SD 80/07

1

*OK to inspect per Jim Mayka 7/16/85

PCB gen TSD

7/16/85

SITE DESCRIPTION/EXECUTIVE SUMMARY

Site Name and Location

Johnson Control-Globe Union
951 Aiken Road
Owosso, MI 48867

County: Shiawassee
Michigan Code Number: 78-07N-03E-20CC
DNR District: Lansing
EPA ID Number: MID058816927

US EPA RECORDS CENTER REGION 5
487691

SAS Score/Screen No.: 07

Globe Union manufactures auto batteries; wastewater generated from floor and battery washing, air scrubbing water, and acid spillage are drained to a lagoon to a treatment tank where NaOH is added for pH adjustment. From there it is allowed to settle twice and is finally discharged to the Shiawassee River. Sediments in the Shiawassee River and in the drain from Globe Union to the Shiawassee River show high levels of PCB's and heavy metals, particularly lead. Native fish tissue samples near the Globe Union discharge drain contained PCB in levels below the FDA action level of 5 mg/l, whole clam tissue samples showed no detectable levels of organics but zinc levels ranged from 30 to 60 ppm. Groundwater flow is north-northwest at the site, toward the Owosso municipal well #1. Groundwater sampling showed heavy metals and phenols above background levels in 1984. Hazardous wastes are briefly stored on-site, the company is also a licensed hazardous waste hauler.

Recommendations For EPA

A medium priority for inspection is recommended. Monitoring well, effluent, river bed sediment, and nektonic/benthic organism sampling data is available in the file. Groundwater flow characteristics are known. Additional sampling of sediments and a biological survey may have merit to determine if contamination levels have changed. Otherwise, an HRS score can be generated from existing file data.

Date of Previous Summary: 11/27/84
Previous Author: B. Grabowski

Current Date: 6/24/85
Author: C. Grobbel

Site Assessment Unit
Groundwater Quality Division
Michigan Dept. of Natural Resources

RS-8509-07

MI-0545-08

SITE DESCRIPTION/EXECUTIVE SUMMARY

Site Name and Location

Johnson Control-Globe Union
951 Aiken Road
Owosso, MI 48867

County: Shiawassee
Michigan Code Number: 78-07N-03E-20CC
DNR District: Lansing
EPA ID Number: MID058816927 ok

SAS Score/Screen No.: 07

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Date of Previous Summary: 11/27/84
Previous Author: B. Grabowski

Current Date: 6/24/85
Author: C. Grobbel

Site Assessment Unit
Groundwater Quality Division
Michigan Dept. of Natural Resources

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION
01 STATE: MI | 02 SITE NUMBER: D058816927

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Johnson Controls - Globe Union	951 Aiken Road				
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Owosso	MI	48867	Shiawassee	155	10
09 COORDINATES LATITUDE	LONGITUDE				
43°59'06"	84°08'45"	Owosso South Quad (7.5 min.) 1972			

10 DIRECTIONS TO SITE (Starting from nearest public road)
I-69 East to M-52 North into Owosso. East on M-21 in Owosso for ¼ mile to M-71 south. M-71 curves East, follow M-71 1¼ miles to Aiken Road. Site is on East side of Aiken Road 100 yards from M-71.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)		
Johnson Controls Inc.	5757 North Green Bay Ave.		
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
Milwaukee	WI	53209	(414) 228-1200
07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)		
Keith Fizzell - Plant Mgr.	951 Aiken Rd.		
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
Owosso	MI	48867	(517) 723-7831

13 TYPE OF OWNERSHIP (Check one)
☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: 7 21 80 (MONTH DAY YEAR) ☒ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: 6 8 81 (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES ☐ NO DATE 10 15 84 (MONTH DAY YEAR)
BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☒ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
☒ A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
~1940 (BEGINNING YEAR) / present (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Battery Acids, Sulfuric Acid, PCBs, heavy metals, oil

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Surface water Environment / population Soils Environment
Groundwater " "
Drinking water " "

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed; complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Leroy Vohovick	DNR - Hazardous Waste - Lansing District	(517) 322-1300

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Barb Grabowski	DNR	SAU	(517) 373-4800	6 24 85 (MONTH DAY YEAR)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
MI	D058816927

