DYNECOL

US EPA RECORDS CENTER REGION 5
439302

DYNECOL, INC.

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

February 25, 1997

TODD RITSEMA
SMITH ENVIRONMENTAL TECHNOLOGIES
2080 CARBOY RD.
MT. PROSPECT IL 60056

Dear TODD RITSEMA:

Dynecol, Inc. is pleased to provide the following quotation for managing the waste stream outlined on our Waste Approval Acknowledgment.

Based on evaluation and analysis of the representative sample, pricing is as follows:

Approval Number: 104087 Effective Date: 2/25/97

Waste Name: POTASSIUM PERMANGANATE
Dollar Amount
Price: [redacted] Ex.4 Per: DRUM

Transportation: NOT INCLUDED
Minimum Disposal Charge Per Shipment: [redacted] Dollar Amount Ex.4
Quote Firm For: 30 DAYS Payment Terms: NET 30

This quotation is based upon information summarized in Dynecol's Waste Approval Acknowledgement (attached). Upon Dynecol's receipt of the waste shipment, any variation in waste parameters may result in a surcharge or rejection of the waste. Non-RCRA empty tankers (40 CFR 261.7 (b)) will incur a minimum $150 wash out fee.

Thank you for the opportunity to quote on your waste management requirements. If you have any questions, please call your sales representative.

Sincerely,

Christine Segatti
Customer Service Supervisor

THE ENVIRONMENTAL QUALITY COMPANY®

Generator Approval Notification ***February 17, 1997***

Customer: SMITH ENVIRONMENTAL - IL, IN, MO

STEVE RENNINGER
US EPA DAYTON ELECTOPLATING
1030 VALLEY ST
DAYTON OH 45054

This Generator Approval Notification acknowledges the acceptability of waste material(s) into the EQ environmental protection facility identified below and ensures that this facility has the appropriate permit(s) issued by federal and state regulatory agencies to properly transport, treat, and/or disposal of the waste material(s).

EQ FACILITY: **EQ-The Environmental Quality Company (MID000724831)**
49350 North I-94 Service Drive, Belleville, Michigan 48111

Approval Number
021397TA

The Approval(s) listed on the following page(s) are based upon information supplied to EQ by your company. The generator is ultimately responsible for the accuracy and completeness of the characterization information provided and other information that was provided during the technical approval process. The generator must notify the EQ Customer Satisfaction Department immediately upon knowledge of any changes to this information.

The Approval(s) will expire on the date(s) noted on the following page(s). Any new Approvals obtained from EQ on future business will be valid for a period of one (1) year from the date of issuance. Within 90 days of the Approval Expiration Date, you will be notified of the requirements for recertification. Please contact our Scheduling Department at 1-800-TRKTRAC (875-8722) to coordinate delivery of your waste stream(s).

If you have any questions, please call us toll free at
1-800-KWALITY (592-5489)

YOUR BUSINESS. OUR SOLUTIONS. A PRODUCTIVE PARTNERSHIP®

THE ENVIRONMENTAL QUALITY COMPANY ®

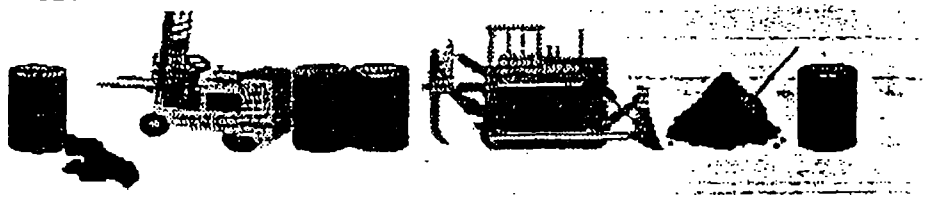
Generator Approval Notification *February 17, 1997*

Customer: SMITH ENVIRONMENTAL - IL, IN, MO

EQ FACILITY: EQ-The Environmental Quality Company (MID000724831)

Approval Number:	021397TA		
Generator Name:	US EPA DAYTON ELECTOPLATING		
Waste Common Name:	POTASSIUM PERMANGANATE		
Generator EPA ID #:	OHD004278628	**Approved Container:**	DRUM
Primary Waste Code:	D001	**Approval Expires On:**	02/14/98
Secondary Waste Code(s):	NONE		
Generator Comments:			

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: 2-17-97

Number of pages : 3

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Comments:

Profile for Potassium Permanganate.
No Sample Required.

