE AND COMPLETE.

AUTHORIZED SIGNATURE

Federal On-Scene Coordinator US EPA
TITLE

1-29-93
DATE

P.S.

CERTIFICATION OF WASTE STATUS BY TCLP

Log # M93-011-01

Generator: U.S. EPA Region 9 / SJOB Plating

Profile: 6269 Waste Codes: D007

Waste Description: Bass Solids

The waste identified by the above referenced profile number exhibits the following characteristic constituents as determined by the TCLP method or generator knowledge of the waste as referenced in 40 CFR 261.24 (dated 1991).

☐ None as listed in 40 CFR Part 261 Subpart C for D004 through D043.

☐ The material exeeds the regulated threshold level for the following constituents as determined by the Toxic Characteristic Leach Procedure (TCLP) as referenced in 40 CFR 261.24(a).

- ☐ Arsenic (D004)
- ☐ Barium (D005)
- ☐ Benzene (D018)
- ☐ Cadmium (D006)
- ☐ Carbon Tetrachloride (D019)
- ☐ Chlordane (D020)
- ☐ Chlorobenzene (D021)
- ☐ Chloroform (D022)
- ☑ Chromium (D007)
- ☐ o-Cresol (D023)
- ☐ m-Cresol (D024)
- ☐ p-Cresol (D025)
- ☐ Cresol (D026)
- ☐ 2, 4-D (D016)
- ☐ 1, 4-Dichlorobenzene (D027)
- ☐ 1, 2-Dichloroethane (D028)
- ☐ 1, 1-Dichloroethylene (D029)
- ☐ 2, 4-Dinitrotoluene (D030)
- ☐ Endrin (D012)
- ☐ Heptachlor (D031)
- ☐ Hexachlorobenzene (D032)
- ☐ Hexachlorobutadiene (D033)
- ☐ Hexachloroethane (D034)
- ☐ Lead (D008)
- ☐ Lindane (D013)
- ☐ Mercury (D009)
- ☐ Methoxychlor (D014)
- ☐ Methylethylketone (D035)
- ☐ Nitrobenzene (D036)
- ☐ Pentrachlorophenol (D037)
- ☐ Pyridine (D038)
- ☐ Selenium (D010)
- ☐ Silver (D011)
- ☐ Tetrachloroethylene (D039)
- ☐ Toxaphene (D015)
- ☐ Trichloroethylene (D040)
- ☐ 2, 4, 5-Trichlorophenol (D041)
- ☐ 2, 4, 5-Trichlorophenol (D042)
- ☐ 2, 4, 5-TP (Silvex) (D017)
- ☐ Vinyl Chloride (D043)

CERTIFICATION

I certify that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste exhibits only characteristics as marked above from 40 CFR Part 261 Subpart C (as effective on 9/25/90). I believe that the information I am submitting is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification including the possibility of a fine and imprisonment.

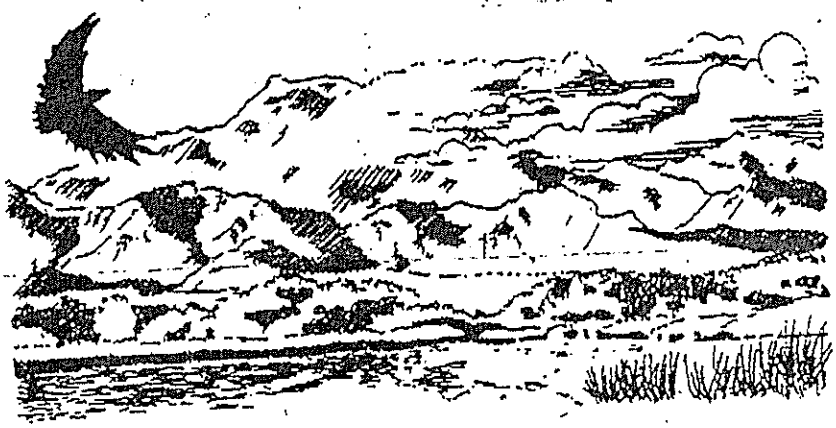
Richard Wm. Martyn
Printed Name

Richard Martyn
Signature

1-29-93
Date

U.S. EPA On-Scene Coordinator
Title

FACSIMILE TRANSMITTAL COVER SHEET



To: BRYON BRAD

From: WEBB

Date:

Number of Pages (Including Cover Page):

THIS WAS ORIGINALLY TO HAVE
GONE TO CWM. HERE IS THEIR
PROFILE + THE LAB DATA.
LAB ABBREVIATION IS 'BS'

CET Environmental Services, Inc.
9706 4th Avenue N.E., Suite 101
Seattle, Washington 98115

Telephone:
(206) 525-9168

Toll Free:
(800) 753-9168

Fax:
(206) 525-9521

File No. 1092384

RCRA Total Metals (EPA 3050 digest)

Arsenic - EPA 7061

	mg/kg (ppm)
CNL	ND*
AOL	1.69
BOL	0.468
BL	0.492
NCL-Hi	0.492
Blank	ND*

*Minimum Detection Limit is ca. 0.10 ppm

Note: Matrix Spike and matrix spike duplicate results are with TCLP results.

TCLP Extracts

Arsenic - EPA 7061

	mg/L (ppm)
CNS	0.247
AOS	0.022
BS	0.104
NCL-Lo	0.004
NCS-Hi	ND*
NCS-Lo	0.003
NCS-Soil	0.004
NFL	ND*
A26	ND*
A88	ND*
Blank	ND*
Spike 0.05 ppm (NFL)	0.046 91.4% recovery
spike duplicate	0.049 98.0% recovery

*Minimum Detection Limit is ca. 0.002 ppm (2 ppb)

(Continued...)

RCRA Total Metals (EPA 3050 digest)

mg/kg (ppm)

	Cr	Ba	Cu	Pb	Cd	Ni	Ag	Cr^{+6}
CNL	102	ND	12,800	34.7	3080	83.0	27.5	ND
AOL	17,300	ND	16,600	26.9	90.9	5,520	ND	230
BOL	122	ND	300	15.4	3.85	36.1	ND	7.8
BL	67.6	ND	300	18.8	2.91	58.6	ND	ND
NCL.HI	1,120	ND	259	26.9	2.92	3,280	ND	25.2

IV. TCLP EXTRACTS:

mg/L (ppm)

	Cr	Ba	Cu	Pb	Cd	Ni	Ag	Cr^{+6}
CNS	10.8	ND	12,400	3.7	36	49.3	400	0.13
AOS	3.5	ND	742	4.3	6.3	45.8	ND	ND
BS	145	ND	61.5	2.5	ND	24.3	ND	3.9
NCL-Lo	ND	ND	52.8	2.4	ND	17.9	ND	ND
NCS-Hi	0.65	ND	58.9	2.5	0.60	224	ND	ND
NCS-Lo	0.10	ND	56.8	2.4	ND	5.8	ND	51.6
NCS-Soil	22.4	ND	49.7	2.2	ND	5.1	ND	1.7
NFL	1.1	ND	53.3	2.6	ND	5.6	ND	ND
A26	4.3	ND	45.9	2.9	ND	16.7	ND	ND
A88	8,960	ND	61.0	4.4	0.40	5.5	ND	5,200
Detection Limit:	0.05	5	0.05	0.10	0.01	1.0	0.1	0.05

% Spike Recovery

	Cr	Ba	Cu	Pb	Cd	Ni	Ag	Cr^{+6}
Spike	85	85	95	95	93	92	85	80%
Spike Dup.	85	87	95	95	94	90	85	80%

Methods:

Chromium (total) 7190, (hexavalent) 7195
Barium 7080
Lead 7420
Nickel 7520
Copper 7210
Cadmium 7130
Silver 7760

(Continued...)

File No. 1092384

RCRA Total Metals (EPA 3050 digest)

Selenium - EPA 7741

	mg/kg (ppm)
CNL	0.723
AOL	ND*
BOL	0.250
BL	0.375
NCL-Hi	0.643
Blank	ND*

*Minimum Detection Limit is ca. 0.25 ppm

Note: Matrix Spike and matrix spike duplicate results are with TCLP results.

TCLP Extracts

~~Arsenic~~ Selenium - EPA 7741

	mg/L (ppm)
CNS	0.009
AOS	0.045
BS	0.006
NCL-Lo	0.007
NCS-Hi	0.008
NCS-Lo	0.041
NCS-Soil	0.012
NFL	0.006
A26	0.025
A88	ND*
Blank	ND*
Spike 0.10 ppm (NFL)	0.071 65% recovery
spike duplicate	0.090 84% recovery

*Minimum Detection Limit is ca. 0.005 ppm (5 ppb)

(Continued...)

RCRA Total Metals (EPA 3050 digest)

Mercury - EPA 7470

	mg/kg (ppm)
CNL	ND*
AOL	ND*
BOL	0.27
BL	ND
NCL-Hi	ND
Blank	ND*

*Minimum Detection Limit is ca. 0.25 ppm

Note: Matrix Spike and matrix spike duplicate results are with TCLP results.

TCLP Extracts

Mercury - EPA 7470

	mg/L (ppm)
CNS	0.005
AOS	ND*
BS	0.030
NCL-Lo	0.010
NCS-Hi	0.007
NCS-Lo	0.010
NCS-Soil	0.010
NFL	ND*
A26	0.006
A88	ND*
Blank	ND*
Spike 0.1 ppm (NFL)	0.121
	121% recovery
spike duplicate	0.189
	94.5% recovery

*Minimum Detection Limit is ca. 0.005 ppm (5 ppb)

(Continued..)

Chemical Waste Management, Inc.

AK5885
Profile #

WASTE PROFILE

go to Eleen

☐ Check here if this is a Recertification

LOCATION OF ORIGINAL _____

GENERAL INFORMATION

1. GENERATOR NAME: U.S. EPA REGION 9 / SJOB PLATING Generator USEPA ID: NVD982488793
2. Generator Address: 612 MARTIN LUTHER KING BLVD. LAS VEGAS, NV Billing Address: ☐ Same CET ENVIRONMENTAL 9706 4TH NE SUITE 101 SEATTLE, WA 98115
3. Technical Contact/Phone: JEFF WEBB (206)525-9168
4. Alternate Contact/Phone: MIKE TAYLOR (206)525-9168 Billing Contact/Phone: JEFF BACHMAN

PROPERTIES AND COMPOSITION

5. Process Generating Waste: SUPERFUND CLEAN-UP AT METAL PLATING SHOP
6. Waste Name: BASE SOLIDS

7A. Is this a USEPA hazardous waste (40 CFR Part 261)? Yes ☒ No ☐

B. Identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U): D007

State Waste Codes: _____

8. Physical State @ 70°F: A. Solid ☒ Liquid ☐ Both ☐ B. Single Layer ☐ Multilayer ☒ C. Free liquid range _____ to _____ %

9A. pH: Range 9 to 12 or Not applicable ☐ B. Strong Odor ☐: describe _____

Liquid Flash Point: < 73°F ☐ 73-99°F ☐ 100-139°F ☐ 140-199°F ☐ ≥ 200°F ☒ N.A. ☐ Closed Cup ☐ Open Cup ☐

11. CHEMICAL COMPOSITION: List ALL constituents (including halogenated organics) present in any concentration and forward available analysis.

Constituents	Range	Units	Constituents	Range	Units
METAL PRECIPITATES, FLAKES AND SOLIDS,	90-100	%	SEE ATTACHED ANALYSIS		
TOTAL HEAVY METAL	0 - 1	%			
DEBRIS INCLUDING SOIL, WOOD, PLASTIC, PAPER	0 - 15	%			
TOTAL CYANIDE	0 - 100	PPM			

TOTAL COMPOSITION MUST EQUAL OR EXCEED 100%

12. OTHER: PCBs if yes, concentration ____ ppm. PCBs regulated by 40 CFR 761 ☐. Pyrophoric ☐ Explosive ☐ Radioactive ☐
Benzene if yes, concentration ____ ppm. Shock Sensitive ☐ Oxidizer ☐ Carcinogen ☐ Infectious ☐ Other _____

13. If the waste is subject to the land ban and meets the treatment standards, check here: ____ and supply analytical results where applicable.

