PASSAIC VALLEY SEWERAGE COMMISSION - HEAVY METAL SOURCE DETERMINATION
PHASE II INDUSTRIAL CONTRIBUTION
SUB-AREA 1

CONTROL NO.	NAME AND ADDRESS OF INDUSTRY	FLOW MGD	TOTAL CADMIUM LBS/DAY (MG/L)	TOTAL CHROMIUM LBS/DAY (MG/L)	TOTAL COPPER LBS/DAY (MG/L)	TOTAL LEAD LBS/DAY (MG/L)	TOTAL NICKEL LBS/DAY (MG/L)	TOTAL ZINC LBS/DAY (MG/L)	TOTAL ARSENIC LBS/DAY (MG/L)	TOTAL MERCURY LBS/DAY (MG/L)
1490	S. B. PENICK & CO. 158 MOUNT OLIVE AVE. NEWARK	0.0880	0.331 (0.068)	0.073 (0.015)	0.297 (0.061)	0.365 < (0.075)	0.024 (0.005)	50.081 < (10.300)	0.005 (0.001)	0.0467 (0.010)
1620	TINCO INC. 644 SOUTH 16TH ST. NEWARK	0.0110	0.006 (0.062)	0.008 (0.092)	0.106 (1.160)	0.305 (3.320)	0.017 (0.180)	0.622 < (6.810)	0.000 (0.001)	< 0.0000 (0.000)
1660	WESTON INSTRUMENT DIVISION 614 FREYLINGHUYSEN AVE. NEWARK	0.0520	0.080 (0.184)	0.041 (0.094)	0.181 (0.417)	0.055 (0.127)	0.159 (0.367)	0.244 < (0.562)	0.000 (0.001)	0.0143 (0.033)
	SUB-AREA 1 TOTAL INDUSTRIAL HEAVY METALS LOCATED-PHASE II		0.957	36.953	17.678	6.093	3.480	59.851	0.040	1.0893

PASSAIC VALLEY SEWERAGE COMMISSIONERS

Date: 7-10-78 Interviewed by: SCOTT & VANMALDEN

PVSC Industry # N-1620

Industrial Wastewater Questionnaire

"attach business card"

Part A

1) Industry Name TIMCO INC.

2) Address 666 (No.) SO. 16th STREET (Street) NEWARK (Municipality)

3) Responsible Person to whom further inquiries should be directed:

TOM PANELLA (Name) SUPERVISOR (Title) 374-3729 (Telephone)

4) Type of Industry HOT, DIP PLATING

5) Primary S.I.C. number, if available 3471
(4 Digit Code from 1976 standard industrial classification manual)

6) Principle Raw Materials(s) used SN

7) Principle Product(s) produced TIN PLATED METALS

8) Hours per day manufacturing operations are conducted 8

Days per week manufacturing operations are conducted 5

Process Discharge Frequency (circle one) (Continuous) Intermittant # of Batches/Day Times of Day

9) Number of employees at this location 6 FULL TIME, 2 PART TIME

10) Indicate plant water consumption figures in gallons or cubic feet during the most recent calender quarter. If you obtain water from a privately owned well and do not meter your consumption from this source, indicate the capacity of the well pump(s) in gallons per minute and the approximate daily running time(s) in hours per day.

845390004

Industrial Wastewater

Questionnaire

Part A

Continued

City or Public Supply	Private Well Supply
140,674 Gallons/Quarter	_____ Gallons/Quarter
18,800 Cubic Feet/Quarter	_____ Cubic Feet/Quarter
NEWARK Name of City or Public Supply	_____ Well Pump(s) Gal/Min.
	_____ Pump Running time(s) Hrs/Day

5 % of Water Used in Actual Process

82.5% of Water Discharged From Process

6.5% of Water Discharged as Non-Contact Cooling Water

6 % of Water Discharged From Sanitary Conveniences

Indicate Location of Water Meter:

IN BASEMENT FRONT RIGHT CORNER OF BUILDING.