Please Sign and fax to Chris Segatti
at Dynecol at 313-571-7190

Call w/ ?'s.

TR

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: 937223 6772
24 hour phone #: 800-334-0004	EPA ID#: OHD004278628

II WASTE DESCRIPTION

Waste Common Name: Potassium Permanganate

Specific Process Generating the Waste: Cencia Clean Up. - Balance of unused material

WASTE COMPOSITION (must equal 100%):	ACTUAL %	MIN.	MAX.
Potassium Permanganate		30	70
Inert Ingredients		40	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: Black Powder

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: D001

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

Revised April 94

IV SHIPPING INFORMATION

Waste Volume: 2 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 Oxidizing Solid, n.o.s (Potassium Permanganate)

DOT Hazard Class: 5.1 UN/NA Number: UN1479 Packing Group: I II III None

V COMMENTS

See MSDS. - Balance of unused material

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. RONNINGER — 2/20/97
Generator Name (Please print or type) — Date

S. R — 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 ✓

* Authorization for Dynecol to perform analysis as necessary

Purchase Order # ____

VIII DYNECOL USE ONLY

Approval #: ____

Treatment Facility: ____ CMF: ____

Approved by: ____ Date: ____

Expiration date: ____

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
EPA
REGION V
EMERGENCY RESPONSE TEAM

DAYTON ELECTROPLATING SITE
PHONE NO. (937) 223-6768
FAX NO. (937) 223-6772

INCLUDING THIS PAGE THERE ARE 3 PAGES BEING TRANSMITTED.

DATE: 2-20-97

TO: Chris Segatti

COMPANY: Dynecol

PHONE: FAX: 313-571-7190

FROM: Steve Renninger U.S. EPA OSC

COMMENTS:

THE ENVIRONMENTAL QUALITY COMPANY ®

Customer Acct #2309

Customer Approval/Quote Confirmation

February 14, 1997

EQ FACILITY: EQ-The Environmental Quality Company (MID000724831)

Approval Number:	021397TA		
Generator Name:	US EPA DAYTON ELECTOPLATING		
Waste Common Name:	POTASSIUM PERMANGANATE		
Generator EPA ID #:	OHD004278628	**Approval Expires On:**	02/14/98
Customer Quote#:	25000780-0	**Price:**	[redacted] line Ex.4
Approved Container:	DRUM	**Surcharge:**	Exempt
Primary Waste Code:	D001		
Secondary Waste Code(s):	NONE		
Customer Comments:			

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# 908689 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.

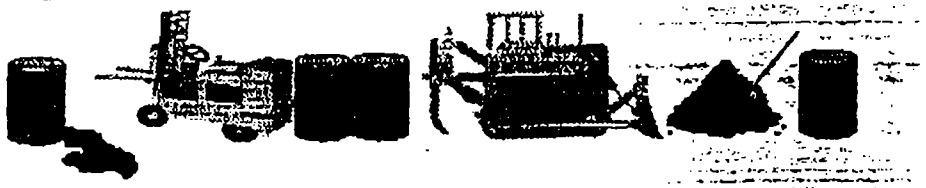
Signature(X) S.R. Title OSC

Company Name EPA Date 2/11/97

© 1996 EQ - The Environmental Quality Company

FORM 1031 (9/96)

SMITH TECHNOLOGY CORPORATION



Fax Cover Sheet

To: Steve

Company:

Phone:

Fax: 937-223-6772

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: 2-11

Number of pages : 2

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Comments:

Certification form for Potassium Permangonate

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

Call w/ ?'s

TR

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
EPA
REGION V
EMERGENCY RESPONSE TEAM

DAYTON ELECTROPLATING SITE
PHONE NO. (937) 223-6768
FAX NO. (937) 223-6772

INCLUDING THIS PAGE THERE ARE 2 PAGES BEING TRANSMITTED.