SHIPPING INFORMATION

14. PACKAGING: Bulk Solid ☐ Bulk Liquid ☐ Drum ☒ Type/Size: 17H / 55 Other _____
15. ANTICIPATED ANNUAL VOLUME: 5 Units: DRUMS Shipping Frequency: 1 TIME

SAMPLING INFORMATION

16a. Sample source (drum, lagoon, pond, tank, vat, etc.) DRUMS

Date Sampled: 10/27/92 Sampler's Name/Company: JEFF WEBB / CET ENVIRONMENTAL

16b. Generator's Agent Supervising Sampling: JEFF WEBB 17. ☐ No sample required (See instructions.)

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize CWM to obtain a sample from any waste shipment for purposes of recertification.

Signature	Printed (or typed) name and title	Date
[signature]	Richard Wm MARTYN - OSC	12-4-92

CWM Form 6000-C replaces and is equivalent to the following forms: CWM-51, CWM-6000, CWM 50-A and CWM 50-B

Printed on recycled paper

C O N F I D E N T I A L BUSINESS INFORMATION REMOVED

ETICAM

MAIFEST F-LOG (92)-(273)-(01)

LICAV

7095 Newlands Drive East, Fernley, Nevada 89408
1-800-648-9931

GENERATOR'S WASTE MATERIAL PROFILE SHEET

PROFILE NUMBER
LOG #
DATE RECEIVED IN LAB

A. GENERAL INFORMATION

GENERATOR NAME: U.S. EPA - REGION 9 / SJOB PLATING
FACILITY ADDRESS: 612 MARTIN LUTHER KING BLVD. LAS VEGAS, NV.
TECHNICAL CONTACT: JEFF WEBB TITLE
NAME OF WASTE: NON FLAMMABLE LIQUIDS PHONE (206) 525-9168
PROCESS GENERATING WASTE: SUPERFUND CLEAN-UP @ METAL PLATING SHOP

TRANSPORTER:
TRANSPORTER PHONE
GENERATOR USEPA I.D NVD982488293
GENERATOR STATE I.D.
CUSTOMER NAME: CET ENVIRONMENTAL
ADDRESS: 9706 4TH NE, SUITE 101 SEATTLE, WA 98115

B. PHYSICAL CHARACTERISTICS OF WASTE

COLOR: VARIES

VISCOSITY: ☐ HIGH ☒ MEDIUM ☐ LOW

ODOR: ☐ NONE ☐ MILD ☐ STRONG DESCRIBE

PHYSICAL STATE AT 70° F: ☐ SOLID ☐ SEMI-SOLID ☒ LIQUID ☐ POWER

LAYERS: ☐ MULTIBAVERED ☒ BILATERED ☐ SINGLE-PHASED

FREE LIQUIDS: ☒ YES ☐ NO VOLUME %

pH: ☐ < 2 ☐ 2 - 4 ☒ 4.1 - 6.9 ☐ 7 ☒ 7.1 - 10 ☐ 10.1 - 12.5 ☐ >12.5 ☐ EXACT ☐ N/A

SPECIFIC GRAVITY: ☐ <.8 ☐ .8 - 1.0 ☒ 1.1 - 1.2 ☐ EXACT ☐ 1.3 - 1.4 ☐ 1.5 - 1.7 ☐ >1.7

FLASH POINT: ☐ <70°F ☐ 70°F - 100°F ☐ 101°F - 139°F ☐ 140°F - 200°F ☒ >200°F ☐ NO FLASH ☐ EXACT ☐ CLOSED CUP ☐ OPEN CUP

C. CHEMICAL COMPOSITION (TOTALS MUST ADD TO 100%)

OIL + GREASE	(38.3)%
WATER	(60)%
DEBRIS	(0 - 15)%
	( )%
	( )%
	( )%
	( )%
	( )%

D. METALS

☐ TOTAL (PPM) ☒ EPA EXTRACTION PROCEDURE (mg/L)

GOLD (Au)		TIN (Sn)	
IRON (Fe)		SILVER (Ag)	ND
CADMIUM (Cd)	ND	COPPER (Cu)	53.3
CHROMIUM (Cr)	1.1	NICKEL (Ni)	5.6
MERCURY (Hg)	ND	ZINC (Zn)	
LEAD (Pb)	2.6	SELENIUM (Se)	.006
CHROMIUM HEX (Cr + 6)	ND	BORON (B0)	
ARSENIC (As)	ND	OTHER(S)	
BARIUM (Ba)	ND		

E. OTHER COMPONENTS - TOTAL (PPM)

TOX = 142 TOC = 23,000

CYANIDES	< 100 ppm	CHLORINED SOLVENTS	
SULFIDES		PCB'S	
		PHENOLICS	26.4

F. SHIPPING INFORMATION

D.O.T. HAZARDOUS MATERIAL ? ☐ YES ☒ NO
PROPER SHIPPING NAME NON HAZARDOUS WASTE, LIQUID
HAZARDOUS CLASS I.D. NO. R.Q.
METHOD OF SHIPMENT ☐ BULK LIQUID ☐ BULK SOLID ☒ DRUM (TYPE / SIZE) 17E / 55
ANTICIPATED VOLUME: GALS. CUBIC YARDS 7 OTHER DRUMS
PER: ☒ ONE TIME ☐ WEEK ☐ MONTH ☐ QUARTER ☐ YEAR

G. HAZARDOUS CHARACTERISTICS

REACTIVITY: ☒ NONE ☐ PYROPHORIC ☐ SHOCK SENSITIVE ☐ EXPLOSIVE ☐ WATER REACTIVE ☐ OTHER

OTHER HAZARDOUS CHARACTERISTICS: ☒ NONE ☐ RADIOACTIVE ☐ ETIOLOGICAL ☐ PESTICIDE MANUFACTURING WASTE ☐ OTHER

US EPA HAZARDOUS WASTE? ☐ YES ☒ NO
US EPA HAZARDOUS CODE(S)
STATE HAZARDOUS WASTE? ☐ YES ☐ NO
STATE CODE(S)

H. SPECIAL HANDLING INFORMATION

SEE ATTACHED ANALYTICAL

☒ ADDITIONAL PAGE(S) ATTACHED

I CERTIFY THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED AND ALL ATTACHED DOCUMENTS, AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATLY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THAT THE SUBMITTED INFORMATION IS TRUE AND COMPLETE.

AUTHORIZED SIGNATURE — TITLE: Federal On-Scene Coordinator — DATE: 12-4-92

CERTIFICATION OF WASTE STATUS BY TCLP

GENERATOR: U.S. EPA REGION 9 / SJOB PLATING

ACCEPTANCE NO.: _____ WASTE CODES: N/A

AT THE POINT OF GENERATION, THE WASTE IDENTIFIED BY THE ABOVE REFERENCED ACCEPTANCE NUMBER EXHIBITS THE FOLLOWING CHARACTERISTIC CONSTITUENTS AS DETERMINED BY THE TCLP METHOD, AND AS REQUIRED ON SEPTEMBER 25, 1991 IN ACCORDANCE WITH THE FEDERAL REGISTER VOL. %%, no. 61, DATED MARCH 29, 1990:

✓ NONE AS LISTED IN 40 CFR PART 261 SUBPART C FOR D004 THRU D043

___ CHARACTERISTIC OF TOXIC CHARACTERISTIC LEACH PROCEDURE TOXICITY (TCLP) FOR THE FOLLOWING CONSTITUENTS ONLY:

___ ARSENIC (D004)
___ BARIUM (D005)
___ BENZENE (D018)
___ CADMIUM (D006)
___ CARBON TETRACHLORIDE (D019)
___ CHLORDANE (D020)
___ CHLOROBENZENE (D021)
___ CHLOROFORM (D022)
___ CHROMIUM (D007)
___ o-CRESOL (D023)
___ m-CRESOL (D024)
___ p-CRESOL (D025)
___ CRESOL (D026)
___ 2,4-D (D016)
___ 1,4-DICHLOROBENZENE (D027)
___ 1,2-DICHLOROETHANE (D028)
___ 1,1-DICHLOROETHYLENE(D029)
___ 2,4-DINITROTOLUENE (D030)
___ ENDRIN (D012)
___ HEPTACHLOR (D031)
___ HEXACHLOROBENZENE (D032)
___ HEXACHLOROBUTADIENE (D033)
___ HEXACHLOROETHANE (D034)
___ LEAD (D008)
___ LINDANE (D013)
___ MERCURY (D009)
___ METHOXYCHLOR (D014)
___ METHYLETHYLKETONE (D035)
___ NITROBENZENE (D036)
___ PENTRACHLOROPHENOL (D037)
___ PYRIDINE (D038)
___ SELENIUM (D010)
___ SILVER (D011)
___ TETRACHLOROETHYLENE (D039)
___ TOXAPHENE (D015)
___ TRICHLOROETHYLENE (D040)
___ 2,4,5-TRICHLOROPHENOL (D041)
___ 2,4,6-TRICHLOROPHENOL (D042)
___ 2,4,5-TP (SILVEX) (D017)
___ VINYL CHLORIDE (D043)

CERTIFICATION

I certify that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste exhibits only characteristics as marked above from 40 CFR Part 261 Subpart C (as effective on 9/25/90). I believe that the information I am submitting is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification including the possibility of a fine and imprisonment.

Richard Wm Martyn
PRINTED NAME

12-4-92
DATE

Richard Martyn
SIGNATURE

OSC
TITLE

ANALYTICAL LAB REQUEST FOR MARKETING
MARKETING SAMPLE

SAMPLE ID F92-273-01

LAB NO. 1292.316

SUBMITTED BY [illegible]

DATE/TIME 12-17-92

DATA FILE NUMBER 3.52C

PRETREATMENT

AS IS	
FILTERED	3
pH <2	1
H_2O_2	2

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

CN ANALYSIS (Units)
MG/KG ____
MG/L ____

CN SPOT	

DISTILLATION

TOTAL	
NON-AMEN	
AMENABLE	

FIRE ASSAY
Wet Sample ____
Dry Sample ____
G DIGEST/250 ML

ACID	
H_2O	
QACID	

ACID #	
H_2O #	
QACID #	
ACID % IR	
H_2O % IR	
% MOIST.	

ICP METALS (MG/L)

Ag	0.0
Al	11.2
Au	1017
B	22.6
Ca	193.7
Cd	0.5
Cr	22.9
Cu	0.3
Fe	49.1
Mg	38.5
Mn	0.5
Ni	2.2
P	5564.5
Pb	6.5
Zn	191.9

OTHER (MG/L)

NH_3	520,000.0
Cl_2	
O&G	
TOC	37285.0
As	

pH	
SG	

H_2O SOL. IONS (MG/L)

Cl^-	
F^-	44.5
NO_3^-	24653
NO_2^-	
SO_4^{2-}	2073.4
PO_4^{3-}	
Cr^{6+}	
Cr^6/Cr Tot	

INITIAL PHASE:
X Liquid
___ Solid

Generator SOB PLATING

Profile # ____

Limited Amt of sample.
USE CARE.

AA METALS (MG/L)

ANALYZED BY SK/JE/JK DATE: 12/17

APPROVED BY ____ DATE: ____

ANRESCO
INCORPORATED
ANALYSIS RESEARCH

1370 Van Dyke Ave., S.F., CA 94124
Tel: (415) 822-1100 Fax: (415) 822-6615
790 Basin Street, #2, San Pedro, CA 90731
Tel: (310) 833-4598 Fax: (310) 833-1585
Toll Free - 800-359-0920

18 November 1992

C.E.T. Environmental - Seattle
Attn: Mike Taylor
Fax: 206-525-9521

Re: Samples submitted for TOC analysis for Project SJOB

Results:

Sample	TOC, ppm (mg/L)
AOL	1,200
NCL-HI	9,200
NFL	23,000
NCL-Lo	3,400

Reported for ANRESCO, Inc.