26

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- A SOLID
- B POWDER, FINES
- X C SLUDGE
- D OTHER Sludge in discharge drain - Accumulation
- E SLURRY
- X F LIQUID
- G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS at least 30yd³ - buried sludge on site

NO OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- X A TOXIC
- X B CORROSIVE
- C RADIOACTIVE
- X D PERSISTENT
- E SOLUBLE
- F INFECTIOUS
- G FLAMMABLE
- H IGNITABLE
- I HIGHLY VOLATILE
- J EXPLOSIVE
- K REACTIVE
- L INCOMPATIBLE
- M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	unknown		30 yds³ known minimum
OLW	OILY WASTE	—	—	2000 mg/kg in Shiawassee R. sedi.
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	17000	mg/kg	PCB in Shiawassee R. Sedi. at discharge pt.
IOC	INORGANIC CHEMICALS			
ACD	ACIDS	—	tanks	Battery, Sulfuric Acids
BAS	BASES			
MES	HEAVY METALS	—	—	As, Ba, Cd, Cr, Cu, Pb, Mn, Se, Ag, Zn Ni

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OCC	PCB 1242	Class-01-9	in Shiawassee R. sed. @ discharge pipe outfall	17000	mg/kg
OCC	PCB 1254	" "	Shiawassee R. Sediments @ company pipe outfall	3000	mg/kg
OLW	Oil		" "	2000	mg/kg
MES	As Arsenic	7440-38-2	Groundwater Sample	.073	mg/l
MES	Ba Barium	7440-39-3	" "	.75	"
MES	Cd Cadmium	7440-43-9	" "	.031	"
MES	Cr Chromium	7440-47-3	" "	.04	"
MES	Cu Copper	7440-50-8	" "	.03	"
MES	Pb Lead	Class-01-9	" "	.058	"
MES	Mn Manganese	7439-96-5	" "	15.8	"
MES	Hg Mercury	7439-97-6	" "	.0007	"
MES	Se Selenium	7782-49-2	" "	.008	"
MES	Ag Silver	7440-22-4	" "	.02	"
MES	Zn Zinc	7440-66-6	" "	.3	"
MES	Ni Nickel	7440-02-0	in Shiawassee R @ discharge pt.	1500.	"
OCC	Phenol	108-95-2	in Groundwater Sample	.013	"

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

MDNR Groundwater Quality Div. File; Region III H.Q. MDNR - Hazardous Waste Div., Surface Water Quality Div.

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: MI
02 SITE NUMBER: D058816927
26

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION — 02 [X] OBSERVED (DATE: 7/6/84) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 21,326.
04 NARRATIVE DESCRIPTION
- Sludges buried on-site, of at least 30 yd³'s; groundwater shows high levels of heavy metals and Phenol. Soil in the area are generally heavy, with Clay-loam subsoils, underlain by Shale (30') and sandstone bedrock aquifer

01 [X] B. SURFACE WATER CONTAMINATION — 02 [X] OBSERVED (DATE: 6/24/80) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 21,326.
04 NARRATIVE DESCRIPTION
- Shiawassee River sediments showed high levels of PCB's, some heavy metals and oil at point of discharge from Johnson Controls. Downstream levels are generally higher than upstream levels. Concern that heavily contaminated sediments within the Seward Drain may dislodge and flow into the Shiawassee R.

01 [ ] C. CONTAMINATION OF AIR — 02 [ ] OBSERVED (DATE:) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED:
04 NARRATIVE DESCRIPTION
N/A

01 [ ] D. FIRE/EXPLOSIVE CONDITIONS — 02 [ ] OBSERVED (DATE) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED
04 NARRATIVE DESCRIPTION
N/A

01 [ ] E. DIRECT CONTACT — 02 [ ] OBSERVED (DATE) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED
04 NARRATIVE DESCRIPTION
N/A

01 [X] F. CONTAMINATION OF SOIL — 02 [ ] OBSERVED (DATE) — [X] POTENTIAL — [ ] ALLEGED
03 AREA POTENTIALLY AFFECTED: unknown (Acres)
04 NARRATIVE DESCRIPTION
200 gallon spill of untreated effluent on 6/10/80 onto surrounding soil and parking lot; potential for seepage into soil from Seward Co. Drain (company discharge channel)

01 [X] G. DRINKING WATER CONTAMINATION — 02 [ ] OBSERVED (DATE) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 21,326
04 NARRATIVE DESCRIPTION
Owosso municipal well #1 is approx. .5 mile to the northwest. Groundwater flow at site is north-northwest in direction at 3.3×10^{-8} to 5.5×10^{-8} ft/day.