DATE: 02-11-97

TO: Liz Hillgren

COMPANY: EQ

PHONE: FAX: 313-699-3499

FROM: Steve Renninger U.S. EPA OSC

COMMENTS:

WASTE CHARACTERIZATION REPORT

☒ New Waste? ☐ Reapproval? *Previous Approval No.* _____ T# _____

Section A - Treatment and Disposal

(please check one)

☒ Michigan Disposal Waste Treatment Plant
(Waste Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
Customer Satisfaction: (800) 592-5489

☐ Michigan Recovery Systems, Inc.
(Waste Solvent Recovery, Fuel Blending)
36345 Van Born Road
Romulus, MI 48174
Customer Satisfaction: (800) 521-0998

☐ Wayne Disposal, Inc. – Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
Customer Satisfaction: (800) 592-5489

Are transportation, site or special services needed?
✓ Yes ____ No
If yes, please explain _____

Section B - Customer Information

SIC # _____
Generator US EPA ID # OHD004278628
Generator U.S. EPA Dayton Electroplate
Facility Address 1030 Valley ST
City Dayton State OH Zip 45404

Mailing Address (if different) 26 W. MLK DR. (B-3)
City Cincinnati State OH Zip _____
Generator Contact Steve Renninger
Title ON Scene COORDINATOR
Phone 937-223-6768 Fax 937-223-6762

EQ Customer No. 2309
Invoicing Company Smith Technology
Address 2080 S. Carboy
City Mt Prospect State IL Zip 60056
Country U.S.
Invoicing Contact Todd Ritsema
Phone 847-437-3408 Fax 847-437-6064
Technical Contact Same
Phone _____ Fax _____
Purchasing Contact Same

Is a Purchase Order or Release required for EQ to receive payment on this waste stream? ✓ Yes ____ No
If yes, please list P.O. and/or Release No: To Follow
Is this waste stream Surcharge Exempt? ✓ Yes ____ No
If yes, Surcharge Exemption Form must be submitted with this Waste Characterization Report and with every waste shipment.

Section C - Shipping and Handling Information

1) Is this waste Reactive, Shock Sensitive, Pyrophoric, Explosive, Infectious or Radioactive? ____ Yes ✓ No
If yes, please explain and/or call 1-800-592-5489 for assistance _____

2) Is this waste an Oxidizer? X Yes ____ No
3) Shipping mode: ☐ Bulk Solid (Yd³ < 2000 lbs/yd³) ☐ Bulk Solid (Ton > 2000 lbs/yd³) ☐ Bulk Liquids (gal)
☐ Cubic Yard Boxes ☒ Drums ☐ Other (palletized, 5 gallon pails, etc.) _____
4) Shipping volume per year _____ One time only volume 2 x 55 gl DF (please explain)
5) DOT shipping name Waste Oxidizing Solid n.o.s.
Hazard Class 5.1 UN/NA Number UN1479

Section D - Physical Characteristics

1) Color (describe): Black Odor (describe): _____ Free Liquids (%): 0 Solids (%): 100
2) pH Range: ☐ <2 ☐ 2 - 4.9 ☐ 5 - 9.9 ☒ 10 - 12.4 ☐ >12.5
3) Flash Point: ☐ <90 °F ☐ 90 - 140 °F ☐ >140 °F ☒ >200 °F
4) Physical state at 70 °F: ☒ Solid ☐ Dust ☐ Liquid ☐ Soil ☐ Sludge (non pumpable)
5) Does this waste contain debris? ____ Yes ✓ No

Section E - Generating Process and Regulatory Information

1) Waste common name: Potassium Permanganate

2) Provide a *detailed* description of the process(es) generating this waste (describe each step and attach a flow diagram, if available): CERCLA Clean up of former plating facility.