By:

E. Jerry Oliveras
Associate Director

ANRESCO
INCORPORATED
ANALYSIS RESEARCH

1370 Van Dyke Ave., S.F., CA 94124
Tel: (415) 822-1100 Fax: (415) 822-6615
790 Basin Street, #2, San Pedro, CA 90731
Tel: (310) 833-4598 Fax: (310) 833-1585
Toll Free - 800-359-0920

07 November 1992

CET Environmental Services
9706 4th Ave., NE, Suite 101
Seattle, WA. 98115

File No. 1092384

Re: Fifteen samples for analysis: Project Name: SJOB
Job #9001-029 Chain of Custody: 9 12817

(PO # 51272)

Received: 10/29/92

RESULTS

Total Organic Carbon :

Estimate of T.O.C.* using gravimetric analysis for a soil sample:

Calculation:

% T.O.C. = 100 - Moisture - ash

Results:

NCS - Hi	Moisture :	22.02 %
	Ash :	60.98 %
	Estimated T.O.C. :	17.00 %

*T.O.C. is Total Organic Carbon

Oil & Grease (SW-846-9070)

Results:

NFL	Sample:	38.3 %
	Duplicate:	39.3 %

(Continued...)

File No. 1092384

RCRA Total Metals (EPA 3050 digest)

mg/kg (ppm)

	Cr	Ba	Cu	Pb	Cd	Ni	Ag	Cr^{+6}
CNL	102	ND	12,800	34.7	3080	83.0	27.5	ND
AOL	17,300	ND	16,600	26.9	90.9	5,520	ND	230
BOL	122	ND	300	15.4	3.85	36.1	ND	7.8
BL	67.6	ND	300	18.8	2.91	58.6	ND	ND
NCL.HI	1,120	ND	259	26.9	2.92	3,280	ND	25.2

IV. TCLP EXTRACTS:

mg/L (ppm)

	Cr	Ba	Cu	Pb	Cd	Ni	Ag	Cr^{+6}
CNS	10.8	ND	12,400	3.7	36	49.3	400	0.13
AOS	3.5	ND	742	4.3	6.3	45.8	ND	ND
BS	145	ND	61.5	2.5	ND	24.3	ND	3.9
NCL-Lo	ND	ND	52.8	2.4	ND	17.9	ND	ND
NCS-Hi	0.65	ND	58.9	2.5	0.60	224	ND	ND
NCS-Lo	0.10	ND	56.8	2.4	ND	5.8	ND	51.6
NCS-Soil	22.4	ND	49.7	2.2	ND	5.1	ND	1.7
NFL	1.1	ND	53.3	2.6	ND	5.6	ND	ND
A26	4.3	ND	45.9	2.9	ND	16.7	ND	ND
A88	8,960	ND	61.0	4.4	0.40	5.5	ND	5,200
Detection Limit:	0.05	5	0.05	0.10	0.01	1.0	0.1	0.05

% Spike Recovery

	Cr	Ba	Cu	Pb	Cd	Ni	Ag	Cr^{+6}
Spike	85	85	95	95	93	92	85	80%
Spike Dup.	85	87	95	95	94	90	85	80%

Methods:

Chromium (total) 7190, (hexavalent) 7195
Barium 7080
Lead 7420
Nickel 7520
Copper 7210
Cadmium 7130
Silver 7760

(Continued...)

RCRA Total Metals (EPA 3050 digest)

Arsenic - EPA 7061

	mg/kg (ppm)
CNL	ND*
AOL	1.69
BOL	0.468
BL	0.492
NCL-Hi	0.492
Blank	ND*

*Minimum Detection Limit is ca. 0.10 ppm

Note: Matrix Spike and matrix spike duplicate results are with TCLP results.

TCLP Extracts

Arsenic - EPA 7061

	mg/L (ppm)
CNS	0.247
AOS	0.022
BS	0.104
NCL-Lo	0.004
NCS-Hi	ND*
NCS-Lo	0.003
NCS-Soil	0.004
NFL	ND*
A26	ND*
A88	ND*
Blank	ND*
Spike 0.05 ppm (NFL)	0.046 91.4% recovery
spike duplicate	0.049 98.0% recovery

*Minimum Detection Limit is ca. 0.002 ppm (2 ppb)

(Continued...)

File No. 1092384

RCRA Total Metals (EPA 3050 digest)

Selenium - EPA 7741

	mg/kg (ppm)
CNL	0.723
AOL	ND*
BOL	0.250
BL	0.375
NCL-Hi	0.643
Blank	ND*

*Minimum Detection Limit is ca. 0.25 ppm

Note: Matrix Spike and matrix spike duplicate results are with TCLP results.

TCLP Extracts

Selenium ~~Arsenic~~ - EPA 7741

	mg/L (ppm)
CNS	0.009
AOS	0.045
BS	0.006
NCL-Lo	0.007
NCS-Hi	0.008
NCS-Lo	0.041
NCS-Soil	0.012
NFL	0.006
A26	0.025
A88	ND*
Blank	ND*
Spike 0.10 ppm (NFL)	0.071 65% recovery
spike duplicate	0.090 84% recovery

*Minimum Detection Limit is ca. 0.005 ppm (5 ppb)

(Continued...)

RCRA Total Metals (EPA 3050 digest)

Mercury - EPA 7470

	mg/kg (ppm)
CNL	ND*
AOL	ND*
BOL	0.27
BL	ND
NCL-Hi	ND
Blank	ND*

*Minimum Detection Limit is ca. 0.25 ppm

Note: Matrix Spike and matrix spike duplicate results are with TCLP results.

TCLP Extracts

Mercury - EPA 7470

	mg/L (ppm)
CNS	0.005
AOS	ND*
BS	0.030
NCL-Lo	0.010
NCS-Hi	0.007
NCS-Lo	0.010
NCS-Soil	0.010
NFL	ND*
A26	0.006
A88	ND*
Blank	ND*
Spike 0.1 ppm (NFL)	0.121 121% recovery
spike duplicate	0.189 94.5% recovery

*Minimum Detection Limit is ca. 0.005 ppm (5 ppb)

(Continued..)

Total Organic Halides

EPA 9020 (modified)

Narrative: Oily waste sample "NFL" was diluted 1:10 with 1 + 1 petroleum ether: isopropylalcohol and direct injected into a Dohrmann DX-20A Total Halides Analyzer.

	Chlorides ppm (mg/kg)
NFL	142
Duplicate	134
	ave. 138 RPD 5.80
Blank (solvent)	ND*
Organic Control (T.C.P) expected 1178 ng/mcL	1.09, 1.11 mcg/mcL 100%
Inorganic Standard (into cell) expected 1104 ng/mcL	1.08, 1.06 mcg/mcL 90.7%

*Minimum Detection Limit is ca. 2.0 ppm

Total & Amendable Cyanide (EPA 9010)

	mg/kg (ppm)	
	Total	Amendable
CNL	4.13%*	4.12%*
CNS	5.20%*	5.19%*
NCL-Hi	18.7	18.7
NCL-Lo	11.7	7.9

Spike (NCL-Lo) (124 ppm) 145
108% recovery

Spike duplicate (12.4 ppm) 27.2
125% recovery

Minimum Detection Limit is ca. 0.5 ppm

* 10,000 ppm = 1.0%

(Continued...)

File No. 1092384

Phenolics - (EPA 9065) - equivalent to NPDES 420.1

	mg/kg (ppm)
NFL	26.4
duplicate	9.9
(waste is non-uniform)	
blank	ND (M.D.L. ca. 0.8 ppm)

Spike recovery @ 7.8 ppm = 87%

Normality via aqueous direct titration -

	eq/L base	eq/L acid
AOL	-	5.55
BOL	0.796	-
BL	3.08	-

eq/L = equivalent per liter, i.e. normality

Reported by:
ANRESCO, INC.

E. Jerry Oliveras
Associate Lab Director

EJO/ms: G-1092384

CERTIFICATE OF ANALYSIS

SAMPLE DESIGNATED BY CLIENT AS:	Oil
CLIENT:	Anresco Incorporated
DATE SUBMITTED:	November 6, 1992
CI LAB ID NUMBER:	921327
SAMPLE MARKED:	Oil, Waste Oil, 10/24/92, Sampling Site: NFL-SJOB
CLIENT'S PURCHASE ORDER NUMBER:	4375J

REPORT DATE November 12, 1992 **REPORT NO.** 921327

ANALYSIS OF THE OIL SAMPLE

TEST:	RESULT:
BTU/Lb. Method: ASTM D-240	9,698 BTU/Lb.

Anresco
File # 1092384

Reviewed by: David Wilson - Lab Technician

Reviewed by: David T. Back - Lab Manager

Columbia Inspection, Inc.
7133 N. Lombard St., P.O. Box 83569

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID F92-273-01

LAB NO. A193-442

SUBMITTED BY [illegible]

DATE/TIME 1-29-93

DATA FILE NUMBER

PRETREATMENT

AS IS	
FILTERED	
pH <2	
H_2O_2	

ICP METALS (MG/L)

Ag	
Al	
Au	
B	
Ca	
Cd	
Cr	
Cu	
Fe	
Mg	
Mn	
Ni	
P	
Pb	
Zn	
Ba	

AA METALS (MG/L)

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

OTHER (MG/L)

NH_3	
Cl_2	
O&G	
TOC	
As	

pH	
SG	

H_2O SOL. IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{6+}	
Cr^6/Cr Tot	

CN ANALYSIS
(Units)
MG/KG ___
MG/L X

CN SPOT	~~204.5~~ SK

DISTILLATION

TOTAL	204.5
NON-AMEN	115.3
AMENABLE	89.2

Comp of Cons:
1, 2, 3, 4, 6

INITIAL PHASE:

✓ Liquid

___ Solid

Generator SJOB

Profile # F92-273-01

Tracking # 93-035

Drum # ~~CN SPOT~~

1 positive
2 positive
3 positive
4 [illegible]
5 negative
6 positive
7 [illegible]

FIRR ASSAY
Wet Sample ___
Dry Sample ___
G DIGEST/250 ML

ACID	
H_2O	
QACID	

ACID #	
H_2O #	
QACID #	
ACID % IR	
H_2O % IR	
% MOIST.	

ANALYZED BY _____ DATE: _____

APPROVED BY _____ DATE: _____

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID F92.273.01#1 LAB NO. 0193-438

DATE/TIME 1.28.93.

SUBMITTED BY M.

DATA FILE NUMBER C29A

G. Snyder

PRETREATMENT

AS IS	X
FILTERED	
pH <2	
H_2O_2	

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

CN ANALYSIS (Units)
MG/KG ___
MG/L ___

CN SPOT	—

DISTILLATION

TOTAL	
NON-AMEN	
AMENABLE	

FIRE ASSAY
Wet Sample ___
Dry Sample ___
G DIGEST/250 ML

ACID	50 mls
H_2O	
QACID	

(3005)

ACID %	3
H_2O %	
QACID %	
ACID % IR	
H_2O % IR	
% MOIST.	

ICP METALS (MG/L)

Ag	0.0
Al	2.3
As	0.0
B	0.0
Ca	29.8
Cd	0.0
Cr	13.8
Cu	33.6
Fe	6.1
Hg	9.9
Mn	0.0
Ni	0.3
P	26.0
Pb	2.5
Sn	13.0
Ba	0.0

OTHER (MG/L)

NH_3	
Cl_2	
~~OSS~~	
TOC	290.4
~~AS~~	

pH	9.50 (-20)
SG	1.00

H_2O SOL. IONS (MG/L) ORG

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
CN^-	
CN^- 7 CN^- TOC	

INITIAL PHASE:
X Liquid
___ Solid

Generator 5503 PLATING

Profile # F92.273.01

Tracking # 93-035

Drum # 3

NEEDS PHENOL ANALYSIS

AA METALS (MG/L)

NaOH	Cr	49.1
Acid digest	Cr	15.5
Acid Digest	Cr	14.9; 98.0 % recovery; 15.2 corrected ∴ actual = 76.0 based on corrected value - digest dilution JK 2-2-93

ANALYZED BY JK DATE ___

APPROVED BY / DATE ___

SeTr	AV	0.42	SD	0.427	CV	101.31
MoTr	AV	-2.46	SD	0.020	CV	0.83
CrTr	AV	1.38	SD	0.071	CV	5.15
SbTr	AV	-0.12	SD	0.060	CV	49.04
WTr	AV	-8.33	SD	0.068	CV	0.82
ZnTr	AV	1.30	SD	0.001	CV	0.09
CdTr	AV	-0.17	SD	0.008	CV	4.56
PTr	AV	2.60	SD	0.047	CV	1.79
PbTr	AV	0.05	SD	0.051	CV	90.53
CoTr	AV	-0.06	SD	0.044	CV	70.60
NiTr	AV	0.03	SD	0.024	CV	72.55
BaTr	AV	-0.42	SD	0.001	CV	0.13
AuTr	AV	-1.40	SD	0.000	CV	0.03
BTr	AV	-4.75	SD	0.000	CV	0.00
MnTr	AV	-0.09	SD	0.000	CV	0.03
FeTr	AV	0.61	SD	0.043	CV	7.06
MgTr	AV	0.99	SD	0.084	CV	8.48
SnTr	AV	0.18	SD	0.076	CV	41.24
VTr	AV	-0.21	SD	0.004	CV	1.86
BiTr	AV	0.26	SD	0.078	CV	29.68
AlTr	AV	0.23	SD	0.021	CV	9.37
CaTr	AV	2.98	SD	0.061	CV	2.03
CuTr	AV	3.36	SD	0.006	CV	0.17
AgTr	AV	-0.06	SD	0.001	CV	2.33
TiTr	AV	1.29	SD	0.057	CV	4.42
ScTr	AV	360650.0	SD	3101.4	CV	0.9

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID F92.273.01#1 LAB NO. 0193-432

SUBMITTED BY M. DATE/TIME 1.28.93.