845390005

Industrial Wastewater

Questionnaire

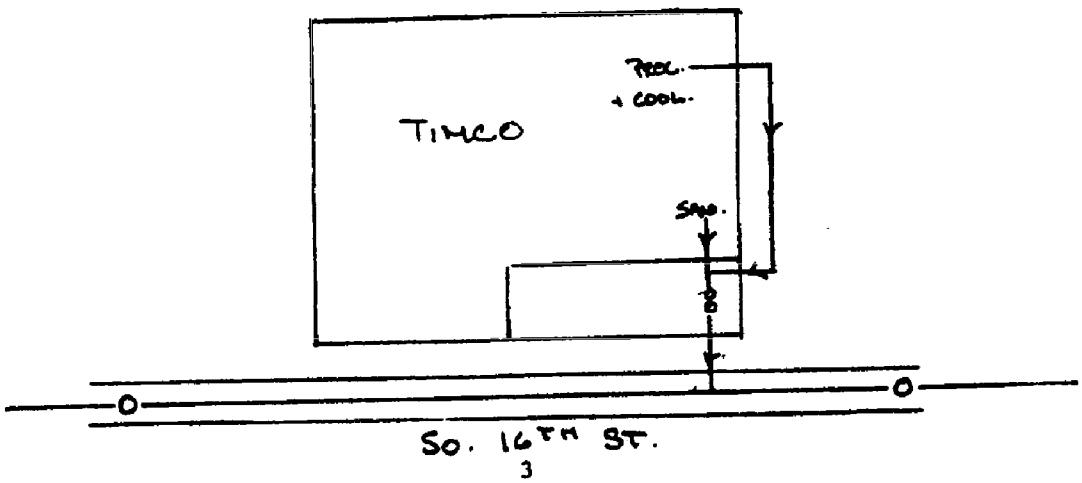
Part B

1) Number of metal contributing discharge points to municipal sewer: 1

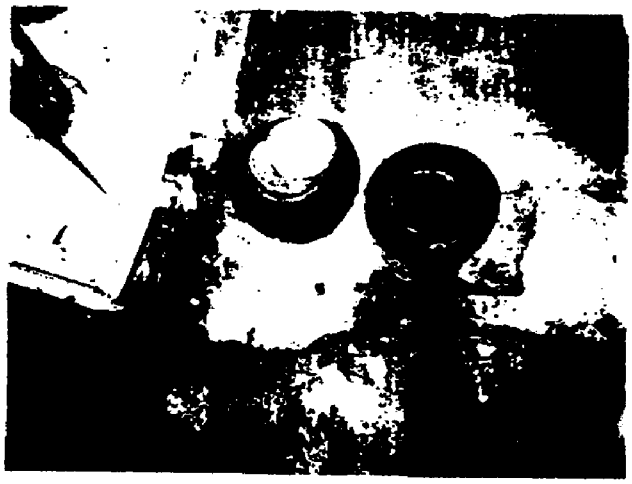
2) Check off which of the below is in each metal discharge point:

Line A		Line B		Line C	
Any detectable gas	____	Any detectable gas	____	Any detectable gas	____
Process	X	Process	____	Process	____
N.C. Cooling	X	N.C. Cooling	____	N.C. Cooling	____
Sanitary	X	Sanitary	____	Sanitary	____
Storm	-	Storm	____	Storm	____

3) Illustrate the processing areas, the eminating discharge sanitary line(s) carrying the metals contaminated wastewater, the location of the proposed sampling manhole, any upstream manhole, and the receiving municipal sewer. Label each metal process sanitary line A,B,C,.... Indicate landmarks. If sampling or flow measuring device already exists, indicate so. Attach any existing schematics of sanitary layout provided by the company.



845390006



845390007

4) Describe each manhole or sampling location in detail. (Label A.B,C,...)

LETTER A

MANHOLE:

(circular) surface Ø 4"

inside length _____ (parallel with pipe)

inside width _____

entire depth _____

junction manhole yes____ no____ # of in pipes _____

PIPES:

in pipe Ø 6" % full ~ 50

out pipe Ø 6" % full ~ 50

water depth in pipe ~ 3"

surcharged yes ____ no X

CHANNEL: N/A

water depth _____ benched yes ____ no____

water depth range _____

water velocity _____ turburlence yes _____ no _____
super critical velocity yes_____ no _____

roll in front of stake ____ roll behind stake ____

channel configuration straight _____ curved _____ sloped _____

instantaneous flow _____ drop _____

SAMPLING:

can be harnessed in MH _____ placed in MH _____

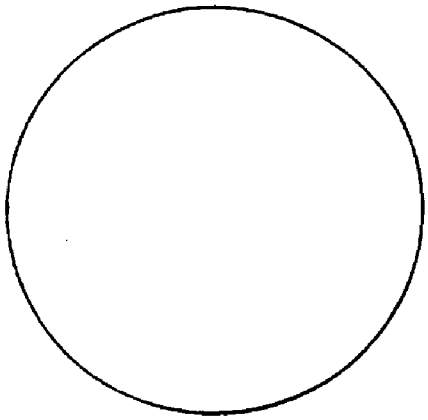
or placed outside MH X

(vandalism problem yes___ no X)

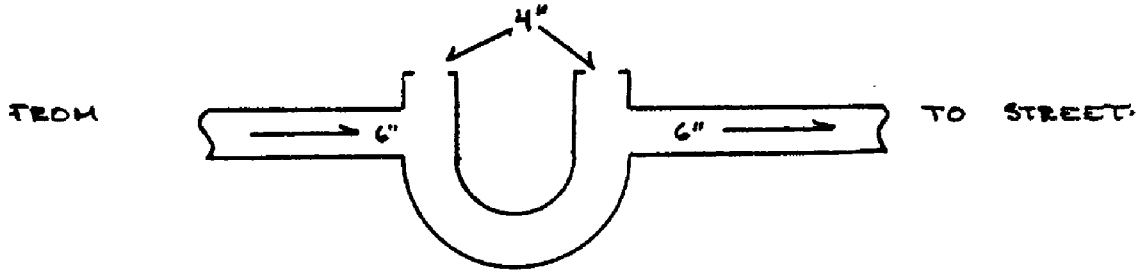
845390008

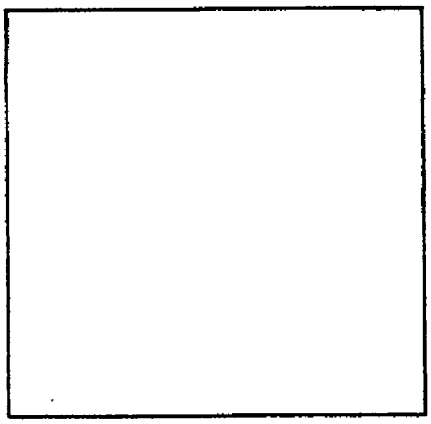
5) Sketch each manhole or sampling location in detail. Attach photograph (Label A,B,C,.....).

