PASSAIC VALLEY SEMERASE CONHISTION - HEAVY METAL SOUNCE DETERMINATION SUB-AREA 2

1000 197 87. HARRIBON 1000 197 87. HARRIBON 1000 197 87. HARRIBON 1000 197 87. HARRIBON 1000 0.0940 10040 0.0940 10040 0.0952 10040 0.0951 1004 0.0951 1004 0.0952 10040 0.0951 10040 0.0052 10040 0.0052 10040 0.0052 10040 0.0052 10040 0.0052 10040 0.0052 10040 0.0052 10040 0.0052 10040 0.0052 10040 0.0052 10040 0.006	(1007.0)		MICKEL	TOTAL		1
### STATE CO. 201 HIDDLESEX ST. HARRISON 640 EAGLE AFFILIATES INC. 505 HANDR AVE. HARRISON 650 HARVEL PHOTO CO. INC. 111 SOUTH 4TH ST. HARRISON 660 C. S. DEBORNE S CO. 125 JERSEY ST. HARRISON 670 OTIS ELEVATOR CO. 1000 1ST ST. HARRISON 680 WORTHINGTON PURP CORP. 401 MORTHINGTON AVE. HARRISON 680 SREW CHEMICAL 1104 HARRISON AVE. KEARNY 690 0.004 0.005 0.001 6000 0.001			LDS/DAY	ZINC LBS/BAY (MB/L)	TOTAL TOTAL ARSENIC MERCUR LBS/BAY LBS/DAY (MB/L) (MB/L)	ty ly
### 11 Lates Inc. #### 12 Jacks Inc. ##### 12 Jacks Inc. #### 13 Jacks Inc. #### 13 Jacks Inc. #### 13 Jacks Inc. #### 12 Jacks Inc. #### 13 Jacks Inc. #### 13 Jacks Inc. #### 14 Jacks Inc. #### 15 Jacks Inc. ##### 15 Jacks Inc. ##### 15 Jacks Inc. ##### 15 Jacks Inc. ###################################	7102	12 0.033 6) (0.179	(< 0.001 (0.003)	0.05e z		-
##WEL PROTO CO. INC. 111 SOUTH 4TH ST. HARRISON 460 C. S. DEBORNE S CO. 125 JERSEY ST. HARRISON 670 OTIS ELEVATOR CO. 1000 1ST ST. HARRISON 480 MORTHINSTON PUNP CORP. 401 MORTHINSTON AVE. HARRISON 780 SREW CHEMICAL 1104 MARRISON AVE. KEARNY 0.0440 0.004 0.004 0.023 0.044 0.023 0.044 0.023 0.044 0.0440 0.004 0.005 0.0440 0.004 0.005		i 0.134 5) (0.081)		0.079 <	0.001) (0.044	4)
460 C. S. DEBORNE S CO. 125 JERSEY ST. HARRISON 670 OTIS ELEVATOR CO. 1000 1ST ST. HARRISON 680 MORTHINSTON PUNP CORP. 401 MORTHINSTON AVE. HARRISON 780 PREM CHEMICAL 1104 MARRISON AVE. KEARNY 0.0040	A 40-		0.093	0.132 <	0.001) (0.000))
670 OTIS ELEVATOR CO. 1000 197 ST. HARRISON 680 MORTHINSTON PURP CORP. 401 MORTHINSTON AVE. MARRISON 690 DREW CHENICAL 1104 MARRISON AVE. KEARNY 600001 0.000 0.001 0.072) (0.078) 6000 0.004 0.418 0.2470 0.052 0.044 (0.025) (0.031) 6000 0.004 0.002 (0.040) 0.004 0.002	0.004 (0.178)	0.000	¢+003	0.015	0.001) (0.003))
#UNCENTRATION PUMP CORP. (0.008) (0.522) 401 MORTHINSTON AVE. HARRISON (0.008) (0.522) 0.2490 (0.002) (0.004 1104 MARRISON AVE. KEARNY (0.0440 (0.004 (0.002)) (0.016) (0.018)	0.00 9 (11.100)		0.004	0.004	0.001) (0.002)	
THEN CHENICAL (0.025) (0.044 (0.025) (0.031) (0.044) (0.0440 (0.044)	(0.15 9 (0.19 9)	(0.113	A 430	5,268	0.001) (0.000)	D
(0.016) (0.440)	0.461 0,222)	0.207 (0.138) (0.007	0.326 <	0.002 0.004)	
	0.090 0.245) (0.201	0.021	6.778 < 0	0.001) (0.037)	
TOTAL INDUSTRIAL HEAVY METALS LOCATED-PHASE II 0.117					0.000)	