DATA FILE NUMBER 089 A

G. Snyder

PRETREATMENT

AS IS	X
FILTERED	
pH <2	
H_2O =	

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

CN ANALYSIS (Units)
MG/KG ___
MG/L ___

CN SPOT	—

DISTILLATION

TOTAL	
NON-AMEN	
AMENABLE	

FIRE ASSAY
Wet Sample ___
Dry Sample ___
G DIGEST/250 ML

ACID	50 mls
H_2O	
QACID	

(3005)

ACID %	2
H_2O %	
QACID %	
ACID % IR	
H_2O % IR	
% MOIST.	

ICP METALS (MG/L)

Ag	0.0
Al	2.0
As	0.0
B	0.0
Ca	36.1
Cd	0.0
Cr	13.9
Cu	34.5
Fe	6.8
Mg	10.4
Mn	0.0
Ni	0.3
P	32.5
Pb	1.5
Zn	14.0
Ba	0.0

OTHER (MG/L)

NH_3	
Cl_2	
~~OSG~~	
TOC	316.3
~~TS~~	

pH	9.60 (+100)
SG	1.049 ORG

H_2O SOL. IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{--}	
PO_4^{---}	
CO_3^{--}	
C=/C= TOC	

INITIAL PHASE:
X Liquid
___ Solid

Generator: SSOB PLATING
Profile #: F92.273.01
Tracking #: 93-035
Drum #: 2

NEEDS PHENOL ANALYSIS

AA METALS (MG/L)

As.S.	Cr	52.3
Acid D-gest	Cr	13.2
Acid cl-gest	Cr	13.0

100.6% recovery; corrected = 12.9

2-2-93 JK
∴ actual concentration with spike recovery. = 64.5

ANALYZED BY: SK/JK DATE: 1.29

APPROVED BY: ___ DATE: ___

SeTr	AV	0.18	SD	0.027	CV	15.30
MoTr	AV	-2.41	SD	0.090	CV	3.75
CrTr	AV	1.39	SD	0.006	CV	0.42
SbTr	AV	-0.21	SD	0.076	CV	37.08
WTr	AV	-8.02	SD	0.065	CV	0.78
ZnTr	AV	1.49	SD	0.051	CV	3.45
CdTr	AV	-0.18	SD	0.004	CV	2.08
PTr	AV	3.25	SD	0.235	CV	7.24
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CoTr	AV	-0.06	SD	0.022	CV	37.79
NiTr	AV	0.03	SD	0.002	CV	5.76
BaTr	AV	-0.40	SD	0.002	CV	0.53
AuTr	AV	-1.35	SD	0.042	CV	3.11
BTr	AV	-4.64	SD	0.005	CV	0.11
MnTr	AV	-0.08	SD	0.007	CV	9.18
FeTr	AV	0.62	SD	0.036	CV	5.39
MgTr	AV	1.04	SD	0.027	CV	2.59
SnTr	AV	0.30	SD	0.047	CV	15.74
VTr	AV	-0.19	SD	0.001	CV	0.64
BiTr	AV	0.49	SD	0.085	CV	17.47
AlTr	AV	0.20	SD	0.016	CV	8.20
CaTr	AV	3.61	SD	0.024	CV	0.66
CuTr	AV	3.45	SD	0.080	CV	2.31
AgTr	AV	-0.07	SD	0.002	CV	3.43
TiTr	AV	1.41	SD	0.004	CV	0.30
ScTr	AV	341609.0	SD	8342.4	CV	2.4

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID F92.273.01#1 LAB NO. 0193.445

DATE/TIME 1.28.93.

SUBMITTED BY M.

DATA FILE NUMBER 0894

G Snyder

PRETREATMENT	
AS IS	Y
FILTERED	
pH <2	
H_2O_2 =	

AA H_2O CATIONS (MG/L)	
Na^+	
K^+	

CN ANALYSIS (Units)	
MG/KG	
MG/L	
CN SPOT	—

DISTILLATION	
TOTAL	
NON-AMEN	
AMENABLE	

FIRE ASSAY

Wet Sample ___
Dry Sample ___
G DIGEST/250 ML

ACID	50 mls
H_2O	
QACID	

(30 G)

ACID %	4
H_2O %	
QACID %	
ACID % IR	
H_2O % IR	
% MOIST.	

TICP METALS (MG/L)	
Ag	0.0
Al	1.7
As	0.0
B	0.0
Ca	1.5
Cd	0.0
Cr	17.6
Cu	37.6
Fe	0.0
Hg	0.0
Mn	0.0
Ni	0.8
P	35.4
Pb	1.3
Sn	12.0
Ba	0.0

OTHER (MG/L)	
NH_3	
Cl_2	
~~O&G~~	
TOC	1870.0
~~TS~~	

pH	9.46 (-300)
SG	1.014

H_2O SOL. IONS (MG/L)	
Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
SO_3^{2-}	
CN^-	
CN^-/CN^- TOC	

INITIAL PHASE:

X Liquid

___ Solid

Generator 5503 PLATING

Profile # F92.273.01

Tracking # 93-035

Drum # 4

NEEDS PHENOL ANALYSIS

AA METALS (MG/L)		
Raw	Cr	29.1
Acid Digest	Cr	16.6
		~~17.7~~ 92.5
Acid Digest	Cr	~~14.9~~ JK ; ~~78.0~~ JK % recovery; ~~15.2~~ 18.5 JK corrected ∴ actual = ~~76~~ 92.5 based on corrected value + digest dilution JK 2-2-93

ANALYZED BY: JK DATE: ___

APPROVED BY: / DATE: ___

0193-445 1/10 1426 1/29/93

SeTr	AV	0.26	SD	0.029	CV	11.19
MoTr	AV	-2.53	SD	0.019	CV	0.77
CrTr	AV	1.83	SD	0.343	CV	18.77
SbTr	AV	-0.19	SD	0.066	CV	34.15
WTr	AV	-8.35	SD	0.187	CV	2.24
ZnTr	AV	1.19	SD	0.214	CV	18.02
CdTr	AV	-0.18	SD	0.012	CV	6.97
PTr	AV	3.10	SD	0.991	CV	32.01
PbTr	AV	0.05	SD	0.019	CV	36.32
CoTr	AV	-0.06	SD	0.020	CV	35.11
NiTr	AV	0.08	SD	0.045	CV	54.87
BaTr	AV	-0.46	SD	0.008	CV	1.72
AuTr	AV	-1.42	SD	0.031	CV	2.21
BTr	AV	-4.83	SD	0.035	CV	0.73
MnTr	AV	-0.09	SD	0.000	CV	0.00
FeTr	AV	-0.10	SD	0.031	CV	30.71
MgTr	AV	-0.19	SD	0.034	CV	17.87
SnTr	AV	0.14	SD	0.060	CV	41.97
VTr	AV	-0.19	SD	0.010	CV	5.45
BiTr	AV	0.25	SD	0.124	CV	49.31
AlTr	AV	0.15	SD	0.047	CV	31.53
CaTr	AV	0.09	SD	0.132	CV	152.69
CuTr	AV	3.52	SD	0.516	CV	14.66
AgTr	AV	-0.07	SD	0.007	CV	10.12
TiTr	AV	1.45	SD	0.506	CV	34.79
ScTr	AV	344288.0	SD	52331.4	CV	15.2

0193-445 1/10 1435 1/29/93

SeTr	AV	0.12	SD	0.150	CV	124.01
MoTr	AV	-2.54	SD	0.015	CV	0.59
CrTr	AV	1.76	SD	0.026	CV	1.47
SbTr	AV	-0.10	SD	0.018	CV	18.49
WTr	AV	-8.36	SD	0.143	CV	1.71
ZnTr	AV	1.20	SD	0.114	CV	9.46
CdTr	AV	-0.18	SD	0.009	CV	4.83
PTr	AV	3.54	SD	0.325	CV	9.19
PbTr	AV	0.13	SD	0.035	CV	27.38
CoTr	AV	-0.01	SD	0.019	CV	277.63
NiTr	AV	0.08	SD	0.002	CV	2.87
BaTr	AV	-0.46	SD	0.002	CV	0.46
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MnTr	AV	-0.09	SD	0.000	CV	0.00
FeTr	AV	-0.07	SD	0.036	CV	51.60
MgTr	AV	-0.18	SD	0.023	CV	12.46
SnTr	AV	0.30	SD	0.052	CV	17.50
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CaTr	AV	0.15	SD	0.108	CV	70.88
CuTr	AV	[illegible]	SD	[illegible]	CV	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID F92.273.01#1 LAB NO. 0193.446

SUBMITTED BY M. DATE/TIME 1.28.93.

DATA FILE NUMBER 0997

M. Hanks

PRETREATMENT

AS IS	X
FILTERED	
pH <2	
H_2O =	

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

CN ANALYSIS (Units)
MG/KG ___
MG/L ___

CN SPOT	—

DISTILLATION

TOTAL	
NON-AMEN	
AMENABLE	

FIRE ASSAY
Wet Sample ___
Dry Sample ___
G DIGEST/~~250~~ ML 500ml

ACID	50mls
H_2O	
QACID	

ACID %	6
H_2O %	
QACID %	
ACID % IR	
H_2O % IR	
% MOIST.	

ICP METALS (MG/L)

Ag	0.0
Al	1.4
Au	0.0
B	0.0
Ca	3.2
Cd	0.0
Cr	6.2
Cu	14.4
Fe	2.4
Hg	0.1
Mn	0.0
Ni	0.0
P	12.3
Pb	1.3
Zn	3.3
Ba	0.0

OTHER (MG/L)

NH_3	
Cl_2	
~~OSG~~	
TOC	572.0
~~TS~~	

pH	9.50 (+1)
SG	1.00 GRN

H_2O SOL. IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
CN^-	
CN'7CN TOC	

INITIAL PHASE:
X Liquid
___ Solid

Generator: SSOB PLATING
Profile #: F92.273.01
Tracking #: 93-035
Drum #: 6

NEEDS PHENOL ANALYSIS

AA METALS (MG/L)

Cr	75.6
Cr	8.1
Cr	7.6; 75% recovery; corrected = 10.1; ∴ actual = ~~50.4~~ 101.0 (JK) based on corrected value + digest dilution JK 2-2-93

As > Acid Digest

ANALYZED BY: SK/JC DATE: ___

APPROVED BY: / DATE: ___

SeTr	AV	0.36	SD	0.067	CV	18.49
MoTr	AV	-2.56	SD	0.018	CV	0.71
CrTr	AV	0.62	SD	0.042	CV	6.89
SbTr	AV	-0.13	SD	0.098	CV	73.16
WTr	AV	-8.51	SD	0.003	CV	0.04
ZnTr	AV	0.33	SD	0.014	CV	4.28
CdTr	AV	-0.18	SD	0.018	CV	9.59
PTr	AV	1.23	SD	0.118	CV	9.55
PbTr	AV	[illegible]	SD	0.006	CV	4.84
CoTr	AV	-0.05	SD	0.011	CV	22.41
NiTr	AV	-0.01	SD	0.029	CV	242.77
BaTr	AV	-0.27	SD	0.013	CV	4.89
AuTr	AV	-1.41	SD	0.012	CV	0.87
BTr	AV	-4.87	SD	0.004	CV	0.07
MnTr	AV	-0.09	SD	0.000	CV	0.00
FeTr	AV	0.24	SD	0.023	CV	9.44
MgTr	AV	0.01	SD	0.009	CV	65.12
SnTr	AV	-0.02	SD	0.139	CV	729.08
VTr	AV	-0.21	SD	0.007	CV	3.61
BiTr	AV	0.27	SD	0.026	CV	9.55
AlTr	AV	0.14	SD	0.067	CV	47.12
CaTr	AV	0.32	SD	0.072	CV	22.84
CuTr	AV	1.44	SD	0.069	CV	4.78
AgTr	AV	-0.07	SD	0.006	CV	8.05
TiTr	AV	1.44	SD	0.514	CV	35.58
ScTr	AV	344195.5	SD	10127.9	CV	2.9

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID F92.273.01#1 LAB NO. 0193-444

SUBMITTED BY M. DATE/TIME 1.28.93.