LETTER A.



CROSS SECTION.





845390009

TO BE COMPLETED IN OFFICE

6) Final recommendations for flow measurement & sampling.

	Sampling Line A	B	C
SAMPLING:			
Automatic	X		
Manual			
FLOW MEASUREMENT:			
Automatic			
Depth of flow in in-pipe, veloc/cur. meter, dipper method			
Depth of flow in in-pipe, veloc/dve, dipper method (shallow flows)			
Depth of flow in in-pipe, slope to upstream MH, rough, dipper method			
90° v-notch weir in out-pipe, dipper method			
Insert flume in out-pipe, dipper method			
Inflatable flume in in-pipe, dipper method (up to 8"Ø)			
Weir-box w/inflatable tube, dipper method			
Up & downstream depths of flow in mun. coll/syst., slope, rough, dipper method			
Manual			
Bucket & stop-watch (elevated sewers w/smaller flows)			
Trajectory method (elevated sewers) carpenters square			
Depth of flow in in-pipe, weir method			
Water meter readings	X		

845390010

TO BE COMPLETED IN OFFICE

7) Recommendations for sampling and flow measurement, including equipment and special devices required (A,B,C,...). Check if required and size.

	A	B	C
AUTOMATIC			
Samplers	X		
Harness			
Current Meter (velocity)			
Dye & Watch			
Dippers			
Rod & Transit			
Flumes			
Insert			
Inflatable			
4"			
6"			
8"			
10"			
12"			
15"			
Weirs v-notch (90°)			
4"			
6"			
8"			
10"			
12"			
15"			
Weir Box (inflatable)			
Packing			
Blocks			
Sand Bags			
Caulking			
MANUAL			
Bottles			
Bucket & watch			
Weirs (v-notch 90°)			
4"			
6"			
8"			
10"			
12"			
15"			
Carpenter's square with level			

NOTES:

845390011

TO BE COMPLETED IN OFFICE

8) Miscellaneous notes and recommendations (i.e., manhole construction recommended, must be monitored during dry weather, equipment suggestions, etc.)

845390012

Industrial Wastewater

Questionnaire

Part C

1) Do you pretreat any wastewater before discharging to the sanitary sewer?

_____

If the answer is "yes", briefly describe pretreatment method(s), what specific parameter pretreatment is utilized for, and how is residue generated by pretreatment disposed.

_____

_____

_____

_____

2) The following tests will be performed by PVSC at a later date on a series of 24 hour flow proportioned composite samples collected over a period of two (2) consecutive production days. Samples shall be collected from each individual waste sewer leaving your plant which is connected directly to the municipal PVSC sanitary sewer system.

Previous Measurements of Flow and Metals (if available)

Analysis	A	B	C
Daily Flow (Gal/Day)			
Chromium (mg/l)			
Cadmium (mg/l)			
Copper (mg/l)			
Lead (mg/l)			
Nickel (mg/l)			
Zinc (mg/l)			
Mercury (mg/l)			
Arsenic (mg/l)			
Vanadium (mg/l)			
Selenium (mg/l)			
Beryllium (mg/l)			

Return to:
PASSAIC VALLEY SEWERAGE COMMISSIONERS
[illegible]
Newark, N. J. 07102

Date: 3/29/72

Plant Ref. No. IRE0263

WASTE EFFLUENT SURVEY

(For Industries Served by the Passaic Valley Sewerage Commissioners)

ATTN JOHN KINDER

Plant Name: Tinco Inc

Address: 666 So 16TH ST. NEWARK NJ Zip 07103

Person and Title to whom any further inquiries should be directed: THOMAS SPAGNE-PRES

Phone No.: 324-3729

Number of Employees: Approx. 14

Number of Working Days Per Week: 5

Number of Shifts Per Day: 1

Area of Property: 44 X 100 ~~Acres~~, or ____ Sq. Ft.

Type of Industry and 4 digit U. S. Standard Industrial Classification No.: 3479

[redacted] Hot Tin Dipping

Finished Product(s): Hot Tin Dip

Average Production: 9,000 Monthly

Raw Materials Used:

Brief Description of Operations: Electronic parts are cleaned and then dipped into A 60% Tin 40% Lead to cover parts.

845390014

Water received in *Gallons* (Note: multiply cu. ft. x 7.48)

Purchased water in 1971 from: Tabs, Inc.