PASSAIC VALLEY SEWERAGE COMMISSIONERS

	Date: 4/28/78	Interviewed b	y: Scott & Standfast
-	PVSC Industry # HR-660	Industrial Wastewater Questionnaire	"attach business card"
		Part A	
1)	Name C.S. OSI	BORNE & CO.	
2)	Address 125 Jersey	Street	Town !
		Street	Harrison
3)	Responsible Person to	<i>-</i>	Municipality
	George Alima	nom further inquiries shou	ıld be directed:
	George Akunowicz Name	Plant Manager	100.000
		Title	483-3232
4)	Type of Industry Mechan:	tala m	Telephone
5)	Primary S.I.C. number, 1 (4 Digit Code from 1976	f available <u>3546</u> standard industrial class:	lfication manual)
6)	ATTRICIPIE RAW Materials (s) used <u>Steel</u>	
7)	Principle Product(s) prod	luced Mechanics Tools	
8)	Hours per day manufactur	ing operations are conduc	ted g
	vaya per week manufacturi	ng operations are and	
••	Process Discharge Crequency (circle one) Con	ntinuous (Intermittant # of	Batches/Day 1 mes of Day 8:00 - 8:30 A.M.
9)	Number of employees at th	is location 90	mes of Day 8:00 - 8:30 A.M.
10)	Indicate plant water cons	umption figures in gallons	or cubic feet during
	we wor recent calender	luarter. If you obtain wa	ter from
	and do not mete	er your consumption from t	his source days
	one well p	rump(s) in gallons per min	ute and the approxi
	mate daily running time(s)	in hours per day.	and ene approxi-

1

Questionnaire

Part A

Continued

City or Public Supply	Private Well Supply
718,080 Gallons/Quarter	Gallons/Quarter
9.610 Cubic Feet/Quarter	Cubic Feet/Quarter
Harrison Name of City or Public Supply	Well Pump(s) Gal/Min.
'76 Total 793,580 To Storm (N.C.C.) 1,321,4400, Boiler Sanitary 436,740 (EMPL) 15,200 Proc.	Pump Running time(s) Hrs/Day 15,000
of Water <u>Used</u> in Actua	1 Process
7 of Water Discharged Fr	om Process
% of Water Discharged as	Non-Contact Cooling Water
25% of Water Discharged Fro	om Sanitary Convenience

Indicate Location of Water Meter: Ist Floor Under Deck.

Questionnaire

Part B

1) Number of	metal contri	buting discharge points	to munic	ingl come 1
2) Check off	which of the	below is in each metal	dischare	a point
Line A		Line B		
Any detectable Process	gas	Any detectable gas		Line C Any detectable gas
N.C. Cooling	-	Process		Process
Sanitary		N.C. Cooling		N.C. Cooling
Storm		Sanitary Storm		Sanitary
		Storm		Storm

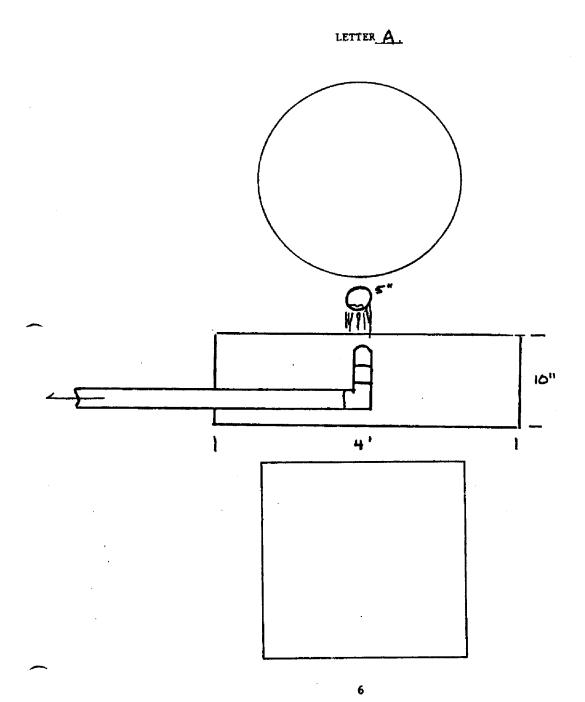
3) Illustrate the processing areas, the eminating discharge sanitary line(s) carrying the metals contaminated wastewater, the location of the proposed sampling manhole, any upstream manhole, and the receiving municipal sewer. Label each metal process sanitary line A,B,C,.... Indicate landmarks. If sampling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

See Schematic.