DATA FILE NUMBER 039A

PRETREATMENT

AS IS	X
FILTERED	
pH <2	
H_2O =	

TC METALS (MG/L)

Ag	0.0
Al	1.6
Au	0.0
B	0.0
Ca	0.0
Cd	0.0
Cr	0.0
Cu	0.0
Fe	0.0
Hg	0.0
Mn	0.0
Ni	0.6
P	3.0
Pb	1.6
Sn	0.0
Ba	0.0

AA METALS (MG/L)

As is	Cr	0.5
Acid digest	Cr	0.4
	Cr	0.4 ; 98.7 recovery; 0.4 corrected; ∴ actual = ~~1.85~~ 2.0 based on corrected value + digest dilution JK

AA H_2O CATIONS (MG/L)

Na^+	
K^+	

OTHER (MG/L)

NH_3	
Cl_2	
~~OGS~~	
TOC	9871.0
~~TS~~	

pH	11.20 (-320)
SG	1.171

H yellow

H_2O SOL. IONS (MG/L)

Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
CO_3^{2-}	
CO_3^{2-} TOC	

CN ANALYSIS (Units)
MG/KG ___
MG/L ___

CN SPOT	—

DISTILLATION

TOTAL	
NON-AMEN	
AMENABLE	

FIRE ASSAY
Wet Sample ___
Dry Sample ___
G DIGEST/250 ML

ACID	50 mls	3005
H_2O		
QACID		

ACID %	5
H_2O %	
QACID %	
ACID % IR	
H_2O % IR	
% MOIST.	

INITIAL PHASE:
X Liquid
___ Solid

Generator 550B PLATING
Profile # F92.273.01
Tracking # 93-035
Drum # 5

NEEDS PHENOL ANALYSIS

ANALYZED BY: SK/JK DATE: ___
APPROVED BY: ___ DATE: ___

JK-2-2-93

SeTr	AV	0.13	SD	0.016	CV	11.87
MoTr	AV	-2.53	SD	0.013	CV	0.53
CrTr	AV	-0.30	SD	0.025	CV	8.35
SbTr	AV	-0.12	SD	0.022	CV	17.75
WTr	AV	-8.50	SD	0.132	CV	1.55
ZnTr	AV	-0.23	SD	0.049	CV	20.98
CdTr	AV	-0.17	SD	0.001	CV	0.85
PTr	AV	0.30	SD	0.083	CV	27.52
PbTr	AV	0.16	SD	0.156	CV	99.91
CoTr	AV	-0.05	SD	0.013	CV	26.44
NiTr	AV	0.06	SD	0.120	CV	213.44
BaTr	AV	-0.45	SD	0.015	CV	3.21
AuTr	AV	-1.37	SD	0.024	CV	1.71
BTr	AV	-4.71	SD	0.037	CV	0.78
MnTr	AV	-0.09	SD	0.000	CV	0.00
FeTr	AV	-0.02	SD	0.004	CV	21.67
MgTr	AV	-0.31	SD	0.000	CV	0.05
SnTr	AV	-0.11	SD	0.070	CV	63.05
VTr	AV	-0.21	SD	0.007	CV	3.24
BiTr	AV	0.26	SD	0.078	CV	30.20
AlTr	AV	0.16	SD	0.006	CV	3.59
CaTr	AV	-0.47	SD	0.018	CV	3.79
CuTr	AV	-0.07	SD	0.003	CV	4.24
AgTr	AV	-0.06	SD	0.007	CV	10.32
TiTr	AV	1.74	SD	0.004	CV	0.25
ScTr	AV	290693.0	SD	11534.3	CV	4.0

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID F92.273.01#1 LAB NO. 0193-455

DATE/TIME 1.28.93.

SUBMITTED BY M.

DATA FILE NUMBER 029A

G. Snyder/M. Hanke

PRETREATMENT	
AS IS	
FILTERED	1
pH <2	
H_2O =	

AA H_2O CATIONS (MG/L)	
Na^+	
K^+	

CN ANALYSIS (Units)	
MG/KG	
MG/L	
CN SPOT	—

DISTILLATION	
TOTAL	
NON-AMEN	
AMENABLE	

FIRE ASSAY
Wet Sample ___
Dry Sample ___
G DIGEST/250 ML

ACID	50.0 ml	3005
H_2O		
QACID		

ACID %	7
H_2O %	
QACID %	
ACID % IR	
H_2O % IR	
% MOIST.	

TCLP METALS (MG/L)	
Ag	0.0
Al	1.8
Au	0.0
B	0.0
Ca	2.5
Cd	0.0
Cr	0.0
Cu	2.6
Fe	14.7
Hg	0.0
Mn	0.0
Ni	0.0
P	2.9
Pb	2.8
Zn	0.0
Ba	0.0

OTHER (MG/L)	
NH_3	
Cl_2	
~~OSC~~	
TOC	172
~~TX~~	

pH	5.20 (+200)
SG	1.00

lt yellow

H_2O SOL. IONS (MG/L)	
Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
SO_3^{2-}	
CO_3^{2-}	
CO_3^{2-} TOC	

INITIAL PHASE:
X Liquid
___ Solid

Generator 550B PLATING
Profile # F92.273.01
Tracking # 93-035
Drum # 7

NEEDS PHENOL ANALYSIS

AA METALS (MG/L)		
As.s	Cr	3.9
Acid digest	Cr	0.3
Acid digest	Cr	0.3

99.1% recovery; corrected = 0.3; ∴ actual = 1.50 based on corrected value + digest dilution JK.
2-2-93.

ANALYZED BY: SY, BK DATE:

APPROVED BY: DATE:

SeTr	AV	0.32	SD	0.020	CV	6.17
MoTr	AV	-2.53	SD	0.001	CV	0.05
CrTr	AV	-0.20	SD	0.104	CV	51.94
SbTr	AV	-0.25	SD	0.061	CV	24.10
WTr	AV	-8.37	SD	0.119	CV	1.43
ZnTr	AV	-0.20	SD	0.027	CV	13.37
CdTr	AV	-0.17	SD	0.000	CV	0.25
PTr	AV	0.29	SD	0.043	CV	15.02
PbTr	AV	0.22	SD	0.181	CV	82.87
CoTr	AV	-0.06	SD	0.004	CV	6.28
NiTr	AV	-0.01	SD	0.028	CV	213.80
BaTr	AV	-0.45	SD	0.012	CV	2.55
AuTr	AV	-1.41	SD	0.055	CV	3.92
BTr	AV	-4.93	SD	0.017	CV	0.34
MnTr	AV	-0.08	SD	0.002	CV	2.90
FeTr	AV	1.47	SD	0.101	CV	6.89
MgTr	AV	-0.06	SD	0.012	CV	19.30
SnTr	AV	-0.12	SD	0.068	CV	56.18
VTr	AV	-0.20	SD	0.013	CV	6.45
BiTr	AV	0.24	SD	0.021	CV	8.85
AlTr	AV	0.18	SD	0.031	CV	17.30
CaTr	AV	0.75	SD	0.113	CV	15.15
CuTr	AV	0.26	SD	0.002	CV	0.59
AgTr	AV	-0.07	SD	0.000	CV	0.47
TiTr	AV	1.20	SD	0.126	CV	10.53
ScTr	AV	346041.0	SD	3968.3	CV	1.1

ANALYTICAL LAB REQUEST FOR ANALYSIS
TRUCK DELIVERY SAMPLE

SAMPLE ID F92.273.01#1 LAB NO. 0193.437

SUBMITTED BY M. DATE/TIME 1.28.93.

DATA FILE NUMBER 029A

G. Snyder

PRETREATMENT	
AS IS	X
FILTERED	
pH <2	
H_2O =	

AA H_2O CATIONS (MG/L)	
Na^+	
K^+	

CN ANALYSIS (Units) MG/KG ___ MG/L ___	
CN SPOT	—
DISTILLATION	
TOTAL	
NON-AMEN	
AMENABLE	

FIRE ASSAY
Wet Sample ___
Dry Sample ___
G DIGEST/250 ML

ACID	50mls (300g)
H_2O	
QACID	

ACID %	#1
H_2O %	
QACID %	
ACID % IR	
H_2O % IR	
% MOIST.	

ICP METALS (MG/L)	
Ag	0.0
Al	3.9
Au	0.0
B	0.0
Ca	97.1
Cd	0.0
Cr	91.1
Cu	30.1
Fe	19.9
Hg	32.2
Mn	0.0
Ni	30.6
P	30.5
Pb	8.0
Zn	74.5
Ba	0.0

OTHER (MG/L)	
NH_3	
Cl_2	
~~OSS~~	
TOC	528.5
~~AS~~	

pH	9.19 (+100)
SG	1.008

H_2O SOL. IONS (MG/L)	
Cl^-	
F^-	
NO_3^-	
NO_2^-	
SO_4^{2-}	
PO_4^{3-}	
Cr^{+6}	
Cr^{+7} Tot	

INITIAL PHASE:
X Liquid
___ Solid

Generator 550B PLATING
Profile # F92.273.01
Tracking # 93-035
Drum # 1

SAMPLE 1

NEEDS PHENOL ANALYSIS

AA METALS (MG/L)		
Sample as is.	Cr	710
Acid Dig	Cr	75.0
Acid Digest		710. 97.0% recovered. corrected 73.2 2/2/93 JK. ∴ 386 as is corrected for spike recovery.