1st Quarter 4218

2nd Quarter 7052

3rd Quarter 7570

4th Quarter 8198

Total Purchased 1971: 27038

Well Water

1st Quarter

2nd Quarter

3rd Quarter

4th Quarter

Total well water received in 1971:

River Water

1st Quarter

2nd Quarter

3rd Quarter

4th Quarter

Total river water taken in in 1971:

TOTAL OF ALL WATER RECEIVED IN 1971:

Water Use in 1971:

Water to Product (include evaporated and lost water):

Water to Sanitary Sewer: 27038

Water to Storm Sewer, River or Ditch:

TOTAL WATER USE IN 1971:

Name of River, Stream, or Tributary, and location of storm sewer or ditch outlet to river, stream, or tributary:

845390015

ANSWER THE FOLLOWING QUESTIONS ONLY IF THE PLANT WASTE INCLUDES WASTE ATTRIBUTABLE TO INDUSTRIAL OPERATIONS

(Note: Analyses should be based on a 24-hour composite sample)

Characteristics of Plant Waste discharged to sanitary or combined sewer, after treatment if any. Indicate units of measure where applicable (e.g. Mg/l).

a) pH: 2.8 UNITS b) Turbidity: .....

c) Temperature: ..... d) Radioactive? Yes ..... No ✓

e) Solids Concentration:

1) Total Solids 386 mg/L Volatile ..... Mineral .....

2) Suspended Solids 14 mg/L Volatile ..... Mineral .....

f) Oil and Grease Concentration:

1) Floatable Oils .....

2) Emulsified Oils .....

g) Chlorides 144 mg/L

h) Chemical Oxygen Demand (C.O.D.): 12 mg/L

i) 5-day Bio-chemical Oxygen Demand (B.O.D.): 4 mg/L

j) Total organic carbon (T.O.C.): 2.0 mg/L

k) Metallic Ions—Name and concentration (Important—list each metal in waste, e.g., chromium hex. and triv. Antimony, Lead, Mercury, Copper, Vanadium, Nickel; give concentration and total daily discharge of each metal.)

.....

.....

l) Toxic Material—Name and concentration e.g., cyanide salts, etc.): .....

N A

m) Solvents—Name and concentration: .....

.....

n) Resins—Name and concentration (Lacquers, Varnishes, Synthetics): .....

.....

o) Date and time span of sample .....

Explain hours, method of discharge of waste to Sanitary Sewer and peak rate of flow, e.g., (continuing for 8 hours per day, 5 days per week at 100 gal./day rate) (batch twice a day for 20 minutes at 100 gal./min.) (Continuous 24 hours steady or with peaks at 2 P.M., peak rate 3 M.G.D.) etc.

.....

.....

.....

845390016

Characteristics of Plant Discharge to Storm Sewer, River, or Ditch, after treatment if any. Indicate units of measure where applicable (e.g., Mg/l).

a) pH: ..... b) Turbidity: .....

c) Temperature: ..... d) Radioactive? Yes ..... No .....

e) Solids Concentration:

1) Total Solids ..... Volatile ..... Mineral .....

2) Suspended Solids ..... Volatile ..... Mineral .....

f) Oil and Grease Concentration:

1) Floatable Oils .....

2) Emulsified Oils .....

g) Chlorides .....

h) Chemical Oxygen Demand (C.O.D.): .....

i) 5-day Bio-chemical Oxygen Demand (B.O.D.): .....

j) Total Organic Carbon (T.O.C.): .....

k) Metallic Ions—Name and concentration (Important—list each metal in waste, e.g., chromium hex. and triv. Antimony, Lead, Mercury, Copper, Vanadium, Nickel; give concentration and total daily discharge of each metal.):

.....

.....

l) Toxic Material—Name and concentration (e.g., cyanide salts, etc.): .....

.....

m) Solvents—Name and concentration: .....

.....

n) Resins—Name and concentration (Lacquers, Varnishes, Synthetics): .....

.....

o) Date and time span of sample: .....

Do you pretreat any waste before discharge? .....

If so, describe process and disposal of residue removed: .....

.....

.....

.....

Certification of Laboratory doing sampling and making analyses shall be given. Procedures shall be those shown in the 13th edition of Standard Methods for the Examination of Water and Wastewater, where applicable. If no procedure is applicable, the laboratory is to describe method and procedure used in analyses.

.....

Signature and title of person preparing report

845390017

ECOLOTROL ENVIRONMENTAL LABORATORY

TIMCO, INC.
9/5/72

Samples received 6/29/72

Analyses	Result
pH (units)	2.8
BOD (mg/l)	4
COD (mg/l)	12
TOC (mg/l)	2.0
Chloride (mg/l)	144
Oil and Grease (mg/l)	5.9
Total Solids (mg/l)	386
Total Suspended Solids (mg/l)	14
Total Volatile Suspended Solids (mg/l)	11
Total Dissolved Solids (mg/l)	372
Total Volatile Solids (mg/l)	300
Turbidity (Jtu)	25
Copper (mg/l)	0.42
Iron (mg/l)	25.8
Lead (mg/l)	4.0
Tin (mg/l)	< 2.5
Zinc (mg/l)	30.3

845390018

Return to:
PASSAIC VALLEY SEWERAGE COMMISSIONERS
600 [illegible]
Newark, N.J. 07105
(201) 344-1800

Date: Feb 10 1976

Plant Ref. No. .....

