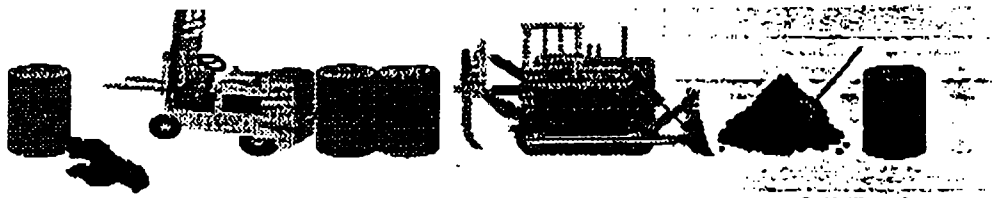
SMITH TECHNOLOGY CORPORATION



Fax Cover Sheet

US EPA RECORDS CENTER REGION 5
436226

To: STEVE

Company:

Phone:

Fax:

From: Todd L. Ritsema
Transportation & Disposal Coordinator
ERCS EPA Region V
Program Management Office

Company: SMITH TECHNOLOGY CORPORATION
Construction & Remediation Services
2080 S. Carboy Road
Mt. Prospect, Illinois 60056

Phone: 847-437-3408
ERCS Fax: 847-437-6064

Date: 2-12-97

Number of pages : 4

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR THE ENTITY TO WHOM IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT, OR THE EMPLOYEE OR AGENT RESPONSIBLE FOR DELIVERING THIS MESSAGE TO THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISSIMULATION, DISTRIBUTION OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE NOTIFY US IMMEDIATELY BY TELEPHONE AND RETURN THE ORIGINAL MESSAGE TO US VIA THE U.S. POSTAL SERVICE. WE APPRECIATE YOUR COOPERATION.

Comments:

Analytical Results (metals, react. cn) for
Caustic Solids from EQ.

Profile Summary Update.

TR

Lucy,
The analytical.
Notice we need the zinc code (003D added to section E. Also, no WUT? (to exclude the Fle.) Thanks, Liz 2/12/97

EQ - The Environmental Quality Company
49350 N. I-94 Service Drive
Belleville, Michigan 48111

February 12, 1997

Smith Environmental-Ill,IN,MO
500 Eastern Ave.
Bensenville, IL 60106
ATTN:
PERMANENT COD

Dear Smith Environmental-Ill,IN,MO:

Below are results of analysis of the sample received for examination on February 11, 1997:

Sample I.D. AA07290
Purchase order number: NC WA
Generator: SMITH TECHNOLOGY
Lab submittal date: 02/11/97

CLIENT CODE: 2309
Tracking number: 908687
Waste Name: CAUSTIC SOLID
Time: 10:31

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Multicomponent analysis: TCLP METALS--RCRA/MDNR LIST			
SELENIUM	MG/L	Less than	0.10
ARSENIC	MG/L	Less than	0.06
ANTIMONY	MG/L	Less than	0.10
ZINC	MG/L	610	0.10
LEAD	MG/L	Less than	0.04
CADMIUM	MG/L	Less than	0.01
BARIUM	MG/L	0.21	0.01
BERYLLIUM	MG/L	Less than	0.0005
CHROMIUM	MG/L	Less than	0.01
COPPER	MG/L	Less than	0.01
SILVER	MG/L	0.12	0.01
NICKEL	MG/L	Less than	0.08
THALLIUM	MG/L	Less than	0.08
MERCURY	MG/L	Less than	0.005

Please advise should you have questions concerning these data.

Respectfully submitted,

Validation by
Rebecca J. Hoeft
Chemist II

Validation by
Belinda M. Pero
Lab Manager

EQ - The Environmental Quality Company
49350 N. I-94 Service Drive
Belleville, Michigan 48111

February 11, 1997

Smith Environmental-Ill,IN,MO
500 Eastern Ave.
Bensenville, IL 60106
ATTN:
PERMANENT COD

Dear Smith Environmental-Ill,IN,MO:

Below are results of analysis of the sample received for examination on February 9, 1997:

Sample I.D. AA07277
Purchase order number: NC LIZ
Generator: SMITH ENVIROD
Lab submittal date: 02/09/97

CLIENT CODE: 2309
Tracking number: 908687
Waste Name: CAUSTIC SOLID
Time: 15:36

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
REACTIVE CYANIDE	MG/KG	0.82	0.50

Please advise should you have questions concerning these data.