3) Describe the composition of the waste (attach analytical data or MSDS's, if available):

Potassium Permanganate	to	30-70 %
Inert Ingredients	to	40-50 %
	to	%
	to	%
	to	%
		Total = 100 %

4) Based upon RCRA waste regulations (40 CFR 261), Michigan Act 451 Rules, and TSCA regulations:

	Yes	No	Code or Comment
A) Is this an EPA RCRA hazardous waste (D, F, K, U or P)?	✓		D001
B) Does this waste leach Copper>100 mg/l or Zinc>500 mg/l?		✓	
C) Is this an EPA RCRA Characteristic (D-coded) hazardous waste containing underlying hazardous constituents? If yes, please fill out UTS Certification Form provided.		✓	
D) Is this a Michigan Act 451 nonhazardous liquid waste?		✓	
E) Is this a Michigan Act 451 hazardous waste?		✓	
F) Does this waste exceed LDR treatment standards?	✓		D001
G) Does this waste contain free liquids? (use paint filter test)		✓	
H) Does this waste contain metallic fines or powders?		✓	
I) Does this waste contain greater than or equal to 500 ppmw VOC?		✓	
J) Does this waste contain reactive cyanide above 250 ppm or reactive sulfide above 500 ppm?		✓	
K) Is this a dioxin or furan bearing waste as per 40 CFR part 261.31?		✓	
L) Does this waste contain HOCs >1000 ppm?		✓	
M) Is this a liquid waste containing Nickel >134 mg/l or Thallium >130 mg/l?		✓	
N) Does this waste contain asbestos?(friable or nonfriable?)		✓	
O) Does this waste contain biodegradable sorbents?		✓	
P) Is this a PCB waste regulated by TSCA? If yes, please complete Section G.		✓	

Section F - Reclamation/Recycling/Fuel Blending

(Complete for Michigan Recovery Systems, Inc. Only)

Heat value (BTU/lb): N/A 3) Chlorine(%): N/A 5) PCBs (total ppm): N/A

Water (%): N/A 4) Solids (%): N/A

Section G - PCB

(Complete only if you answered "yes" to Section E, Question 4P)

Does the waste contain PCBs at >50 ppm or is the PCB contamination from a source with concentration of >50 ppm? ____Yes ✓No

Does this waste contain free liquids? (use paint filter test) ____Yes ____No

Is the non-liquid PCB waste in the form of soil, rags, or other debris? ____Yes ✓No

Do the PCB capacitors come from a PCB capacitor or equipment manufacturer? ____Yes ____No ✓NA

Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained of

Section H - TCLP Regulatory Action Levels Certifications

Please indicate which constituent concentrations are below the regulatory level in column 1 or write in the actual level if the concentration is greater than the regulatory level in column 2:

Based on: ☐ Analysis ☒ Generator Knowledge (Is analysis attached? ___ Yes ✓ No)

Code		(1) Concentration (mg/l)		(2) Actual Concentration	Code		(1) Concentration (mg/l)		(2) Actual Concentration
D004	Arsenic		<5		D023	O-Cresol		<200	NA
D005	Barium		<100		D024	M-Cresol		<200	
D006	Cadmium		<1		D025	P-Cresol		<200	
D007	Chromium		<5		D026	Cresols		<200	
D008	Lead		<5		D027	1,4-Dichlorobenzene		<7.5	
D009	Mercury		<0.2		D028	1,2-Dichloroethane		<0.5	
D010	Selenium		<1		D029	1,1-Dichloroethylene		<0.7	
D011	Silver		<5		D030	2,4-Dinitrotoulene		<0.13	
001D	Copper		<100		D031	Heptachlor		<0.008	
003D	Zinc		<500		D032	Hexachlorobenzene		<0.13	
D012	Endrin		<0.02	NA	D033	Hexachlorobutadiene		<0.5	
D013	Lindane		<0.4		D034	Hexachloroethane		<3.0	
D014	Methoxychlor		<10		D035	Methyl Ethyl Ketone		<200	
D015	Toxaphene		<0.5		D036	Nitrobenzene		<2	
D016	2,4-D		<10		D037	Pentachlorophenol		<100	
D017	2,4,5-TP(silvex)		<1		D038	Pyridine		<5	
D018	Benzene		<0.5		D039	Tetrachloroethylene		<0.7	
D019	Carbon-Tetrachloride		<0.5		D040	Trichloroethylene		<0.5	
D020	Chlordane		<0.03		D041	2,4,5-Trichlorophenol		<400	
D021	Chlorobenzene		<100		D042	2,4,6-Trichlorophenol		<2	
D022	Chloroform		<6.0		D043	Vinyl Chloride		<0.02	