WASTE EFFLUENT SURVEY

(For Industries Served by the Passaic Valley Sewerage Commissioners)

Plant Name: Timco Inc.

Address: 666 So 16th St Newark N.J. Zip 07103

Person and Title to whom any further inquiries should be directed: Thomas Spacone President

Phone No.: 374-3729

Number of Employees: 8

Number of Working Days Per Week: 5

Number of Shifts Per Day: 1

Area of Property: ..... Acres, or 5,000 Sq. Ft.

Type of Industry and 4 digit U. S. Standard Industrial Classification No.: Hot Solder Dipping # 3479

Finished Product(s): Plating

Average Production: .....

Raw Materials Used: Tin-Lead Alloy - Muriatic Acid - Iron Chloride - Flux

Brief Description of Operations: Parts are placed in Baskets Acid dipped - water Quench - Flux Dip - Hot Solder Dip.

845390019

Water received in *Gallons* (Note: multiply cu. ft. x 7.48)

Purchased water in 19 75 from: City of Newark

1st Quarter 76,020 c.f x 7.48 = 568,480.00 Gals

2nd Quarter 44,300 c.f x " = 331,364.00 Gals

3rd Quarter 70,100 c.f x " = 524,348.00 Gals

4th Quarter 81,900 c.f x " = 612,612.00 Gals

Total Purchased 1975: 272,300 c.f x 7.48 = 2,036,804.00 Gals

Well Water

1st Quarter .....

2nd Quarter .....

3rd Quarter .....

4th Quarter .....

Total well water received in 19___: .....

River Water

1st Quarter .....

2nd Quarter .....

3rd Quarter .....

4th Quarter .....

Total river water taken in 19___: .....

TOTAL OF ALL WATER RECEIVED IN 19___: .....

Water Use in 19 75:

Water to Product (include evaporated and lost water): 10%

Water to Sanitary Sewer: 90%

Water to Storm Sewer, River or Ditch: .....

TOTAL WATER USE IN 1975: 2,036,804 Gallons

Name of River, Stream, or Tributary, and location of storm sewer or ditch outlet to river, stream, or tributary: .....

845390020

ANSWER THE FOLLOWING QUESTIONS ONLY IF THE PLANT WASTE INCLUDES WASTE ATTRIBUTABLE TO INDUSTRIAL OPERATIONS

(Note: Analyses should be based on a 24-hour composite sample)

Characteristics of Plant Waste discharged to sanitary or combined sewer, after treatment if any. Indicate units of measure where applicable (e.g. Mg/l).

a) pH: ..... b) Turbidity: .....

c) Temperature: ..... d) Radioactive? Yes ..... No .....

e) Solids Concentration:

1) Total Solids ..... Volatile ..... Mineral .....

2) Suspended Solids ..... Volatile ..... Mineral .....

f) Oil and Grease Concentration:

1) Floatable Oils .....

2) Emulsified Oils .....

g) Chlorides .....

h) Chemical Oxygen Demand (C.O.D.): .....

i) 5-day Bio-chemical Oxygen Demand (B.O.D.): .....

j) Total organic carbon (T.O.C.): .....

k) Metallic Ions—Name and concentration (Important—list each metal in waste, e.g., chromium hex. and triv. Antimony, Lead, Mercury, Copper, Vanadium, Nickel; give concentration and total daily discharge of each metal.)

.....

.....

l) Toxic Material—Name and concentration e.g., cyanide salts, etc.): .....

.....

m) Solvents—Name and concentration: .....

.....

n) Resins—Name and concentration (Lacquers, Varnishes, Synthetics): .....

.....

o) Date and time span of sample .....

Explain hours, method of discharge of waste to Sanitary Sewer and peak rate of flow, e.g., (continuing for 8 hours per day, 5 days per week at 100 gal./day rate) (batch twice a day for 20 minutes at 100 gal./min.) (Continuous 24 hours steady or with peaks at 2 P.M., peak rate 3 M.G.D.) etc.

.....

.....

.....

845390021

Characteristics of Plant Discharge to Storm Sewer, River, or Ditch, after treatment if any. Indicate units of measure where applicable (e.g., Mg/l).

a) pH: ..... b) Turbidity: .....

c) Temperature: ..... d) Radioactive? Yes ..... No .....

e) Solids Concentration:

1) Total Solids ..... Volatile ..... Mineral .....

2) Suspended Solids ..... Volatile ..... Mineral .....

f) Oil and Grease Concentration:

1) Floatable Oils .....

2) Emulsified Oils .....

g) Chlorides .....

h) Chemical Oxygen Demand (C.O.D.): .....

i) 5-day Bio-chemical Oxygen Demand (B.O.D.): .....

j) Total Organic Carbon (T.O.C.): .....

k) Metallic Ions—Name and concentration (Important—list each metal in waste, e.g., chromium hex. and triv. Antimony, Lead, Mercury, Copper, Vanadium, Nickel; give concentration and total daily discharge of each metal.):

.....