Respectfully submitted,

Validation by
Rebecca J. Hoeft
Chemist II

Validation by
Belinda M. Pero
Lab Manager

dl worried about cleaners w/CN not plating
gt 2/11/97

THE ENVIRONMENTAL QUALITY COMPANY

VOLATILE ORGANIC COMPOUNDS

CERTIFICATION FORM

Michigan Disposal Waste Treatment Plant is requesting generator certification whether the waste material contains any of the Volatile Organic Compounds as listed below.

YES, THE WASTE **DOES** CONTAIN ONE OR MORE OF THE FOLLOWING VOLATILE ORGANIC COMPOUNDS,

I _____, hereby certify that this waste material corresponding to
(printed name)

Approval or T#_____ contains the constituents specified below.

NO, THE WASTE **DOES NOT** CONTAIN ANY OF THE FOLLOWING VOLATILE ORGANIC COMPOUNDS,

I S. RENNINGER, hereby certify that this waste material corresponding to
(printed name)

Approval or T# 908688 contains none of the constituents specified below.

Compound	*Concentration (mg/kg)*	*Compound*	*Concentration (mg/kg)*
Acetone	NA	Ethyl acetate	NA
Benzene		Ethyl benzene	
Bromodichloromethane		Ethyl ether	
Bromoform		2-Ethoxyethanol	
n-Butyl alcohol		Isobutanol	
Carbon disulfide		Methanol	
Carbon tetrachloride		Methylene chloride	
Chlorobenzene		Methyl ethyl ketone	
Chlorodibromomethane		Methyl isobutyl ketone	
Chloroethane		Nitrobenzene	
2-Chloroethyl vinyl ether		2-Nitropropane	
Chloroform		Pyridine	
Creosol		1,1,2,2-Tetrachloroethane	
Cyclohexanone		Tetrachloroethylene	
1,2-Dichlorobenzene		1,1,1-Trichloroethane	
1,3-Dichlorobenzene		1,1,2-Trichloroethane	
1,2-Dichloroethane		Trichlorofluoromethane	
1,4-Dichloroethane		1,1,2-Trichloro-1,2,2-trifluoroethane	
trans-1,2-Dichloroethene		Toluene	
1,2-Dichloropropane		Xylene	
cis-1,3-Dichloropropene			
trans-1,3-Dichloropropene			

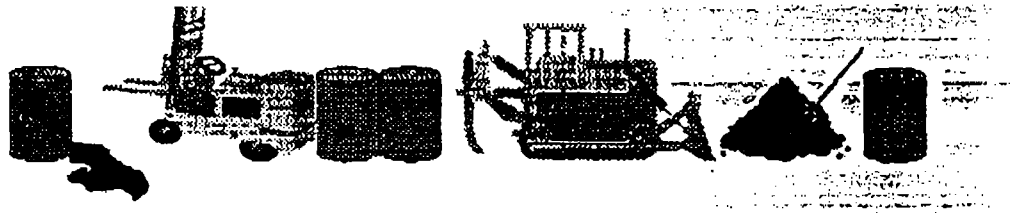
I hereby certify that all information submitted on this and all associated documents is complete and accurate to the best of my knowledge and information.