01 [ ] H. WORKER EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE:) — [ ] POTENTIAL — [ ] ALLEGED
03 WORKERS POTENTIALLY AFFECTED:
04 NARRATIVE DESCRIPTION
N/A

01 [ ] I. POPULATION EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE:) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED:
04 NARRATIVE DESCRIPTION
N/A

5

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: MI
02 SITE NUMBER: D058816927

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 [X] J. DAMAGE TO FLORA — 02 [ ] OBSERVED (DATE: _____) — [X] POTENTIAL — [ ] ALLEGED
04 NARRATIVE DESCRIPTION: State / Company official correspondance concerning proper disposal of bulbous weeds growing around edge of settling lagoon on July 16, 1981. a 250,000 gal

01 [X] K. DAMAGE TO FAUNA — 02 [X] OBSERVED (DATE: 6/24/80) — [ ] POTENTIAL — [ ] ALLEGED
04 NARRATIVE DESCRIPTION (include name(s) of species): fish in Shiawassee river at, upstream & downstream from discharge point show PCB ranging from 130-480 ug/kg; benthic organisms at discharge show 20 mg/kg zinc, upstream range is 30-60 mg/kg. FDA std PCB = 5 mg/l.

01 [X] L. CONTAMINATION OF FOOD CHAIN — 02 [ ] OBSERVED (DATE: _____) — [X] POTENTIAL — [ ] ALLEGED
04 NARRATIVE DESCRIPTION: - potential for human consumption of heavily contaminated organisms from Shiawassee River, especially near this site's pipe outfall.

01 [X] M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums) — 02 [ ] OBSERVED (DATE: _____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 21,326. — 04 NARRATIVE DESCRIPTION
existence of buried sludges somewhere on-site in an unlined, uncapped area is potential.

01 [ ] N. DAMAGE TO OFFSITE PROPERTY — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
04 NARRATIVE DESCRIPTION
N/A

01 [X] O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 [X] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
04 NARRATIVE DESCRIPTION
- Seward (and/or Caledonia Park) County Drain(s) are heavily contaminated with heavy metals and PCB in sediments

01 [ ] P. ILLEGAL/UNAUTHORIZED DUMPING — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
04 NARRATIVE DESCRIPTION
N/A

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS
N/A

III. TOTAL POPULATION POTENTIALLY AFFECTED: 21,326

IV. COMMENTS
Johnson Controls - Globe Battery produces automotive batteries, it generates and stores hazardous waste for upto 60 days, is a licensed hauler of hazardous waste.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)
MDNR Groundwater Quality Div. Files, MDNR Region III H.Q. Hazardous Waste, Surface Water Quality Files.

EPA FORM 2070-12 (7-81)

EPA · Notification of Hazardous Waste Site

United States Environmental Protection Agency Washington DC 20460

This initial notification information is required by Section 103(c) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 and must be mailed by June 9, 1981.

Please type or print in ink. If you need additional space, use separate sheets of paper. Indicate the letter of the item which applies.

810608

MI #168

MIS-000-001-286

A Person Required to Notify:

Enter the name and address of the person or organization required to notify

Name: Johnson Controls, Inc.

Street: 5757 North Green Bay Avenue

City: Milwaukee State: WI Zip Code: 53209

B Site Location:

Enter the common name (if known) and actual location of the site.

JOHNSON. CONTROLS INC-

Name of Site: Globe-Union

Street: 951 Aiken Road

City: Owosso County: Shiawasee State: MI Zip Code: 48867

MID058816927

C Person to Contact:

Enter the name, title (if applicable), and business telephone number of the person to contact regarding information submitted on this form.