.....

l) Toxic Material—Name and concentration (e.g., cyanide salts, etc.): .....

.....

m) Solvents—Name and concentration: .....

.....

n) Resins—Name and concentration (Lacquers, Varnishes, Synthetics): .....

.....

o) Date and time span of sample: .....

Do you pretreat any waste before discharge? .....

If so, describe process and disposal of residue removed: .....

.....

.....

.....

Certification of Laboratory doing sampling and making analyses shall be given. Procedures shall be those shown in the 13th edition of Standard Methods for the Examination of Water and Wastewater, where applicable. If no procedure is applicable, the laboratory is to describe method and procedure used in analyses.

Signature and title of person preparing report

845390022

TIMCO INC.

SPECIALISTS IN . . . CENTRIFUGAL HOT TIN DIPPING . . . ALUMINUM SOLDER COATING . . . FUSED TINNING

666 SOUTH 16TH STREET NEWARK, NEW JERSEY 07103 374-3729-30-31

January 24, 1997

Mr. Pat Evangelista
290 Broadway , 19th Floor
New York, N.Y. 10007-1866

Enclosed please find Timco Inc. Response
to your request for information

845360001

Timco Inc.
666 South 16 Street
Newark,NJ 07103

1) Approximately 42 years
2) a) No
b) Yes Water permit 21402700
Enforced until 1994. Rescinded then because
we stopped water flow to sewer.
3) No
No
No
Yes Muriatic Acid
No
No
No
No
No
No
No
Yes Copper Explanation
No
Yes Lead
No
No
No
Yes Tin
No
No
4) a) Muriatic Acid ; Parts we receive from our customers are dipped into Muriatic Acid as a preperation for our plating.
Tin/Lead; Ingots are melted down for our service of Hot Solder Dip on our customers parts.
Copper; Copper parts are sometimes received from our customers for plating and then returned to tehm.
b) Muriatic Acid; Prep for plating
Copper parts plated and returned.
Tin/Lead Tin/ Lead; Plating process
i) Muriatic Acid; HCL
Tin/Lead ; Tin/Lead Alloy
Copper
ii) Unknown
iii) No
5) Previously, until three years ago, Muriatic Acid/ Rinse water, was discharged by permit to the sewer. Since that time, the Muriatic Acid/Rinse water

845360002

solution is allowed to evaporate. No liquid rinse water or waste is generated.

Tin/Lead is cleaned in shop and re-used in our plating process. Skimmings off top are saved in pails or drums and returned to outfit purchased from.

a) Mario Iuliano Deceased approx. 1992.
Diane Santora From approx. 1992 to present.
Thomas Panella Deceased approx. 1985

b) No

c) Stored in pails or drums on site in building.

i) No drums stored outside. All stored inside.

ii) N/A

d) We evaporate Muriatic Acid/ rinse water solution. No waste treatment occurs.

6) a)

i) Yes Approx. 1955 to 1994.

ii) Yes. Sodium Bicarbonate was used to neutrilize Muriatic Acid.

iii) The process waste water discharge was continuous until 1994. From 1994 to present, Muriatic Acid/Rinse water is evaporated and not discharged to sewer.

iv) Testing before 1994. Copy attached.

b)

i) Yes from 1955 to 1994.

ii) See 6 B i above

c) i No

ii) N/A

iii) N/A

iv) N/A

d) Copy attached.

7) Unknown

b) Unknown

8) None

a) None

9) a) No

i) No

ii) No

b) None

10) We had a violation by Passaic Valley Sewerage Comm. approx. 5 years ago, for being over our limit allowed. Do not have any copies in our possession.

845360003

Timco Inc.
666 South 16 Street
Newark,NJ 07103

11) See attached paper work.

12) a) No
b) N/A

13) a) Yes ; Owned. Unknown who purchased from.
b) N/A
c) Not known who owned before 1955. Since 1955 to present , Timco Inc.

14)
a) Timco Inc.
b) Theresa Spagone
3 Azalea Drive
Wallington N J 07057
c) New Jersey Information. Explanation* Husband deceased in 1967, no longer have this information.
d) See Attached
e) No
f) None
g) None
h) 1956 New Jersey
i) None

15) Diane Santora Manager from 1994 to present
15 Washington Ave
So Amboy, N.J. 908 727 6938

845360004

CERTIFICATION OF ANSWERS TO REQUEST FOR INFORMATION

State of NJ :

County of Bergen :

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document (response to EPA Request for Information) and all documents submitted herewith, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete, and that all documents submitted herewith are complete and authentic unless otherwise indicated. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I am also aware that my company is under a continuing obligation to supplement its response to EPA's Request for Information if any additional information relevant to the matters addressed in EPA's Request for Information or the company's response thereto should become known or available to the company.

