

4.0 WASTE TYPES AND QUANTITIES

Electroplating with chromium of locomotive crankshafts and cylinder linings is the main procedure of operation at the site. Chrome particles are electronically attracted and bound to the surface of the item being plated. This process involves the use of chromic acid, which is currently kept in the storage warehouse located on the south side of the plant. Water is used in this operation mainly as a rinsing solution. During this process, the water becomes contaminated with electroplating materials. Also, water was used to rinse the scrubbers and strip tank blower fan port, which handled fumes pulled off the chromic acid baths.^{2,4,5}

No estimations were made concerning the amounts of chromic wastes that were allowed to flow into the surrounding environment; however, roughly 60,000 cubic feet of contaminated soils have been encapsulated. Currently, the plant generates 2,500 gallons of chromic acid waste each year. This is then removed for disposal by either Chem Clear, of Baltimore, or Mill Services, of Pittsburgh.² Investigation of hazardous waste manifests revealed waste types as soda ash and chrome (3.1 percent solids).⁴

In 1970 it was Mt Vernon Illinois where did they change and where did it go in between who can confirm

WATER AND WASTEWATER REPORT

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SAMPLE NUMBER 0220244 NAME - BARRETT BORRY

LAB NO- 79015

ESTAB - P.N.C.

CASE -

FOOTER DRAIN

FACILITY - PRECISION NATIONAL CORP

WQN STATION NO- 000

ID CODE - NONE

TIME - 15.00 11/29/79 DATE TYPE - 01 SOURCE - 01

LAT -

LONG - 0

STDANL - 500

RECEIVED - 12/12/79

REPORT REVIEWED BY-



DATE - 12/19/79

LABORATORY ANALYSES :

STORET	DESCRIPTION	RESULT	VERIFY	BY	DATE	VERIFY
01034	CR TOT UG/L	93690.0000	UG/L G	BLF	12/18/79	
01032	CR HEX,UG/L	90000.0000	UG/L G	DHN	12/12/79	

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WATER AND WASTEWATER REPORT

SAMPLE NUMBER - 8224392

COLLECTOR - L. INSALACO WQM2 COLLECTOR NO - 0225538

ESTAB - ACKERLY CK

CASE NAME - ACKERLY CK

FACILITY -

ID CODE - NONE WQM STATION NUMBER - 000

SAMPLING DATE - 8/26/82 TIME - 13:15 LAT - 00:00:00.0 LONG - 00:00:00.0

TYPE - 01 SOURCE - 04 STD ANAL - 000 RECEIVED ON - 8/27/82

SEAL NO(S) 00362 *Jan*

REPORT REVIEWED BY *[Signature]* DATE - 10/12/82

STORET	DESCRIPTION	RESULT	CONC	VERIFY BY	VERIFY DATE	COMM CODE
LABORATORY ANALYSIS :						
01032	CR HEX,UG/L	< 10.0000	UG/L	G DHN	10/12/82	
01034	CR TOT UG/L	22800.0000	UG/L	G LBS	9/07/82	

SAMPLE COMMENTS

NO SAMPLE COMMENTS

WB6700:509 CANDE 32.400; YOU ARE LABAP04(88)

16-A

Table 1 - Sediment/Soil Sampling IDW
Analytical Results
09/11/00

Precision National Plating Services - Clarks Summit, PA

Analyte	PA Statewide Health Standard	Sediment BKT01-091100	Sediment BKT02-091100	Soil Cuttings GP01-091100
Aluminum	190,000	8,300	8,820	9,150
Antimony	88	2.0 UJ	2.0 UJ	2.3 UJ
Arsenic	12	6.2	6.7	14.6
Barium	15,000	107	118	69.6 J
Beryllium	4.2	0.59 J	0.51 J	0.45 J
Cadmium	110	1.1	1.1 U	1.3 U
Calcium	---	1,500 J	1,790	10,900
Chromium	190,000	89.7 J	79.8 J	15.0 J
Cobalt	13,000	8.6 J	8.9 J	12.5 J
Copper	190,000	27.8	29.6	25.0
Hexavalent Chromium	1,100	NA	NA	NA
Iron	66,000	15,300	17,600	22,600
Lead	500	37.6	48.5	16.5
Magnesium	---	2,460	2,590	4,440
Manganese	10,000	504 J	588 J	814 J
Mercury	19	0.18 U	0.17 U	0.10 U
Nickel	4,400	15.5	16.1	21.3
Potassium	---	980 J	1,040 J	1,830 J
Selenium	1,100	1.3 U	1.3 U	0.75 U
Silver	1,100	2.3 J	2.1 J	2.1 J
Sodium	---	239 J	155 J	458 J
Thallium	18	1.1 J	2.7 J	0.83 U
Vanadium	13	11.0 J	12.1 J	10.8 J
Zinc	66,000	119	142	58.1

Notes: All concentrations in mg/kg (ppm) and reported on a dry weight basis.