Name (Last, First and Title): NICOLA, BOB CONTROL ENGINEER

Phone: (414)-288-2452

D Dates of Waste Handling:

Enter the years that you estimate waste treatment, storage, or disposal began and ended at the site.

From (Year): To (Year): Isolated incident in 1975

E Waste Type: Choose the option you prefer to complete

Option 1: Select general waste types and source categories. If you do not know the general waste types or sources, you are encouraged to describe the site in Item I—Description of Site.

General Type of Waste: Place an X in the appropriate boxes. The categories listed overlap. Check each applicable category.

1 ☐ Organics
2. ☐ Inorganics
3. ☐ Solvents
4. ☐ Pesticides
5 ☐ Heavy metals
6 ☐ Acids
7. ☐ Bases
8. ☐ PCBs
9 ☐ Mixed Municipal Waste
10. ☐ Unknown
11. ☐ Other (Specify)

Source of Waste: Place an X in the appropriate boxes

1. ☐ Mining
2. ☐ Construction
3 ☐ Textiles
4. ☐ Fertilizer
5 ☐ Paper/Printing
6 ☐ Leather Tanning
7. ☐ Iron/Steel Foundry
8. ☐ Chemical, General
9. ☐ Plating/Polishing
10 ☐ Military/Ammunition
11 ☐ Electrical Conductors
12 ☐ Transformers
13 ☐ Utility Companies
14 ☐ Sanitary/Refuse
15 ☐ Photofinish
16 ☐ Lab/Hospital
17 ☐ Unknown
18 ☐ Other (Specify)

Option 2: This option is available to persons familiar with the Resource Conservation and Recovery Act (RCRA) Section 3001 regulations (40 CFR Part 261).

Specific Type of Waste: EPA has assigned a four-digit number to each hazardous waste listed in the regulations under Section 3001 of RCRA. Enter the appropriate four-digit number in the boxes provided. A copy of the list of hazardous wastes and codes can be obtained by contacting the EPA Region serving the State in which the site is located.

D008		

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JUN 10 1981

Notification of Hazardous Waste Site — Side Two

F Waste Quantity

Place an X in the appropriate boxes to indicate the facility types found at the site.

In the "total facility waste amount" space give the estimated combined quantity (volume) of hazardous wastes at the site using cubic feet or gallons.

In the "total facility area" space, give the estimated area size which the facilities occupy using square feet or acres.

Facility Type

1. ☐ Piles
2. ☐ Land Treatment
3. ☐ Landfill
4. ☐ Tanks
5. ☐ Impoundment
6. ☐ Underground Injection
7. ☐ Drums, Above Ground
8. ☐ Drums, Below Ground
9. ☒ Other (Specify) See below

Total Facility Waste Amount

cubic feet 800

gallons

Total Facility Area

square feet

acres less than .01 acre

G Known, Suspected or Likely Releases to the Environment:

Place an X in the appropriate boxes to indicate any known, suspected, or likely releases of wastes to the environment.

☐ Known ☐ Suspected ☐ Likely ☒ None Known

Note: Items H and I are optional. Completing these items will assist EPA and State and local governments in locating and assessing hazardous waste sites. Although completing the items is not required, you are encouraged to do so

H Sketch Map of Site Location: (Optional)

Sketch a map showing streets, highways, routes or other prominent landmarks near the site. Place an X on the map to indicate the site location. Draw an arrow showing the direction north. You may substitute a publishing map showing the site location.

I Description of Site: (Optional) 002

Describe the history and present conditions of the site. Give directions to the site and describe any nearby wells, springs, lakes, or housing. Include such information as how waste was disposed and where the waste came from. Provide any other information or comments which may help describe the site conditions.

In 1975 approximately 800 cubic feet of lead sludge was buried on the site.

J Signature and Title:

The person or authorized representative (such as plant managers, superintendents, trustees or attorneys) of persons required to notify must sign the form and provide a mailing address (if different than address in item A). For other persons providing notification, the signature is optional. Check the boxes which best describe the relationship to the site of the person required to notify. If you are not required to notify check "Other"

Name Johnson Controls, Inc.

Street 5757 N. Green Bay Ave.