Theresa Spagone
NAME (print or type)

President, Timco Inc.
TITLE (print or type)

Theresa Spagone
SIGNATURE

Sworn to before me this 22nd day of January, 1997

Joan Miller
Notary Public

JOAN MILLER
NOTARY PUBLIC OF NEW JERSEY
Commission Expires Mar 27, 2000

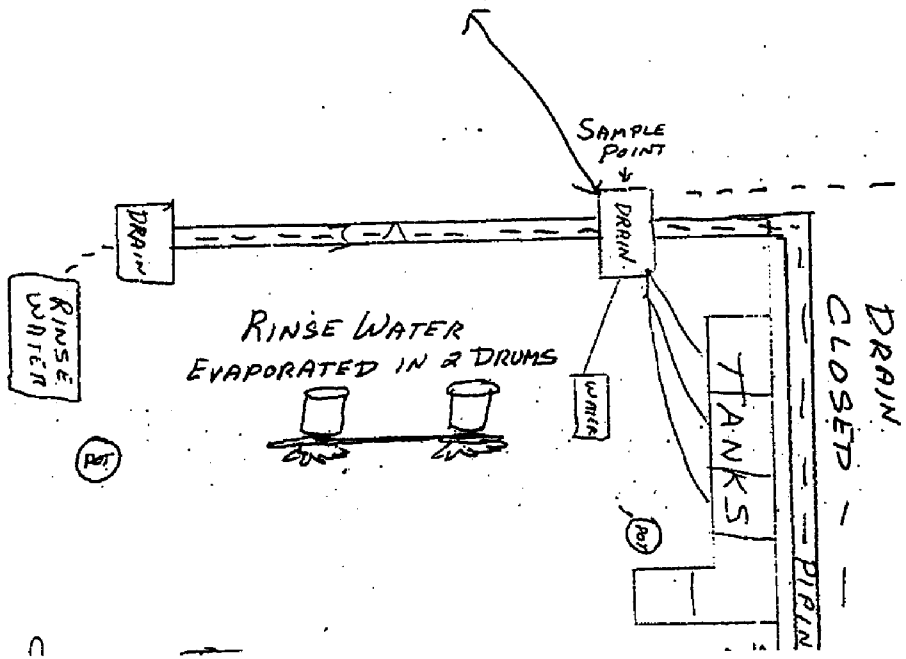
845360005

6) d)

TIMCO INC.
666 SOUTH 16th STREET
NEWARK, NJ 07103

6) d)

MAIN DRAIN IS SEALED WITH CONCRETE



84536006

6) IV

PRETREATMENT MONITORING REPORT

TIMCO INC.
666 SOUTH 16th STREET
NEWARK, NJ 07103

Name Timco Inc

Mailing Address 666 South 16th St. Newark,N. J. 07103

Facility Location Same

Category & Subpart 40CFR 413.54 Sub Part E Outlet# 214027-00-43100-0201

Contact Offical Diane Santora Telephone# 374 3729

Monitoring Period					
1	1	94	1	31	94
Mo.	Day	Yr.	Mo.	Day	Yr.
Start			End		

Production rate (if applicable)

For Reporting Period

	AVG	MAX
Regulated flow-gal/day		
Total Flow-gal/day		

Method used Water meter reading, divided by work days

Parameter		Mass Limit or Concentration Average	Maximum	Units	No. of Samples	Sample Comp./G
Lead	Sample measurement	0.03	0.03	mg/l	1	Comp
	Permit requirement	0.4	0.6	mg/l	1	Comp
	Sample measurement			mg/l	1	Grab
	Permit requirement			mg/l	1	Grab
Cadmium	Sample measurement	<0.01	<0.01	mg/l	1	Comp.
	Permit requirement	0.7	1.2	mg/l	1	Comp.
AMENABLE Cyanide	Sample measurement	<0.05	<0.05	mg/l	1	Grab
	Permit requirement	2.7	5.0	mg/l	1	Grab
	Sample measurement					
	Permit requirement					
	Sample measurement					
	Permit requirement					
	Sample measurement					
	Permit requirement					
	Sample measurement					
	Permit requirement					
	Sample measurement					
	Permit requirement					

PVSC Form MR-1 Rev. 4 6/87 P1

Figures were obtained by taking 1 month water usage 239 by water meter, then divided by work days 1-15-94 159. Took 5% for evaporation, 5% x 159 = 7. 159 minus 7 = 152 This is total flow. Then 5 employees x 20 gal. for usage = 100 152 minus 100 = 52 which is regulated flow.

Diane Santora 2/17/94

845360007

PRETREATMENT MONITORING REPORT

Certification of Non-use if applicable (use additional sheets)

Based on my inquiry of the person directly responsible for managing compliance with the pretreatment limitation for pretreatment standard) for total toxic organics (TTO) I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters nas occured since filing of the last discharge monitoring repo I further certify that this facility is implementing the solvent management plan submitted the permitting (or control) authority.

Compliance or non compliance statement with compliance schedule (use additional sheets if necessary) for every parameter used.

As such by analysis, we are in full compliance in all parameters with 415.54 Sub part E.