Signature(X) S. R Title OSC

Company Name EPA Date 2/10/97

© 1996 EQ - The Environmental Quality Company FORM 1031 (9/96)

SMITH
TECHNOLOGY CORPORATION



Fax Cover Sheet

To: Steve

Company:

Phone:

Fax:

From: Todd L. Ritsema
Transportation & Disposal Coordinator
ERCS EPA Region V
Program Management Office

Company: SMITH TECHNOLOGY CORPORATION
Construction & Remediation Services
2080 S. Carboy Road
Mt. Prospect, Illinois 60056

Phone: 847-437-3408
ERCS Fax: 847-437-6064

Date: 2-10-97

Number of pages : 3

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Comments:

addl Certification forms for the acid solids and caustic Solids from EQ.

Sign and fax to Liz Hillgren at EQ at 313-699-3499

Call w/ ?s. TR

Please Send Today.

DYNECOL
MID 074259565

DYNECOL, INC.

6520 GEORGIA STREET
DETROIT, MICHIGAN 48211
PHONE: (313) 571-7141
FAX: (313) 571-7190

Recertification: Y (N)

WASTE APPROVAL FORM

Approval #_____ Code_____

I GENERAL INFORMATION

Customer: Smith Technology	Generator: USEPA Dayton Electroplate
Address: 2080 S. Carboy	Address: 1030 Valley ST
City: Mt Prospect	City: Dayton
State: IL Zip Code: 60056	State: OH Zip Code: 45404
Contact: Todd Ritsema	Contact: Steve Renninger
Phone #: 847-437-3408 Fax: 847-437 6064	Phone #: 937-223-6768 Fax: 937-223-6762
24 hour phone #: 800-334-0004	EPA ID#: OHD004278628

II WASTE DESCRIPTION

Waste Common Name: Caustic Solids

Specific Process Generating the Waste: CERCLA clean up of a former Chrome, zinc plating facility.

WASTE COMPOSITION (must equal 100%):	ACTUAL %	MIN.	MAX.
Hydroxide Solids		10	30
Sodium / Potassium			
Surfactants / Cleaners		20	50
Vat Bottom Sludge		15	50

CIRCLE YES (Y) OR NO (N) TO THE FOLLOWING CHARACTERISTICS OR CONTAMINANTS

Carcinogen Y (N) Oxidizer Y (N) Organics Y (N) Explosives Y (N) Phenols Y (N) Hexavalent Chromium Y (N)
Radioactives Y (N) Poison Y (N) PCBs Y (N) Pesticides Y (N)

As defined in 40 CFR 268: ( ) Non-wastewater ( ) Wastewater LIQUID (SOLID) SLURRY

Sample submitted to Dynecol: (Y) N Color: Tan

III RCRA/ACT 64 WASTE CHARACTERIZATION

This is a hazardous waste as defined by either Michigan Act 64 or EPA 40 CFR 261: Yes ✓ No_____

If yes, list all waste codes: D002 D007

This is a non-hazardous waste as defined by Michigan Act 136: Yes_____ No ✓

If yes, list all waste codes:

This waste contains a toxicity characteristic of 40 CFR 261.24 identified as waste codes D018 through D043:
Yes_____ No ✓ * Unknown_____

If yes, list all waste codes:

* If based on generator knowledge, please read and understand certification in Section VI

IV SHIPPING INFORMATION

Waste Volume: 15 UNIT: (circle one) GALLONS POUNDS (DRUMS) OTHER

Shipment Frequency: (circle one) WEEK MONTH QUARTER YEAR (ONE TIME ONLY)

DOT Proper Shipping Name per 49 CFR 172.101:
Waste Corrosive solids, basic, inorganic, n.o.s.

DOT Hazard Class: 8 UN/NA Number: UN 3263 Packing Group: I II (III) None

V COMMENTS

VI GENERATOR CERTIFICATION

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, and I believe that the information I submitted is true, accurate and complete.

S. RENNINGER — 2 / 5 / 97
Generator Name (Please print or type) — Date

(x) [signature] — OSC
Generator Signature — Title

VII WASTE ANALYSIS

MINIMUM ANALYTICAL REQUIREMENTS FOR HAZARDOUS WASTES ARE (All Methods per SW846):

- Flash, pH, and Reactives (Detection limit of 20ppm for Cyanide and Sulfide)
- PCBs, %HOCs (Method 9020), Nickel and Thallium
- TCLP metals: Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver
- Michigan metals: Copper and Zinc

(The above items may be restricted from land disposal.)