ANALYZED BY: SK/JK DATE: ___

APPROVED BY: ___ DATE: ___

SeTr	AV	0.29	SD	0.049	CV	16.75
MoTr	AV	-2.49	SD	0.020	CV	0.82
CrTr	AV	9.11	SD	1.505	CV	16.52
SbTr	AV	-0.10	SD	0.093	CV	88.14
WTr	AV	-8.11	SD	0.032	CV	0.40
ZnTr	AV	7.45	SD	0.656	CV	8.81
CdTr	AV	-0.14	SD	0.007	CV	5.19
PTr	AV	3.05	SD	0.269	CV	8.82
PbTr	AV	0.80	SD	0.068	CV	8.52
CoTr	AV	-0.04	SD	0.030	CV	74.06
NiTr	AV	2.06	SD	0.224	CV	10.91
BaTr	AV	-0.18	SD	0.027	CV	15.09
AuTr	AV	-1.44	SD	0.018	CV	1.25
BTr	AV	-4.26	SD	0.044	CV	1.04
MnTr	AV	-0.03	SD	0.002	CV	4.90
FeTr	AV	1.99	SD	0.096	CV	4.82
MgTr	AV	3.22	SD	0.086	CV	2.67
SnTr	AV	2.20	SD	0.294	CV	13.31
VTr	AV	-0.21	SD	0.009	CV	4.17
BiTr	AV	0.44	SD	0.066	CV	15.17
AlTr	AV	0.39	SD	0.031	CV	8.00
CaTr	AV	9.71	SD	0.913	CV	9.41
CuTr	AV	3.01	SD	0.009	CV	0.30
AgTr	AV	-0.06	SD	0.005	CV	8.93
TiTr	AV	0.85	SD	0.137	CV	16.11
ScTr	AV	370154.0	SD	27355.1	CV	7.4

0.205

0.206

0.206

MEAN= 0.206 STD.DEV.= 0.001 COEF.VAR.= %

****

5.00 STANDARD 1

****

CR

9.47

9.33

9.51

MEAN= 9.44 STD.DEV.= 0.09 COEF.VAR.= %

****

10.00 STANDARD 2

****

CR

-0.01

-0.01

-0.01

MEAN= -0.01 STD.DEV.= 0.00 COEF.VAR.= %

****

CR 0437 1/10 ~~% recove~~ % recovery = 87.3 rejected

7.15

7.17

7.20

MEAN= 7.17 STD.DEV.= 0.03 COEF.VAR.= %

****

CR 0437 2 ppm spike 4.9/5.0 ~~% recovery = 100 (~~ JK ~~Corrected = 12.9 ppm~~

8.59

8.66

8.65

MEAN= 8.63 STD.DEV.= 0.04 COEF.VAR.= %

****

CR 0432 1/10 13.0 % recovery = 100.6 corrected = 12.9

1.31

1.29

1.29

MEAN= 1.30 STD.DEV.= 0.01 COEF.VAR.= %

****

CR 0432 JK ~~1 ppm~~ 1 ppm spike 4.9/5.0

2.28

2.28

2.27

MEAN= 2.28 STD.DEV.= 0.00 COEF.VAR.= %

****

CR 0438 1/10 14.9 % recovery = 98.0 corrected = 15.2

1.50

1.49

1.48

MEAN= 1.49 STD.DEV.= 0.01 COEF.VAR.= %

****

CR 0438 1ppm spike JK ~~4.9~~ 4.9/5.0

2.40

2.43

2.44

MEAN= 2.42 STD.DEV.= 0.02 COEF.VAR.= %

****

CR 0445 1/10 17.7 % recovery = 95.5 corrected = 18.5

1.79

1.78 1/10 17.7 % recovery = 70.0 corrected = 18.0

1.78

1.74

MEAN= 1.77 STD.DEV.= 0.03 COEF.VAR.= %

****

CR 0445

2.69 1ppm spike 4.9/5.0

2.68

2.70

MEAN= 2.69 STD.DEV.= 0.01 COEF.VAR.= %

****

CR 0444

0.35 Not 0.35 % recovery = 98.7 corrected = 0.35

0.35

0.34

MEAN= 0.35 STD.DEV.= 0.00 COEF.VAR.= %

****

CR 0444

1.33 1ppm spike 4.9/5.0

1.33

1.32

MEAN= 1.33 STD.DEV.= 0.01 COEF.VAR.= %

****

CR 0446

7.42 Not % recovery = 69.9 rejected

7.43 7.5

7.56

MEAN= 7.47 STD.DEV.= 0.09 COEF.VAR.= %

****

CR 0446

8.56 2ppm spike 4.9/5.0

8.51

8.63

MEAN= 8.57 STD.DEV.= 0.07 COEF.VAR.= %

****

CR 0458

0.28 Not

0.29

0.28

MEAN= 0.28 STD.DEV.= 0.00 COEF.VAR.= %

****

CR 0458

1.28 1ppm spike 4.9/5.0

1.28

1.26

MEAN= 1.27 STD.DEV.= 0.01 COEF.VAR.= %

****

CR

1.91 2.0 ppm spike standard alone

1.91

1.91

MEAN= 1.91 STD.DEV.= 0.00 COEF.VAR.= %

****

CR 0437

4.23 3/5 · 1/10 71.0 % recovery = 97.0 corrected = 73.2

4.27

4.28

MEAN= 4.26 STD.DEV.= 0.02 COEF.VAR.= %

CR 0437 10pm spike 3/5 - 1/10

5.24

5.22

5.23

MEAN= 5.23 STD.DEV.= 0.01 COEF.VAR.= %

****

CR 0446 3/5 7.55 % recovery = 75.0 corrected = 10.07

4.45

4.54

4.59

MEAN= 4.53 STD.DEV.= 0.08 COEF.VAR.= %

****

CR 0446 3/5 1ppm spike

5.25

5.31

5.28

MEAN= 5.28 STD.DEV.= 0.04 COEF.VAR.= %

****

CR Cr standard 1ppm spike.

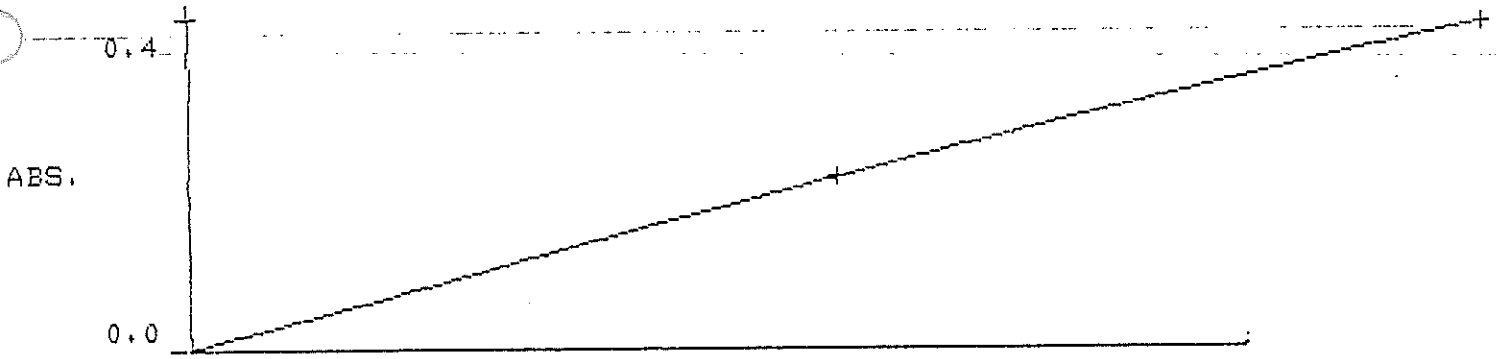
1.04

1.03

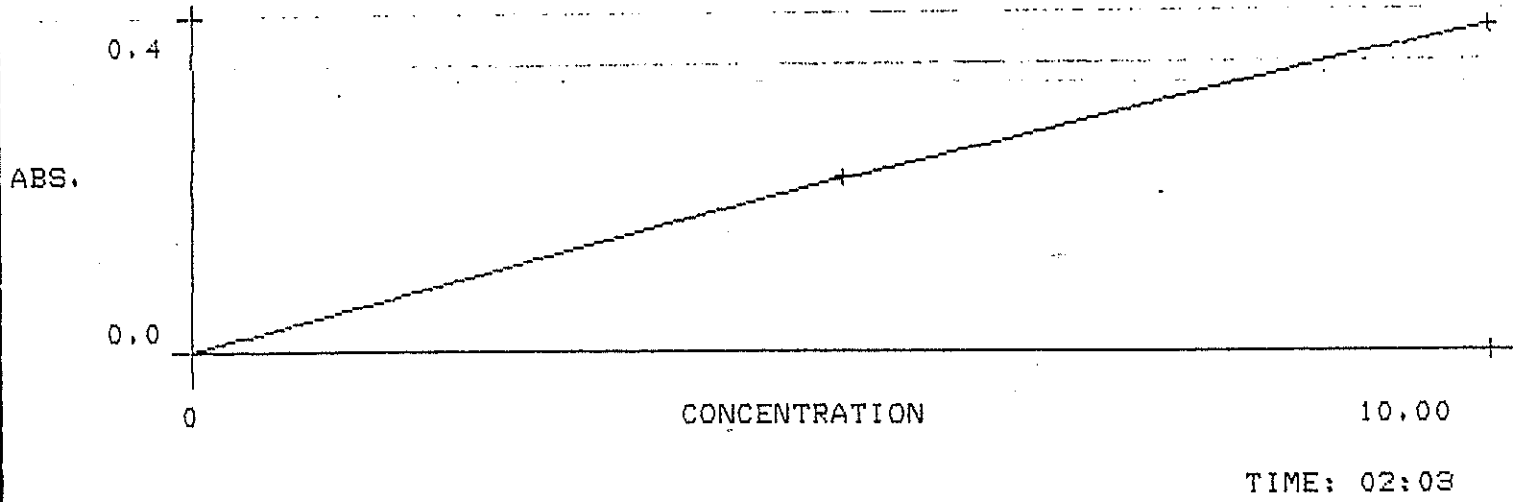
1.04

MEAN= 1.03 STD.DEV.= 0.00 COEF.VAR.= %

****



Cr Standardization 2-2-92
JK.



TIME: 02:03

WASTE ACCEPTANCE

ETICAM
1 st 1st St., Suite 904
Reno, NV 89505
Fax #:(702) 323-0505
Phone:(702) 323-0544

TO CET Environmental ATTENTION Mike Taylor
ADDRESS 9706 4th N.E., Suite 101
Seattle, WA 98115

GENERATOR US EPA Region IX/SJOB Plating DATE 1/19/93

WASTE DESCRIPTION Cyanide Solids

PROFILE # M93-001 ACCEPTANCE ENDS 12/28/93 LOG # N2014

PRICING Waste prices are as proposed on Task Order #4

ADDITIONAL COST
A Minimum order charge of $250.00 will be assessed on scheduled waste.
In accordance with CFR 40, subsection 264.12, Section B and our RCRA Permit, Section K.2, Notice to Generator: ETICAM of Pernley, Nv.; a completely insured and licensed (Part B Permit) T.S.D. Facility, will accept the above waste.

SIGNATURE SALES & MARKETING Howard Jackson DATE 1/19/93
Howard Jackson

TERMS AND CONDITIONS

Please review the following and return a signed copy to ETICAM-Pernley prior to scheduling.

1. DELIVERY MUST BE PRE-SCHEDULED WITH THE SCHEDULING DEPT. AT ETICAM WHO WILL ISSUE AUTHORIZATION NUMBERS. NO DELIVERY WILL BE ACCEPTED WITHOUT THIS NUMBER. PROFILE NUMBERS AND ALL APPLICABLE WASTE CODES MUST BE ON EACH MANIFEST.
2. Manifest for CERCLA generated waste must identify all such waste in ITEM J of the manifest.
3. RCRA Land Disposal Restriction Notification and Certification of Waste Status by TCLP forms must accompany each manifest.
4. A representative of the waste generator must be available, for communication, during the time of receipt of waste either by telephone or fax. Please list contact number in block #1 of the manifest.
5. FOR BULK LOADS A WEIGH TICKET FROM A CERTIFIED SCALE INDICATING THE UNLADEN, LADEN AND NET WEIGHTS OF THE LOAD MUST ACCOMPANY EACH MANIFEST.
6. Total organic carbon concentration must be less than 10%. Total appendix VIII organics must not exceed 500 ppm.
7. Miscellaneous debris waste or float oil and emulsions may not be acceptable. THERE WILL BE AN ADDITIONAL CHARGE OF $3.00 PER POUND FOR THIS MATERIAL TO BE REMOVED.
8. Waste not conforming to the Generator's Waste Profile may be subject to additional charges.
9. Shipments not meeting profiles, or minimum metal content, or specified limits may not be recyclable subject to ETICAM's discretion. Metal content is analyzed on an "as received" basis.
10. All drivers delivering waste to ETICAM must be in possession of proper personal protective equipment to include: tyvec, boots/boot covers, gloves, hard hat, safety glasses and respirators, in accordance with OSHA, NDEP, DOT and EPA regulations.
11. Shipping containers must meet DOT CFR 49 requirements. There is a $125.00 charge for each leaking container, plus any additional spill clean up costs.
12. _____

CUSTOMER SIGNATURE _____ DATE _____

07/20/92

TO CET Environment ATTENTION Mike Taylor

ADDRESS 9706 4th NE, Suite 101
Seattle, WA 98115

Fernley, NV 89408
Fax #:(702) 575-2803
Phone:(800) 648-9931

DATE 12/28/92

GENERATOR US EPA Region 9/SJOB Plating

WASTE DESCRIPTION A26

PROFILE # M92-174-01 ACCEPTANCE ENDS 12/28/93 LOG # N1993

PRICING Waste prices are as proposed on Task Order #4

ADDITIONAL COST

A Minimum order charge of $250.00 will be assessed on scheduled waste.