Explain Method for preserving samples

The composite was adjusted to a PH below 1.0 with Nitric Acid. The sample was refridgerated at plant and in transit to laboratory. TTO was collected in a 40ML vile with teflon cap and transported at 4 centigrade. Sample was grab. The cyanide sample was preserved with Sodium Hydroxide to PH greater than 12.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaulate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Diane Santora

Signature of Principal Executive or Authorized Agent

Diane Santora

Diane Santora / Manager

Type Name and Title

2/17/94

Date

PVSC Form MR-1 Rev. 5 3/91 P2

845360008

6) iv

USER CHARGE SELF MONITORING REPORT

TIMCO INC.
666 SOUTH 16th STREET
NEWARK, NJ 07103

NAME TIMCO INC.

ADDRESS 666 SOUTH 16TH STREET NEWARK, NJ 07103

FACILITY LOCATION SAME

OUTLET DESIGNATION (17 DIGITS) 21402700-43100-0201

MONITORING PERIOD					
1	1	94	1	31	94
MO.	DAY	YR	MO.	DAY	YR
START			END		

VOL DISCHARGED THIS PERIOD
2,393 GALS
CU. FT. X 7.48 = GALLONS
097403 City water meter
EFFLUENT METER READING LAST DAY THIS PERIOD 097403

DATE	BOD 0310	TSS 0530			DATE	BOD 0310	TSS 0530	
1/28/94	10	3						

SIGNATURE OF PRINICPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
Diane Santora	Diane Santora Manager	201 374 3729
		DATE 2/17/94

PVSC FORM MR-2 REV.2. 1/86

845360009

DOONER & SMITH CHEMICAL CO.

CHEMICALS, ACIDS, SOLVENTS
OFFICE: 2410-8 SYLVAN DR., POINT PLEASANT, N.J. 08742
PHONE (908) 295-8900 FAX (908) 295-8686

TIMCO INC.
666 SOUTH 16th STREET
NEWARK, NJ 07103

DATE 08/28/96

ORDER NO.

REL. NO.

INVOICE NO.

RECEIPT NO. S26161

TERMS: C.O.D.

SHIP TO:

SOLD TO

TIMCO INC.
666 SOUTH 16TH STREET
NEWARK, N.J. 07103

1	385 # DRUM	ZINC CHLORIDE SOLUTION (HIGH SPEED TINNING FLUX)			
385 LB	@ 57.35/HD	DEPOSIT $ 0	EACH	$	220.80
1	500 # DRUM	HYDROCHLORIC ACID, SOLUTION (20 DEGREE)			
500 LB	@ 13.80/HD	DEPOSIT $ 40	EACH	$	69.00

8/28/96

TAX ID 221-596-412

SUB-TOTAL=	$	289.80
SALES TAX=	$	0.00
DEPOSITS =	$	40.00
TOTAL DUE=	$	329.80

Deposit on returnable containers does not convey ownership. Deposit will be refundable upon receipt of containers in good condition, provided they are returned within ninety days
Seller warrants that all goods covered by this invoice were produced in compliance with the requirements of the Fair Labor Standards Act of 1938, as amended.
PRODUCTS ARE SOLD ON THE BASIS OF NET WEIGHTS WHEN PACKED.

845360010

VE, subject to the classifications and tariffs in effect on the date of the issue of this Shipping Order,

TIMCO INC.
646 SOUTH 16th STREET
NEWARK, NJ 07103

EASBEY, N.J. FROM: RFE Industries, Inc.

RFE ORDER NO.
015330

† The libre boxes used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Uniform Freight Classification.

† Shipper's imprint in lieu of stamp, not a part of Bill of Lading approved by the Interstate Commerce Commission

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges Advanced
$ _____

CONSIGNED TO:

TIMCO
646 SOUTH 16TH STREET

NEWARK NJ 07103-

CUSTOMER ORDER NO.

DUANE

If charges are to be prepaid write or stamp To Be Prepaid

PREPAID

QUANTITY SHIPPED	U/M	DESCRIPTION	GROSS WEIGHT	TARE	NET
1000	LB	RFE ELECTRALOY 60/40 BAR SOLD 1 SKID, 20 BOXES LOT# 3850 3875	1050#	10.32 1/3/97	
		SHIPPING ORDER	123.96		

INDUSTRIES, INC., Shipper

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

ment Post Office Address of Shipper: 19 Crows Mill Road, Keasbey, NJ 08832 • (908) 738-5200

SHIPPING ORDER

845360011

14)
a

845360012

TIMCO INC.
666 SOUTH 16th STREET
NEWARK, NJ 07103

CERTIFICATE OF GOOD STANDING

I, THERESA SPAGONE, Secretary of TIMCO, INC., do hereby certify that the above is the legal corporate name of the corporation which owns premises at 666 South 16th St., Newark, New Jersey, that it is a corporation of the State of New Jersey, that its principal office is at 666-So. 16TH ST. NEWARK, N.J. that the said corporation is not in the hands of a receiver; that no application for receivership for said corporation is pending; that said corporation has not changed its name; that no petition in bankruptcy has been filed by or against it, neither has it committed any act of bankruptcy, that its charter has not expired, neither has it been forfeited for non-payment of taxes or otherwise, and that said corporation has not been dissolved, and is solvent.

IN WITNESS WHEREOF, I have hereunto signed my name as Secretary and affixed the sael of said corporation this day of May, 1964.

Theresa Spagone
Secretary