LABORATORY ANALYSIS IS ATTACHED FOR THE ABOVE ITEMS:

Yes____ No ✓ Complete____ Partial____* MSDS____

* [signature] Authorization for Dynecol to perform analysis as necessary

Purchase Order #____

VIII DYNECOL USE ONLY

Approval #: ____

Treatment Facility: ____ CMF: ____

Approved by: ____ Date: ____

Expiration date: ____

DYNECOL
MID 074259565

DYNECOL, INC.

(313) 571-7141

CERTIFICATION FORM

Universal Treatment Standards (UTS) / Volatile Organic Compounds (VOC)

Approval #: _____ Waste Type: Caustic Solids

Generator Name: USEPA Dayton Electroplate EPA ID#: OHD042786 28

The EPA has promulgated treatment standards for characteristic wastes. Characteristic wastes which have been treated to remove the characteristic property must also be treated to remove any underlying hazardous constituents. The "Underlying Hazardous Constituents" MUST be identified for waste streams which carry one or more of the following waste codes: **D001** (Ignitibility), if not treated by RORGS or CMBST (i.e. D001 high TOC subcategory), **D002** (Corrosivity), **D003** (Reactivity), **D012-D043** (Toxicity), if not treated in a Clean Water Act (CWA), or CWA equivalent or Safe Drinking Water Act facility.

This certification form is also required for hazardous wastes from non-specific sources pertaining to spent halogenated and non-halogenated solvents (**F001-F005**). The "Regulated Hazardous Constituents" must be identified for these wastes.

Also, Dynecol must now track the volatile organic content of the waste it receives. For wastes containing less than 500 mg/kg total VOCs, generators should certify in the appropriate box. Wastes containing greater than or equal to 500 mg/kg total VOCs require that the volatile organic compounds be identified. The compounds pertaining to this requirement are marked "**VOC**" on the "Underlying Hazardous Constituents Table/Volatile Organic Compounds Table".

Dynecol, Inc. is requesting **GENERATOR** certification whether the waste material contains hazardous constituents as listed in 40 CFR 268.42 Table UTS-- Universal Treatment Standards or Volatile Organic Compounds (VOC). The generator may make these determinations based on waste analysis data and/or knowledge of the waste. These constituents are listed on the "Underlying Hazardous Constituents Table / Volatile Organic Compounds Table" included with this form.

Please specify the following:

- [ ] The material DOES NOT contain Underlying Hazardous Constituents (constituents are not present or present at a concentration below the treatment standard).
- [x] The material DOES contain Underlying Hazardous Constitents (constituents are present at a concentration above the treatment standard). Please specify these constituents on the UHC/VOC Table and attach.
- [x] The material DOES NOT contain Volatile Organic Compounds (VOC concentration is less than 500 mg/kg).
- [ ] The material DOES contain Volatile Organic Compounds (VOC concentration is greater than or equal to 500 mg/kg). Please specify these compounds on the UHC/VOC Table and attach.

I certify under penalty of law that I have personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste, and 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 a possibility of a fine and/or imprisonment.