Section I - Benzene NESHAP 40 CFR 61, subpart FF

1) Does the waste stream come from a facility with one of the SIC codes listed under the NESHAP?
___ Yes ✓ No If yes, which SIC Number? _____
2) Does the waste contain >10% water? ___ Yes ✓ No
3) Does your company treat wastes from facilities with Total Annual Benzene (TAB) >10 Mg/year? ___ Yes ✓ No
4) Does the waste contain >1.0 mg/kg total Benzene? ___ Yes ✓ No
If no to Question 4, stop here. If yes, please answer the remaining questions.
5) What is the total Benzene concentration in your waste? percent or ___0___ ppmw.
(Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602, and 624.)
6) What is the TAB quantity for your facility? ___0___ Mg/Year

NESHAP SIC CODES		
2812	2836	2875
2813	2841	2879
2816	2842	2891
2819	2843	2892
2821	2844	2893
2822	2851	2895
2823	2861	2899
2824	2865	2911
2833	2869	3312
2834	2873	4959
2835	2874	9511

Section J - Certification

I authorize EQ's Resource Team to add supplemental information to the waste approval file provided I am contacted and give verbal permission. I authorize EQ's Resource Team to obtain a sample from any waste shipment for purposes of verification and confirmation.

I certify that all information (including attached information) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein.

Signature: [signature] Title: OSC

Printed Name: S. RENNINGER Date: 2/5/97

ATTACHMENT 1
40 CFR 268.48 TABLE — UNIVERSAL TREATMENT STANDARDS (UTS); NON-WASTEWATER

VSEPA Dayton Electroplate — Potassium Permanganate

(Generator Name) — (Waste Stream) — (Approval/Tracking No.)

Please check all constituents present in the waste material.

SEMIVOLATILES:

	mg/Kg	
☐	3.4	Acenaphthene
☐	3.4	Acenaphthylene
☐	9.7	Acetophenone
☐	140	2-Acetylaminofluorene
☐	23	Acrylamide
☐	14	Aniline
☐	3.4	Anthracene
☐	6.0	Benzal Chloride
☐	3.4	Benz (a) anthracene
☐	6.8	Benzo (b) fluoranthene
☐	6.8	Benzo (k) fluoranthene
☐	1.8	Benzo (g,h,i) perylene
☐	3.4	Benzo (a) pryene
☐	7.2	Bis (2-Chloroisopropyl)ether
☐	15	4-Bromophenyl phenyl ether
☐	28	Butyl benzyl phthalate
☐	16	p-Chloraniline
☐	7.2	bis(2-Chloroethoxy) Methane
☐	6.0	bix (2-Chlorethyl) ether
☐	3.4	Chrysene
☐	5.6	m-Cresol
☐	5.6	p-Cresol
☐	5.6	0-Cresol
☐	14	p-Chloro-m-cresol
☐	5.6	2-Chloronaphthalene
☐	5.7	2-Chlorophenol
☐	8.2	Dibenz (a,h) anthracene
☐	0.10	tns (2,3-Dibromopropyl) phosphate
☐	6.0	m-Dichlorobenzene
☐	6.0	o-Dichlorobenzene
☐	6.0	p-Dichlorobenzene

	mg/Kg	
☐	14	2,4-Dichlorophenol
☐	14	2,6-Dichlorophenol
☐	28	Diethyl Phthalate
☐	14	2,4-Dimethyl phenol
☐	28	Dimethyl phthalate
☐	28	Di-n-butyl phthalate
☐	2.3	1,4-Dinitrobenzene
☐	2.5	2-sec-Butyl-4,6dinitrophenol (Dinoseb)
☐	160	4,6-Dinitro-o-cresol
☐	160	2,4-Dinitrophenol
☐	140	2,4-Dinitrotoluene
☐	28	2,6-Dinitrotoluene
☐	28	Di-n-octyl phthalate
☐	14	Di-n-propylnitrosamine
☐	13	Diphenylamine
☐	13	Diphenylnitrosamine
☐	28	bis(2-Ethylhexyl) phthalate
☐	3.4	Fluoranthene
☐	3.4	Fluorene
☐	10	Hexachlorobenzene
☐	5.6	Hexachlorobutadiene
☐	30	Hexachloroethane
☐	2.4	Hexachlorocyclopentadiene
☐	30	Hexachloropropylene
☐	3.4	Indeno (1,2,3-c,d) pyrene
☐	0.066	Isodrin
☐	2.6	Isosafrole
☐	0.13	Kepone
☐	1.5	Methapyrilene
☐	15	3-Methylcholanthrene
☐	30	4,4-Methylene bis (2-chloroaniline)