NA = Not analyzed.

U = The analyte was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte sample.

UJ = The analyte was not detected above the reported sample quantitation or detection limit. However, the reported quantitation or detection limit is approximate and may or may not represent the actual limit of quantitation or detection necessary to accurately and precisely measure the analyte in the sample.

BUREAU OF WATER QUALITY MANAGEMENT
Wilkes-Barre Regional Office
90 East Union Street - 2nd Floor
Wilkes-Barre, Pennsylvania 18701

August 10, 1981

Mr. Herman Altier
Ackerly Fairgrounds
R.D. #1
Clarks Summit, PA 18411

Dear Mr. Altier:

RE: Sampling Results
Ackerly Fairgrounds
Glenburn Township
Lackawanna County

The results of chemical sampling from the well and springs on Ackerly Fairgrounds are enclosed as you requested. As you know, we have been sampling these locations since March 1978 for signs of chrome contamination. To date, we have determined that the spring near the old clubhouse and the ballfield are contaminated while the well and spring near Ackerly Road are not.

Samples were analyzed for total chrome (Cr_T) and hexavalent chrome (Cr^{+6}) and are thus indicated on the attached listing of results. The U.S. Public Health Service defines the safe allowable limit for chrome at 0.05 parts per million (ppm).

If you have any questions concerning the sample results, feel free to contact me at 826-2553.

Very truly yours,

LEONARD C. INSALACO
Water Quality Specialist

LCI:cu

cc: Regional File ✓
Central File

CPT-2036

	WELL			ACKERLY ROAD			CLUBHOUSE			BALLFIELD		
	Cr _t	ppm	Cr ⁺⁶	Cr _t	ppm	Cr ⁺⁶	Cr _t	ppm	Cr ⁺⁶	Cr _t	ppm	Cr ⁺⁶
.9-78	<.01		<.01				5.45		2.0			
5-23-78	<.01		<.01	0.01		<.01	8.25		6.0			
6-26-78	<.01		<.01	<.01		<.01	11.6		-	17.25		6.0
7-19-78	0.02		<.01	<.01		<.01	10.08		8.0	4.15		1.6
8-28-78	<.01		<.01		Dry				Dry	28.5		<.01
9-19-78	<.01		<.01		Dry				Dry	0.5		<.01
10-24-78	0.03		<.01		Dry				Dry	0.71		<.01
11-14-78	<.01		<.01		Dry		1.57		<.01	4.2		<.01
12-20-78	<.01		<.01		Dry		13.0		10.0	3.2		0.1
1-22-79	<.01		<.01	<.01		<.01	9.55		8.0	5.2		1.5
2-27-79	<.01		<.01		Dry		7.75		7.0	1.73		1.0
3-26-79	<.01		<.01	<.01		<.01	9.5		8.0	1.59		<.01
4-23-79	<.01		<.01	<.01		<.01	9.2		6.0	3.01		0.7
5-31-79	<.01		<.01	<.01		<.01	5.1		4.15	1.15		<.01
6-25-79	<.01		<.01	<.01		<.01	8.4		<.01	2.81		0.05
7-26-79	<.01		<.01		Dry		1.26		0.166	5.45		<.01
8-30-79	<.01		<.01		Dry				Dry	0.01		<.01
9-26-79	<.01		<.01		Dry		1.47		0.196	0.05		<.01
11-29-79	0.03		<.01		Dry		8.93		7.6	.92		<.01
12-27-79	0.02		<.01		Dry		13.075		13.0	3.11		1.6
2-20-80	0.02		<.01		Dry					8.8		-
3-27-80	0.01		<.01	0.01		<.01	7.34		6.3	2.55		-
7-21-80	0.02		<.01		Dry		8.11		2.5	212.67		-
1-13-81	0.02		<.01		Dry				Frozen	11.04		<.01
3-18-81	0.01		<.01	0.02		<.01	21.70		13.25	2.93		1.1
5-12-81	<.01		<.01	<.01		<.01	11.09		7.2	0.66		<.01

< Indicates Less Than