Authorized Signature	Printed Name	Date
[signature]	S. RENNINGER	2/5/97

ANNUAL CERTIFICATION--GENERATOR MUST RETAIN A COPY OF THIS DOCUMENT

UNDERLYING HAZARDOUS CONSTITUENTS TABLE / VOLATILE ORGANIC COMPOUNDS TABLE

UTSPGNLS REVISED 10/96

Please specify:
- [ ] Wastewater
- [ ] Non-wastewater

Approval#_____ Generator Name: _____

CHECK ALL CONSTITUENTS PRESENT AND SPECIFY WASTEWATER OR NON-WASTEWATER

✓	CONSTITUENT
	ORGANIC CONSTITUENTS:
	A2213
	Acenaphthene
	Acenaphthylene
	Acetone (VOC)
	Acetonitrile
	Acetophenone
	2-Acetylaminofluorene
	Acrolein
	Acrylamide
	Acrylonitrile
	Aldecarb sulfone
	Aldrin
	4-Aminobiphenyl
	Aniline
	Anthracene
	Aramite
	Barban
	Bendiocarb
	Bendiocarb phenol
	Benomyl
	alpha-BHC
	beta-BHC
	delta-BHC
	gamma-BHC
	Benzal Chloride
	Benz(a) anthracene
	Benzene (VOC)
	Benzo(b) fluoranthene
	Benzo(k) fluoranthene
	Benzo(g,h,i) perylene
	Benzo(a) pyrene
	bis(2-Chloroethoxy) methane
	bis(2-Chloroethyl) ether
	bis(2-Chloroisopropyl) ether
	bis(2-Ethylhexyl) phthalate
	Bromodichloromethane (VOC)
	Bromoform(Tribromomethane)(VOC)
	Bromomethane(Methyl bromide)
	4-Bromophenyl phenyl ether
	n-Butanol(n-Butyl Alcohol)(VOC)
	Butyl benzyl phthalate
	Butylate
	2-sec-Butyl-4,6-dinitrophenol(Dinoseb)
	Carbaryl
	Carbenzadim
	Carbofuran
	Carbofuran phenol
	Carbon disulfide (VOC)
	Carbon tetrachloride (VOC)
	Carbosulfan
	Chlordane (alpha and gamma)
	p-Chloroaniline
	Chlorobenzene (VOC)
	Chlorobenzilate
	2-Chloro-1,3 butadiene
	Chlorodibromomethane (VOC)
	Chloroethane (VOC)
	Chloroform (VOC)
	p-Chloro-m-cresol
	2-Chloroethyl vinyl ether (VOC)
	Chloromethane (Methyl Chloride)
	2-Chloronaphthalene
	2-Chlorophenol

✓	CONSTITUENT
	3-Chloropropylene
	Chrysene
	m-Cresol (VOC)
	p-Cresol (VOC)
	o-Cresol (VOC)
	m-Cumenyl methylcarbamate
	Cycloate
	Cyclohexanone (VOC)
	o,p'-DDD
	p,p'-DDD
	o,p'-DDE
	p,p'-DDE
	o,p'-DDT
	p,p'-DDT
	Dibenz (a,h) anthracene
	Dibenzo (a,e) pyrene
	1,2-Dibromo-3-chloropropane
	1,2-Dibromoethane (ethylene dibromide)
	Dibromoethane
	m-Dichlorobenzene (VOC)
	o-Dichlorobenzene (VOC)
	p-Dichlorobenzene
	Dichlorodifluoromethane
	1,1-Dichloroethane
	1,2-Dichloroethane (VOC)
	1,4-Dichloroethane (VOC)*
	1,1-Dichloroethylene
	trans-1,2-Dichloroethylene(VOC)
	2,4-Dichlorophenol
	2,6-Dichlorophenol
	2,4-D
	1,2-Dichloropropane (VOC)
	cis-1,3-Dichloropropylene (VOC)
	trans-1,3-Dichloropropylene (VOC)
	Dieldrin
	Diethyl phthalate
	Diethylene glycol, dicarbamate
	p-Dimethylaminoazobenzene
	2,4-Dimethyl phenol
	Dimethyl phthalate
	Di-n-butyl phthalate
	1,4-Dinitrobenzene
	4,6-Dinitro-o-cresol
	2,4-Dinitrophenol
	2,4-Dinitrotoluene
	2,6-Dinitrotoluene
	Di-n-octyl phthalate
	Di-n-propylnitrosamine
	1,4-Dioxane
	Diphenylamine
	Diphenylnitrosamine
	1,2-Diphenylhydrazine
	Disulfoton
	Dithiocarbamates (total)
	Endosulfan I
	Endosulfan II
	Endosulfan sulfate
	Endrin
	Endrin aldehyde
	EPTC
	2-Ethoxyethanol (VOC)*
	Ethyl acetate (VOC)
	Ethyl benzene (VOC)
	Ethyl cyanide (Propanenitrile)