4) Describe each manho	ole or sample	ing location in detail.	(Label A.B.C.
MANHOLE:	LETT	ER A	
(circular) surface Ø		•	
inside length	15"	(parallel with pipe)	٠.
inside width	4'	, at a second with pipe,	
entire depth	10"		
junction manhole yes_	по	# of in pipes 1	-
PIPES:			
in pipe Ø	% full _ 0	at this time	
out pipe Ø	% full		
water depth in pipe			
surcharged yes no CHANNEL:			
water depth	benched	l yes no	
water depth range			
water velocity		turburlence vee	
roll in front of stake channel configuration strainstantaneous flow	ad ab a	ical velocity /es nd stake	_ sloped
SAMPLING:			drop
can be harnessed in MH	place	ed in MH	
or placed outside MH X			
(vandalism problem yes			

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



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TO BE COMPLETED IN OFFICE

6) Final recommendations for flow measurement & sampling.

	Sam	Sampling Line		
	¥	<u>B</u>	<u>c</u>	
SAMPLING:				
Automatic				
Manual	<u>x</u>			
FLOW MEASUREMENT:				
Automatic	-			
Depth of flow in in-pipe, veloc/cur. meter, dippe method	r			
Depth of flow in in-pipe, veloc/dye, dipper meth (shallow flows)	od		 ,	
Depth of flow in in-pipe, slope to upstream MH, dipper method	rough,			
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"0)				
Weir-box w/inflatable tube, dipper method				
Jp & downstream depths of flow in mun. coll/syst. slope, rough, dipper method	-			
Manual				
Bucket & stop-watch (elevated sewers w/smaller fl	.ows)_X_			
rajectory method (elevated sewers) carpenters sq	uare			
epth of flow in in-pipe, weir method				
ater meter readings				

7

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.

AUTOMATIC	. <u>A</u>	<u>B</u>	<u>c</u> .
Samplers			
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	. X		
Bucket & watch	- X		
Weirs (v-notch 90°)			
4"			
5 ''			
3"			
10"			
15"		-	
Carpenter's square with level			
IUABG.			

Questionnaire

Part C

1) Do vou pretre	St. Amus acantana and a second
Jod precte	at any wastewater before discharging to the sanitary sewer? YES
	is "yes", briefly describe pretreatment method(s), what meter pretreatment is utilized for, and how is residue
	pretreatment disposed.
	PH CONTROL
	
	tests will be performed by PVSC at a later date on a series we proportioned composite samples collected over a period
of two (2) con	secutive production days. Samples shall be collected from
each individua	1 waste saver legitle as a samples shall be collected from
	l waste sewer leaving your plant which is connected directly al PVSC sanitary sewer system.
	11 1750 Saultary Sower System.
Previou	s Measurements of Flow and Metals (if available)
Analysis	A & B
Daily Flow (Gal/Day Chromium (mg/1) Cadmium (mg/1) Copper (mg/1) Lead (mg/1) Vickel (mg/1)	. <u>05-30</u> 1 -4.5 . <u>05 -</u> .95
inc (mg/l) fercury (mg/l)	4.0 - 75
Arsenic (mg/l) /anadium (mg/l)	
Selenium (mg/l) Seryllium (mg/l)	

TO BE COMPLETED IN OFFICE

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

Flow consists of 15-20 gal. dumped once a day from tumbling machines.

Questionnaire

Part C

1)	Do you pretreat	any wastewater h	before discharging to the sanitary sewer?					
	specific paramet	er pretreatment	describe pretreatment method(s), what is utilized for, and how is residue					
	generated by pre	treatment dispos	ed.					
2)	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 <u>individual</u> w to the municipal		ing your plant which is connected directly ewer system.					
		leasurements of F	low and Metals (if available)					
Anal	ysis	<u>A</u> <u>B</u>	_ <u>c</u>					
Chron Cadma Coppe Lead Nicke	y Flow (Gal/Day) mium (mg/1) ium (mg/1) er (mg/1) (mg/1) el (mg/1)							
Mercu Arser Vanad Selen	(mg/1) ury (mg/1) nic (mg/1) lium (mg/1) nium (mg/1) nium (mg/1)							

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