In accordance with CFR 40, subsection 264.12. Section B and our RCRA Permit, Section K.2, Notice to Generator: ETICAM of Fernley, Nv.; a completely insured and licensed (Part B Permit) T.S.D. Facility, will accept the above waste.

SIGNATURE SALES & MARKETING Chris Carling DATE 12/28/92

Chris Carling for Howard Jackson

TERMS AND CONDITIONS

Please review the following and return a signed copy to ETICAM-Fernley prior to scheduling.

1. DELIVERY MUST BE PRE-SCHEDULED WITH THE SCHEDULING DEPT. AT ETICAM WHO WILL ISSUE AUTHORIZATION NUMBERS. NO DELIVERY WILL BE ACCEPTED WITHOUT THIS NUMBER. PROFILE NUMBERS AND ALL APPLICABLE WASTE CODES MUST BE ON EACH MANIFEST.
2. Manifest for CERCLA generated waste must identify all such waste in ITEM J of the manifest.
3. RCRA Land Disposal Restriction Notification and Certification of Waste Status by TCLP forms must accompany each manifest.
4. A representative of the waste generator must be available, for communication, during the time of receipt of waste either by telephone or fax. Please list contact number in block #1 of the manifest.
5. FOR BULK LOADS A WEIGH TICKET FROM A CERTIFIED SCALE INDICATING THE UNLADEN, LADEN AND NET WEIGHTS OF THE LOAD MUST ACCOMPANY EACH MANIFEST.
6. Total organic carbon concentration must be less than 10%. Total appendix VIII organics must not exceed 500 ppm.
7. Miscellaneous debris waste or float oil and emulsions may not be acceptable. THERE WILL BE AN ADDITIONAL CHARGE OF $3.00 PER POUND FOR THIS MATERIAL TO BE REMOVED.
8. Waste not conforming to the Generator's Waste Profile may be subject to additional charges.
9. Shipments not meeting profiles, or minimum metal content, or specified limits may not be recyclable subject to ETICAM's discretion. Metal content is analyzed on an "as received" basis.
10. All drivers delivering waste to ETICAM must be in possession of proper personal protective equipment to include: tyvec, boots/boot covers, gloves, hard hat, safety glasses and respirators, in accordance with OSHA, NDEP, DOT and EPA regulations.
11. Shipping containers must meet DOT CFR 49 requirements. There is a $125.00 charge for each leaking container, plus any additional spill clean up costs.
12.

CUSTOMER SIGNATURE DATE

TO CET Environmenta ATTENTION Mike Taylor

ADDRESS 9706 4th NE, Suite 101
Seattle, WA 98115

Fernley, NV 89408
Fax #:(702) 575-2803
Phone:(800) 648-9931

DATE 12/28/92

GENERATOR US EPA Region 9/SJOB Plating

WASTE DESCRIPTION NCS-High

PROFILE # M92-175-01 ACCEPTANCE ENDS 12/28/93 LOG # N1989

PRICING Waste prices are as proposed on Task Order #4

ADDITIONAL COST

A Minimum order charge of $250.00 will be assessed on scheduled waste.

In accordance with CFR 40, subsection 264.12. Section B and our RCRA Permit, Section K.2, Notice to Generator: ETICAM of Fernley, Nv., a completely insured and licensed (Part B Permit) T.S.D. Facility, will accept the above waste.

SIGNATURE SALES & MARKETING Chris Carling DATE 12/28/92

Chris Carling for Howard Jackson

TERMS AND CONDITIONS

Please review the following and return a signed copy to ETICAM-Fernley prior to scheduling.

1. DELIVERY MUST BE PRE-SCHEDULED WITH THE SCHEDULING DEPT. AT ETICAM WHO WILL ISSUE AUTHORIZATION NUMBERS. NO DELIVERY WILL BE ACCEPTED WITHOUT THIS NUMBER. PROFILE NUMBERS AND ALL APPLICABLE WASTE CODES MUST BE ON EACH MANIFEST.
2. Manifest for CERCLA generated waste must identify all such waste in ITEM J of the manifest.
3. RCRA Land Disposal Restriction Notification and Certification of Waste Status by TCLP forms must accompany each manifest.
4. A representative of the waste generator must be available, for communication, during the time of receipt of waste either by telephone or fax. Please list contact number in block #1 of the manifest.
5. FOR BULK LOADS A WEIGH TICKET FROM A CERTIFIED SCALE INDICATING THE UNLADEN, LADEN AND NET WEIGHTS OF THE LOAD MUST ACCOMPANY EACH MANIFEST.
6. Total organic carbon concentration must be less than 10%. Total appendix VIII organics must not exceed 500 ppm.
7. Miscellaneous debris waste or float oil and emulsions may not be acceptable. THERE WILL BE AN ADDITIONAL CHARGE OF $3.00 PER POUND FOR THIS MATERIAL TO BE REMOVED.
8. Waste not conforming to the Generator's Waste Profile may be subject to additional charges.
9. Shipments not meeting profiles, or minimum metal content, or specified limits may not be recyclable subject to ETICAM's discretion. Metal content is analyzed on an "as received" basis.
10. All drivers delivering waste to ETICAM must be in possession of proper personal protective equipment to include: tyvec, boots/boot covers, gloves, hard hat, safety glasses and respirators, in accordance with OSHA, NDEP, DOT and EPA regulations.
11. Shipping containers must meet DOT CFR 49 requirements. There is a $125.00 charge for each leaking container, plus any additional spill clean up costs.
12.

CUSTOMER SIGNATURE DATE

TO CET Environmental ATTENTION Mike Taylor

ADDRESS 9706 4th NE, Suite 101
Seattle, WA 98115

Fernley, NV 89408
Fax #:(702) 575-2803
Phone:(800) 648-9931

DATE 12/28/92

GENERATOR US EPA Region 9/SJOB Plating

WASTE DESCRIPTION Base Liquids

PROFILE # F92-277-01 ACCEPTANCE ENDS 12/28/93 LOG # N1987

PRICING Waste prices are as proposed on Task Order #4

ADDITIONAL COST
A Minimum order charge of $250.00 will be assessed on scheduled waste.
In accordance with CFR 40, subsection 264.12. Section B and our RCRA Permit, Section K.2, Notice to Generator: ETICAM of Fernley, Nv.; a completely insured and licensed (Part B Permit) T.S.D. Facility, will accept the above waste.

SIGNATURE SALES & MARKETING Chris Carling DATE 12/28/92
Chris Carling for Howard Jackson

TERMS AND CONDITIONS

Please review the following and return a signed copy to ETICAM-Fernley prior to scheduling.

1. DELIVERY MUST BE PRE-SCHEDULED WITH THE SCHEDULING DEPT. AT ETICAM WHO WILL ISSUE AUTHORIZATION NUMBERS. NO DELIVERY WILL BE ACCEPTED WITHOUT THIS NUMBER. PROFILE NUMBERS AND ALL APPLICABLE WASTE CODES MUST BE ON EACH MANIFEST.
2. Manifest for CERCLA generated waste must identify all such waste in ITEM J of the manifest.
3. RCRA Land Disposal Restriction Notification and Certification of Waste Status by TCLP forms must accompany each manifest.
4. A representative of the waste generator must be available, for communication, during the time of receipt of waste either by telephone or fax. Please list contact number in block #1 of the manifest.
5. FOR BULK LOADS A WEIGH TICKET FROM A CERTIFIED SCALE INDICATING THE UNLADEN, LADEN AND NET WEIGHTS OF THE LOAD MUST ACCOMPANY EACH MANIFEST.
6. Total organic carbon concentration must be less than 10%. Total appendix VIII organics must not exceed 500 ppm.
7. Miscellaneous debris waste or float oil and emulsions may not be acceptable. THERE WILL BE AN ADDITIONAL CHARGE OF $3.00 PER POUND FOR THIS MATERIAL TO BE REMOVED.
8. Waste not conforming to the Generator's Waste Profile may be subject to additional charges.
9. Shipments not meeting profiles, or minimum metal content, or specified limits may not be recyclable subject to ETICAM's discretion. Metal content is analyzed on an "as received" basis.
10. All drivers delivering waste to ETICAM must be in possession of proper personal protective equipment to include: tyvec, boots/boot covers, gloves, hard hat, safety glasses and respirators, in accordance with OSHA, NDEP, DOT and EPA regulations.
11. Shipping containers must meet DOT CFR 49 requirements. There is a $125.00 charge for each leaking container, plus any additional spill clean up costs.
12. _____

CUSTOMER SIGNATURE _____ DATE _____

WASTE ACCEPTANCE

TO CET Environmenta ATTENTION Mike Taylor
ADDRESS 9706 4th NE, Suite 101
Seattle, WA 98115

2095 Newlands
Fernley, NV 89408
Fax #:(702) 575-2803
Phone:(800) 648-9931

DATE 12/28/92

GENERATOR US EPA Region 9/SJOB Plating

WASTE DESCRIPTION BOL

PROFILE # F92-276-01 ACCEPTANCE ENDS 12/28/93 LOG # N1995

PRICING Waste prices are as proposed on Task Order #4

ADDITIONAL COST
A Minimum order charge of $250.00 will be assessed on scheduled waste.
In accordance with CFR 40, subsection 264.12. Section B and our RCRA Permit, Section X.2, Notice to Generator: ETICAM of Fernley, Nv.; a completely insured and licensed (Part B Permit) T.S.D. Facility, will accept the above waste.

SIGNATURE SALES & MARKETING Chris Carling DATE 12/28/92
Chris Carling for Howard Jackson

TERMS AND CONDITIONS

Please review the following and return a signed copy to ETICAM-Fernley prior to scheduling.

1. DELIVERY MUST BE PRE-SCHEDULED WITH THE SCHEDULING DEPT. AT ETICAM WHO WILL ISSUE AUTHORIZATION NUMBERS. NO DELIVERY WILL BE ACCEPTED WITHOUT THIS NUMBER. PROFILE NUMBERS AND ALL APPLICABLE WASTE CODES MUST BE ON EACH MANIFEST.
2. Manifest for CERCLA generated waste must identify all such waste in ITEM J of the manifest.
3. RCRA Land Disposal Restriction Notification and Certification of Waste Status by TCLP forms must accompany each manifest.
4. A representative of the waste generator must be available, for communication, during the time of receipt of waste either by telephone or fax. Please list contact number in block #1 of the manifest.
5. FOR BULK LOADS A WEIGH TICKET FROM A CERTIFIED SCALE INDICATING THE UNLADEN, LADEN AND NET WEIGHTS OF THE LOAD MUST ACCOMPANY EACH MANIFEST.
6. Total organic carbon concentration must be less than 10%. Total appendix VIII organics must not exceed 500 ppm.
7. Miscellaneous debris waste or float oil and emulsions may not be acceptable. THERE WILL BE AN ADDITIONAL CHARGE OF $3.00 PER POUND FOR THIS MATERIAL TO BE REMOVED.
8. Waste not conforming to the Generator's Waste Profile may be subject to additional charges.
9. Shipments not meeting profiles, or minimum metal content, or specified limits may not be recyclable subject to ETICAM's discretion. Metal content is analyzed on an "as received" basis.
10. All drivers delivering waste to ETICAM must be in possession of proper personal protective equipment to include: tyvec, boots/boot covers, gloves, hard hat, safety glasses and respirators, in accordance with OSHA, NDEP, DOT and EPA regulations.
11. Shipping containers must meet DOT CFR 49 requirements. There is a $125.00 charge for each leaking container, plus any additional spill clean up costs.
12. _____

CUSTOMER SIGNATURE _____ DATE _____

12/28/92

WASTE ACCEPTANCE

TO CET Environmental ATTENTION Mike Taylor
ADDRESS 9706 4th NE, Suite 101
Seattle, WA 98115

2095 Newlands Drive
Fernley, NV 89408
Fax #:(702) 575-2803
Phone:(800) 648-9931

DATE 12/28/92

GENERATOR US EPA Region 9/SJOB Plating

WASTE DESCRIPTION A88

PROFILE # M92-171-01 ACCEPTANCE ENDS 12/28/93 LOG # N1992

PRICING Waste prices are as proposed on Task Order #4

ADDITIONAL COST
A Minimum order charge of $250.00 will be assessed on scheduled waste.
In accordance with CFR 40, subsection 264.12. Section 3 and our RCRA Permit, Section K.2, Notice to Generator: ETICAM of Fernley, Nv.; a completely insured and licensed (Part B Permit) T.S.D. Facility, will accept the above waste.