	mg/Kg	
☐	4.6	Methyl parathion
☐	14	0-Nitroaniline
☐	28	p-Nitroaniline
☐	14	Nitrobenzene
☐	13	o-Nitrophenol
☐	29	p-Nitrophenol
☐	17	N-Nitrose-di-n-butylamine
☐	28	N-Nitrosodiethylamine
☐	2.3	N-Nitrosodimethylamine
☐	2.3	N-Nitrosomethylethylamine
☐	2.3	N-Nitrosomorpholine
☐	35	N-Nitrosopiperidine
☐	35	N-Nitrosopyrrolidine
☐	28	5-Nitro-o-toluidine
☐	4.6	Parathion
☐	10	Pentachlorobenzene
☐	4.8	Pentachloronitrobenzene
☐	7.4	Pentachlorophenol
☐	16	Phenacetin
☐	5.6	Phenanthrene
☐	6.2	Phenol
☐	28	Phthalic acid
☐	28	Phthalic anhydride
☐	1.5	Pronamide
☐	8.2	Pyrene
☐	16	Pyridine
☐	22	Safrole
☐	14	1,2,4,5-Tetrachlorobenzene
☐	7.4	2,3,4,6-Tetrachlorophenol
☐	7.4	2,4,5-Trichlorophenol
☐	7.4	2,4,6-Trichlorophenol

DIOXINS AND DIBENZOFURANS:

	mg/Kg	
☐	0.001	Pentachlorodibenzo-furans
☐	0.001	Pentachlorodibenzo-p-dioxins

	mg/Kg	
☐	0.001	Hexachlorodibenzo-furans
☐	0.001	Hexachlorodibenzo-p-dioxins

	mg/Kg	
☐	0.001	Tetrachlorodibenzo-furans
☐	0.001	Tetrachlorodibenzo-p-dioxins

CHLORINATED HERBICIDES, ORGANOCHLORINE PESTICIDES, ORGANOPHOSPHORUS COMPOUNDS, INORGANICS, AND PCB'S:

	mg/Kg	
☐	0.066	Aldrin
☐	0.066	alpha-BHC
☐	0.066	beta-BHC
☐	0.066	delta-BHC
☐	0.066	gamma-BHC (Lindane)
☐	0.26	Chlordance (alpha & gamma isomers)
☐	0.087	o,p'-DDD
☐	0.087	p,p'-DDD
☐	0.087	o,p'-DDE
☐	10	2,4-D

	mg/Kg	
☐	0.087	p,p'-DDE
☐	0.087	o,p'-DDT
☐	0.087	p,p'-DDT
☐	0.13	Dieldrin
☐	6.2	Disulfoton
☐	0.066	Endosulfan I
☐	0.13	Endosulfan II
☐	0.13	Endosulfan sulfate
☐	0.13	Endrin
☐	0.13	Endrin aldehyde
☐	15	Famphur

	mg/Kg	
☐	0.066	Heptachlor
☐	0.066	Heptachlor epoxide
☐	0.18	Methoxychlor
☐	10	Total PCB's
☐	4.6	Phorate
☐	2.6	Toxaphene
☐	7.5	2,4,5-T
☐	7.9	2,4,5-TP(Silvex)
☐	590	Cyanides (total)
☐	30	Cyanides (amenable)

USEPA Dayton Electroplate — Potassium Permanganate

(Generator Name) — (Waste Stream) — (Approval/Tracking No.)

Please check all constituents present in the waste material.