✓	CONSTITUENT
	Ethyl ether (VOC)
	Ethyl methacrylate
	Ethylene oxide
	Famphur
	Fluoranthene
	Fluorene
	Heptachlor
	Heptachlor epoxide
	Hexachlorobenzene
	Hexachlorobutadiene
	Hexachlorocyclopentadiene
	Hexachlorodibenzo-furans
	Hexachlorodibenzo-p-dioxins
	Hexachloroethane
	Hexachloropropylene
	Indeno (1,2,3-c,d) pyrene
	Iodomethane
	Isobutanol (VOC)
	Isodrin
	Isolan
	Isosafrole
	Kepone
	Methacrylonitrile
	Methanol (VOC)
	Methapyrilene
	Methiocarb
	Methomyl
	Methoxychlor
	3-Methylcholanthrene
	4,4-Methylene bis(2-chloroaniline)
	Methylene chloride (VOC)
	Methyl ethyl ketone (VOC)
	Methyl isobutyl ketone(VOC)
	Methyl methacrylate
	Methyl methansulfonate
	Methyl parathion
	Metolcarb
	Mexacarbate
	Molinate
	2 Naphthylamine
	Naphthalene
	o-Nitroaniline
	p-Nitroaniline
	Nitrobenzene (VOC)
	5-Nitro-o-toluidine
	o-Nitrophenol
	p-Nitrophenol
	2-Nitropropane (VOC)*
	N-Nitroso-di-n-butylamine
	N-Nitrosodiethylamine
	N-Nitrosomethylethylamine
	N-Nitrosomorpholine
	N-Nitrosopiperidine
	N-Nitrosopyrrolidine
	Oxamyl
	Parathion
	Total PCB's
	Pebulate
	Pentachlorobenzene
	Pentachlorodibenzo furans
	Pentachlorodibenzo-p-dioxins
	Pentachloroethane
	Pentachloronitrobenzene
	Pentachlorophenol

✓	CONSTITUENT
	Phenacetin
	Phenanthrene
	Phenol
	o-Phenylenediamine
	Phorate
	Phthalic acid
	Phthalic anhydride
	Physostigmine
	Physostigmine salicylate
	Promecarb
	Pronamide
	Propham
	Propoxur
	Prosulfocarb
	Pyrene
	Pyridine (VOC)
	Safrole
	1,2,4,5-Tetrachlorobenzene
	Tetrachlorodibenzo-furans
	Tetrachlorodibenzo-p-dioxins
	1,1,1,2-Tetrachloroethane
	1,1,2,2-Tetrachloroethane (VOC)
	Tetrachloroethylene (VOC)
	2,3,4,6-Tetrachlorophenol
	Thiodicarb
	Thiophanate-methyl
	Tirpate
	Toluene (VOC)
	Toxaphene
	Triallate
	1,2,4-Trichlorobenzene
	1,1,1-Trichloroethane (VOC)
	1,1,2-Trichloroethane (VOC)
	Trichloroethylene
	Trichlorofluoromethane(VOC)
	2,4,5-Trichlorophenol
	2,4,6-Trichlorophenol
	2,4,5-T
	2,4,5-TP (Silvex)
	1,2,3 Trichloropropane
	1,1,2-Trichloro-1,2,2-trifluoroethane (VOC)
	Triethylamine
	tris(2,3-Dibromopropyl) phosphate
	Vernolate
	Vinyl chloride
	Xylene-sum of mixed isomers (VOC)
	METALS AND INORGANICS:
	Antimony
	Arsenic
	Barium
	Beryllium
	Cadmium
✓	Chromium (Total)
	Cyanide (Total)
	Cyanide (Amenable)
	Fluoride**
	Lead
	Mercury (retort residues)
	Mercury (all others)
✓	Nickel
	Selenium
	Silver
	Sulfide
	Thallium