SIGNATURE SALES & MARKETING Chris Carling DATE 12/28/92
Chris Carling for Howard Jackson

TERMS AND CONDITIONS

Please review the following and return a signed copy to ETICAM-Fernley prior to scheduling.

1. DELIVERY MUST BE PRE-SCHEDULED WITH THE SCHEDULING DEPT. AT ETICAM WHO WILL ISSUE AUTHORIZATION NUMBERS. NO DELIVERY WILL BE ACCEPTED WITHOUT THIS NUMBER. PROFILE NUMBERS AND ALL APPLICABLE WASTE CODES MUST BE ON EACH MANIFEST.
2. Manifest for CERCLA generated waste must identify all such waste in ITEM J of the manifest.
3. RCRA Land Disposal Restriction Notification and Certification of Waste Status by TCLP forms must accompany each manifest.
4. A representative of the waste generator must be available, for communication, during the time of receipt of waste either by telephone or fax. Please list contact number in block #1 of the manifest.
5. FOR BULK LOADS A WEIGH TICKET FROM A CERTIFIED SCALE INDICATING THE UNLADEN, LADEN AND NET WEIGHTS OF THE LOAD MUST ACCOMPANY EACH MANIFEST.
6. Total organic carbon concentration must be less than 10%. Total appendix VIII organics must not exceed 500 ppm.
7. Miscellaneous debris waste or float oil and emulsions may not be acceptable. THERE WILL BE AN ADDITIONAL CHARGE OF $3.00 PER POUND FOR THIS MATERIAL TO BE REMOVED.
8. Waste not conforming to the Generator's Waste Profile may be subject to additional charges.
9. Shipments not meeting profiles, or minimum metal content, or specified limits may not be recyclable subject to ETICAM's discretion. Metal content is analyzed on an "as received" basis.
10. All drivers delivering waste to ETICAM must be in possession of proper personal protective equipment to include: tyvec, boots/boot covers, gloves, hard hat, safety glasses and respirators, in accordance with OSHA, NDEP, DOT and EPA regulations.
11. Shipping containers must meet DOT CFR 49 requirements. There is a $125.00 charge for each leaking container, plus any additional spill clean up costs.
12. _____

CUSTOMER SIGNATURE _____ DATE _____

07/20/92

TO CET Environmental ATTENTION Mike Taylor

ADDRESS 9706 4th NE, Suite 101
Seattle, WA 98115

Fernley, NV 89408
Fax #:(702) 575-2803
Phone:(800) 648-9931

DATE 12/28/92

GENERATOR US EPA Region 9/SJOB Plating

WASTE DESCRIPTION Acid Oxidizing Liquids

PROFILE # F92-274-01 ACCEPTANCE ENDS 12/28/93 LOG # N1991

PRICING Waste prices are as proposed on Task Order #4

ADDITIONAL COST

A Minimum order charge of $250.00 will be assessed on scheduled waste.

In accordance with CFR 40, subsection 264.12. Section B and our RCRA Permit, Section K.2, Notice to Generator: ETICAM of Fernley, Nv.; a completely insured and licensed (Part B Permit) T.S.D. Facility, will accept the above waste.

SIGNATURE SALES & MARKETING Chris Carling DATE 12/28/92

Chris Carling for Howard Jackson

TERMS AND CONDITIONS

Please review the following and return a signed copy to ETICAM-Fernley prior to scheduling.

1. DELIVERY MUST BE PRE-SCHEDULED WITH THE SCHEDULING DEPT. AT ETICAM WHO WILL ISSUE AUTHORIZATION NUMBERS. NO DELIVERY WILL BE ACCEPTED WITHOUT THIS NUMBER. PROFILE NUMBERS AND ALL APPLICABLE WASTE CODES MUST BE ON EACH MANIFEST.
2. Manifest for CERCLA generated waste must identify all such waste in ITEM J of the manifest.
3. RCRA Land Disposal Restriction Notification and Certification of Waste Status by TCLP forms must accompany each manifest.
4. A representative of the waste generator must be available, for communication, during the time of receipt of waste either by telephone or fax. Please list contact number in block #1 of the manifest.
5. FOR BULK LOADS A WEIGH TICKET FROM A CERTIFIED SCALE INDICATING THE UNLADEN, LADEN AND NET WEIGHTS OF THE LOAD MUST ACCOMPANY EACH MANIFEST.
6. Total organic carbon concentration must be less than 10%. Total appendix VIII organics must not exceed 500 ppm.
7. Miscellaneous debris waste or float oil and emulsions may not be acceptable. THERE WILL BE AN ADDITIONAL CHARGE OF $3.00 PER POUND FOR THIS MATERIAL TO BE REMOVED.
8. Waste not conforming to the Generator's Waste Profile may be subject to additional charges.
9. Shipments not meeting profiles, or minimum metal content, or specified limits may not be recyclable subject to ETICAM's discretion. Metal content is analyzed on an "as received" basis.
10. All drivers delivering waste to ETICAM must be in possession of proper personal protective equipment to include: tyvec, boots/boot covers, gloves, hard hat, safety glasses and respirators, in accordance with OSHA, NDEP, DOT and EPA regulations.
11. Shipping containers must meet DOT CFR 49 requirements. There is a $125.00 charge for each leaking container, plus any additional spill clean up costs.
12.

CUSTOMER SIGNATURE DATE

07/20/92

TO CET Environmental ATTENTION Mike Taylor

ADDRESS 9706 4th NE, Suite 101
Seattle, WA 98115

Fernley, NV 89408
Fax #:(702) 575-2803
Phone:(800) 648-9931

DATE 12/28/92

GENERATOR US EPA Region 9/SJOB Plating

WASTE DESCRIPTION Acid Oxidizing Solids

PROFILE # M92-173-01 ACCEPTANCE ENDS 12/28/93 LOG # N1990

PRICING Waste prices are as proposed on Task Order #4

ADDITIONAL COST

A Minimum order charge of $250.00 will be assessed on scheduled waste.

In accordance with CFR 40, subsection 264.12. Section B, and our RCRA Permit, Section K.2, Notice to Generator: ETICAM of Fernley, Nv.; a completely insured and licensed (Part B Permit) T.S.D. Facility, will accept the above waste.

SIGNATURE SALES & MARKETING Chris Carling DATE 12/28/92

Chris Carling for Howard Jackson

TERMS AND CONDITIONS

Please review the following and return a signed copy to ETICAM-Fernley prior to scheduling.

1. DELIVERY MUST BE PRE-SCHEDULED WITH THE SCHEDULING DEPT. AT ETICAM WHO WILL ISSUE AUTHORIZATION NUMBERS. NO DELIVERY WILL BE ACCEPTED WITHOUT THIS NUMBER. PROFILE NUMBERS AND ALL APPLICABLE WASTE CODES MUST BE ON EACH MANIFEST.

2. Manifest for CERCLA generated waste must identify all such waste in ITEM J of the manifest.

3. RCRA Land Disposal Restriction Notification and Certification of Waste Status by TCLP forms must accompany each manifest.

4. A representative of the waste generator must be available, for communication, during the time of receipt of waste either by telephone or fax. Please list contact number in block #1 of the manifest.

5. FOR BULK LOADS A WEIGH TICKET FROM A CERTIFIED SCALE INDICATING THE UNLADEN, LADEN AND NET WEIGHTS OF THE LOAD MUST ACCOMPANY EACH MANIFEST.

6. Total organic carbon concentration must be less than 10%. Total appendix VIII organics must not exceed 500 ppm.

7. Miscellaneous debris waste or float oil and emulsions may not be acceptable. THERE WILL BE AN ADDITIONAL CHARGE OF $3.00 PER POUND FOR THIS MATERIAL TO BE REMOVED.

8. Waste not conforming to the Generator's Waste Profile may be subject to additional charges.

9. Shipments not meeting profiles, or minimum metal content, or specified limits may not be recyclable subject to ETICAM's discretion. Metal content is analyzed on an "as received" basis.

10. All drivers delivering waste to ETICAM must be in possession of proper personal protective equipment to include: tyvec, boots/boot covers, gloves, hard hat, safety glasses and respirators, in accordance with OSHA, NDEP, DOT and EPA regulations.

11. Shipping containers must meet DOT CFR 49 requirements. There is a $125.00 charge for each leaking container, plus any additional spill clean up costs.

12.

CUSTOMER SIGNATURE DATE

07/30/92

TO CET Environmen. I ATTENTION Mike Taylor

ADDRESS 9706 4th NE, Suite 101
Seattle, WA 98115

2095 [illegible]
Fernley, NV 89408
Fax #:(702) 575-2803
Phone:(800) 648-9931

DATE 12/28/92

GENERATOR US EPA Region 9/SJOB Plating

WASTE DESCRIPTION Non Flammable Liquids

PROFILE # _____ ACCEPTANCE ENDS 12/28/93 LOG # _____

PRICING Waste prices are as proposed on Task Order #4

ADDITIONAL COST _____

A Minimum order charge of $250.00 will be assessed on scheduled waste.

In accordance with CFR 40, subsection 264.12. Section B and our RCRA Permit, Section X.2, Notice to Generator: ETICAM of Fernley, Nv.; a completely insured and licensed (Part B Permit) T.S.D. Facility, will accept the above waste.

SIGNATURE SALES & MARKETING Chris Carling DATE 12/28/92

Chris Carling for Howard Jackson

TERMS AND CONDITIONS

Please review the following and return a signed copy to ETICAM-Fernley prior to scheduling.

1. DELIVERY MUST BE PRE-SCHEDULED WITH THE SCHEDULING DEPT. AT ETICAM WHO WILL ISSUE AUTHORIZATION NUMBERS. NO DELIVERY WILL BE ACCEPTED WITHOUT THIS NUMBER. PROFILE NUMBERS AND ALL APPLICABLE WASTE CODES MUST BE ON EACH MANIFEST.
2. Manifest for CERCLA generated waste must identify all such waste in ITEM 9 of the manifest.
3. RCRA Land Disposal Restriction Notification and Certification of Waste Status by TCLP forms must accompany each manifest.
4. A representative of the waste generator must be available, for communication, during the time of receipt of waste either by telephone or fax. Please list contact number in block 11 of the manifest.
5. FOR BULK LOADS A WEIGH TICKET FROM A CERTIFIED SCALE INDICATING THE UNLADEN, LADEN AND NET WEIGHTS OF THE LOAD MUST ACCOMPANY EACH MANIFEST.
6. Total organic carbon concentration must be less than 10%. Total appendix VIII organics must not exceed 500 ppm.
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11. Shipping containers must meet DOT CFR 49 requirements. There is a $125.00 charge for each leaking container, plus any additional spill clean up costs.
12. _____

CUSTOMER SIGNATURE _____ DATE _____

WASTE ACCEPTANCE

TO CET Environmental ATTENTION Mike Taylor
ADDRESS 9706 4th NE, Suite 101
Seattle, WA 98115

2095 Newlands Drive
Fernley, NV 89408
Fax #:(702) 575-2803
Phone:(800) 648-9931

GENERATOR US EPA Region 9/SJOB Plating DATE 12/28/92

WASTE DESCRIPTION NCS-Low

PROFILE # M92-172-01 ACCEPTANCE ENDS 12/28/93 LOG # N1988

PRICING Waste prices are as proposed on Task Order #4

ADDITIONAL COST
A Minimum order charge of $250.00 will be assessed on scheduled waste.
In accordance with CFR 40, subsection 264.12. Section B and our RCRA Permit, Section K.2, Notice to Generator: ETICAM of Fernley, Nv.; a completely insured and licensed (Part B Permit) T.S.D. Facility, will accept the above waste.

SIGNATURE SALES & MARKETING Chris Carling DATE 12/28/92
Chris Carling for Howard Jackson

TERMS AND CONDITIONS

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CUSTOMER SIGNATURE _____ DATE _____