CARBAMATE PRODUCTION CONSTITUENTS:

	mg/Kg	
☐	1.4	A2213
☐	0.28	Aldicarb sulfone
☐	1.4	Barban
☐	1.4	Bendiocarb
☐	1.4	Bendiocarb phenol
☐	1.4	Benomyl
☐	1.4	Butylate
☐	0.14	Carbaryl
☐	1.4	Carbendazim
☐	0.14	Carbofuran
☐	1.4	Carbofuran phenol
☐	1.4	Carbosulfan
☐	1.4	*m*-Cumenyl methylcarbamate
☐	1.4	Cycloate
☐	1.4	Diethylene glycol, dicarbamate
☐	1.4	Dimetilan
☐	28	Dithiocarbamates (Total)
☐	1.4	EPTC
☐	1.4	Formetanate hydrochloride
☐	1.4	Formparanate
☐	1.4	3-Iodo-2-propynyl *n*-butylcarbamate
☐	1.4	Isolan
☐	1.4	Methiocarb
☐	0.14	Methomyl
☐	1.4	Metolcarb
☐	1.4	Mexacarbate
☐	1.4	Molinate
☐	0.28	Oxamyl
☐	1.4	Pebulate
☐	5.6	*o*-Phenylenediamine
☐	1.4	Physostigmine
☐	1.4	Physostigmine salicylate
☐	1.4	Promecarb
☐	1.4	Propham
☐	1.4	Propoxur
☐	1.4	Prosulfocarb
☐	1.4	Thiodicarb
☐	1.4	Thiophanate-methyl
☐	0.28	Tirpate
☐	1.4	Triallate
☐	1.5	Triethylamine
☐	1.4	Vernolate

VOLATILES:

	mg/Kg	
☐	160	Acetone
☐	1.8	Acetonitrile
☐	84	Acrylonitrile
☐	10	Benzene
☐	15	Bromodichloromethane
☐	15	Bromoform (Tribromomethane)
☐	15	Bromomethane (Methyl bromide)
☐	2.6	n-Butanol (n-Butyl alcohol)
☐	36	2-Butanone (Methyl ethyl ketone)
☐	6.0	Carbon Tetrachloride
☐	0.28	2-Chloro-1,3 butadiene
☐	6.0	Chlorobenzene
☐	15	Chlorodibromomethane
☐	6.0	Chloroethane
☐	6.0	Chloroform
☐	30	Chloromethane (Methyl Chloride)
☐	30	3-Chloropropylene
☐	15	1,2-Dibromo-3-chloropropane
☐	15	1,2-Dibromoethane (ethylene dibromide)
☐	15	Dibromomethane
☐	7.2	Dichlorodifluoromethane
☐	6.0	1,1-Dichloroethane
☐	6.0	1,2-Dischlorethene
☐	6.0	1,1-Dichloroethylene
☐	30	trans-1,2-Dichloroethylene
☐	18	1,2-Dichloropropane
☐	18	cis-1,3-Dichloropropylene
☐	18	trans-1,3-Dichloropropylene
☐	170	1,4-Dioxane
☐	33	Ethyl acetate
☐	10	Ethyl benzene
☐	360	Ethyl cyanide (Propanenitrile)
☐	160	Ethyl Ether
☐	160	Ethyl Methacrylate
☐	33	2-Hexanone (Methyl isobutyl ketone)
☐	65	Iodomethane
☐	170	Isobutanol (isobutyl alcohol)
☐	84	Methacrylonitrile
☐	30	Methylene chloride
☐	160	Methyl methacrylate
☐	5.6	Naphthalene
☐	6.0	Pentachloroethane
☐	6.0	1,1,1,2-Tetrachloroethane
☐	6.0	1,1,2,2-Tetrachloroethane
☐	6.0	Tetrachloroethylene
☐	10	Toluene
☐	19	1,2,4-Trichlorobenzene
☐	6.0	1,1,1-Trichloroethane
☐	6.0	1,1,2-Trichloroethane
☐	6.0	Trichloroethylene
☐	30	1,2,3-Trichloropropane
☐	30	Trichloromonofluoro methane
☐	30	1,1,2-Trichloro-1,2,2-trifuoroethane
☐	6.0	Vinyl chloride
☐	30	Xylene-mixed isomers (Total)

METALS AND VOLATILES BY TCLP:

	mg/L	
☐	2.1	Antimony
☐	5.0	Arsenic
☐	7.6	Barium
☐	0.014	Beryllium
☐	0.19	Cadmium
☐	0.86	Chromium (total)
☐	0.37	Lead
☐	0.025	Mercury
☐	5.0	Nickel
☐	0.16	Selenium
☐	0.30	Silver
☐	0.078	Thallium
☐	0.23	Vanadium*
☐	5.3	Zinc*
☐	0.75	Methanol
☐	4.8	Carbon disulfide
☐	0.75	Cyclohexanone

*Not underlying hazardous constituents (see 60 FR Jan. 3, 1995)

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ATTACHMENT 2
CERTIFICATION FORM — UNIVERSAL TREATMENT STANDARDS (UTS)

VSEPA Dayton Electroplate	Potassium Permanganate		2-5-97
(Generator)	(Waste Stream)	(Approval/Tracking No.)	(Date)

CERTIFICATION FORM
UNIVERSAL TREATMENT STANDARDS (UTS)

The Environmental Protection Agency (EPA) has promulgated new treatment standards for wastes displaying the characteristic of ignitability (D001), and/or corrosivity (D002), and/or toxicity (D012-43). Those ignitable wastes containing greater than 10% total organic carbon (i.e., D001 high TOC subcategory) do NOT require completion of this Certification Form. [September 19, 1994 (59FR 47982-48110); corresponding to 40 CFR Parts 148, 260, 261, 264, 265, 266, 268, and 271].

In response to these new treatment standards, EQ - The Environmental Quality Company must be assured that all waste streams of concern comply. The generator may make this determination based on waste analysis data, knowledge of the waste or both. When the determination is based on generator knowledge, the EPA requires that the generator's operating record and all supporting data used to make this determination be kept by the generator.

EQ is requesting that you certify that the waste material corresponding to:

Approval or T #_____DOES or DOES NOT *(circle one)* contain hazardous constituents as listed in 40 CFR 268.48 Table — Universal Treatment Standards (UTS), *see Attachment 1*.

IF YOU HAVE MATERIAL THAT **DOES** CONTAIN HAZARDOUS CONSTITUENTS
(constituents are at a concentration **ABOVE** the treatment standard):

I, _____, hereby certify that this waste material corresponding to
(Printed Name)

Approval or T #_____contains only the hazardous constituents that have been circled/marked on Attachment 1.

IF YOU HAVE MATERIAL THAT **DOES NOT** CONTAIN HAZARDOUS CONSTITUENTS
(constituents are at a concentration **BELOW** the treatment standard):

I, S. RENNINGER, hereby certify that this waste material corresponding to
(Printed Name)

Approval or T #_____contains none of the hazardous constituents as listed in 40 CFR 268.48 Table — UTS.

Signature (x) _____ Title OSC

Company Name EPA Date 2/5/97

SURCHARGE EXEMPTION CERTIFICATION

49350 N. I-94 Service Drive Belleville MI 48111 Phone: (800) 592-5489 Fax: (800) 592-5329

Please check one: ☒ Michigan Disposal Waste Treatment Plant ☐ Wayne Disposal, Inc.

This is a certification pursuant to Section 11108(3) of Act 451 of 1994 (the Hazardous Waste Management Act) that the hazardous waste identified herein is exempt from the surcharge provided in the Act.

WASTE TYPE: Potassium Permanganate

WASTE DESCRIPTION: Black To Brown Powder

QUANTITY AND UNITS: 2 x 55 gl DF

MANIFEST NUMBER: _____

This shipment is exempt from the surcharge because the waste is:

_____ Ash from incineration of hazardous and nonhazardous waste.

_____ Hazardous waste exempted by MDEQ rule making action.

X Hazardous waste removed from a contaminated site listed pursuant to Section 6 of Act 307 or hazardous waste that is removed as part of a site clean-up activity at the expense of the state or federal government.

_____ Solidified hazardous waste produced by a solidification facility in Michigan and licensed under Act 64.

_____ Hazardous waste generated by a one time closure or site cleanup activity in Michigan authorized by the Director of the MDEQ.

_____ Solids from an aggressive biological treatment facility.

_____ Emission control dust or sludge from the primary production of steel in electrical furnaces.

Signature ⊗ S. R. Company Name EQ

Printed Name S. RENNINGER Date 2/5/97

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