City Milwaukee State WI Zip Code 53209

Signature Milton Zilis Date 6/8/81

☒ Owner, Present
☐ Owner, Past
☐ Transporter
☐ Operator, Present
☐ Operator, Past
☐ Other

[FR Doc. 81-11550 Filed 4-14-81; 8:45 am]

BILLING CODE 6560-26-C

Johnson Controls, Inc.
5757 N. Green Bay Avenue
Post Office Box 591
Milwaukee, WI 53201
Tel. 414/228 1200

Office of the General Counsel

JOHNSON CONTROLS

June 8, 1981

U.S. Environmental Protection
Agency - Region 5
Sites Notification
Chicago, Illinois 60604

Gentlemen:

Enclosed are the filings for the Environmental Protection Agency Notification of Hazardous Wastes pursuant to the Federal Register's requirements dated April 15, 1981.

Very truly yours,

JOHNSON CONTROLS, INC.

Irene Bialas/dlk

Irene Bialas
Division Counsel

IB:dlk

Enclosures

JUN 10 1981

MICHIGAN WATER RESOURCES COMMISSION
FACILITY INSPECTION REPORT

FACILITY	REGION	DISTR.		FACILITY	PERMIT	RATING
JOHNSON CONTROLS, INC. GLOBE BATTERY DIVISION 951 SOUTH AIKEN ROAD CHOSSO MI 48867	1	2	104	780003	MI0003484	ADEQUATE

LAST VISIT			
TYPE	DESCRIPTION	DATE	REASON
1	ENFORCEMENT	07 / 81	A

VISIT REASONS

A - REGULAR SCHEDULE
B - EFFLUENT FAILURE
C - COMPLIANCE FAILURE
D - REGION REQUEST
E - FACILITY REQUEST
F - PUBLIC COMPLAINT
G - INFORMATION CHANGES
H - OTHER

OPERATOR - NUMBER	CERTIFIED 04/74
HUNTER, WELTON B.	W000789

CURRENT VISIT			
REASON	DATE (M M D D Y Y)	FOLLOW-UP DATE (M M D D Y Y)	NO. OF VISITS
E	10/5/84		

RATING FOR THIS INSPECTION:
FACILITY CLASSIFICATION: A1B A2F B1B B2A Ad.
OPERATOR CLASSIFICATION: A1B B1B

OUTFALL NUMBERS AND DESCRIPTIONS
780026 003 PROCESS WASTEH2O TO SHIAWASSEE R.VIA DRN

District staff met with Keith Fizzell to receive + discuss amended Pb data information for Jan-Sept 1984. Swanson Labs made a change in their reporting data for Johnson Controls. The change was not noticed by the operator, therefore the MRR's show a 10 fold discrepancy for Pb.

Fed. Reg. for battery producers have been issued + co-must meet more stringent limits by March 7, 1987. Johnson Control has granted 1.3 million dollars for environmental upgrades of equipment. Part of program is to cut down H2O use - about 20,000 gal per day. Company has made following chan + installation of water fountains instead of using eye wash units for drinking purposes -

2. Begin using Nalco polymer to assist flocculation. Will submit info to state. Are investigating recycling of H2O off clarifier + using as contact H2O to wash off batteries
3. Cut off H2O coming off sludge pits. H2O is now recirculated
4. Wastes from lab being collected instead of going to treatment unit - shipped with hazardous waste to Detroit

INSPECTED BY: _____

ANY CHANGES REQUIRED IN WISER FILE

5. Change of sampling location being studied. Proposal to add on to treatment building. Will move sampling location from outfall #003 to building + new flow measurement equipment will be installed. Worry about sludge in present manhole could account for occasional high Pb readings
6. Will investigate use of cooling tower, closed loop.

Plant in full production - 3 shifts - 11,000 batteries per day
Holding lagoon - Bulrushes under control - level of H2O low
Leaching pond - Put in alarm level (Joe Boyle EPA)

1 WHITE: LANSING-FIGURAL OFFICE 2 CANARY: LANSING DATA UNIT 3 PINK: DISTRICT COPY

R-4094 A/7

SWANSON ENVIRONMENTAL INC.

ORIGINAL

Laboratory Services Division
3490 North 127th Street
Brookfield, Wisconsin 53005
telephone (414) 783-6111

REPORT NUMBER B 1125

ANALYTICAL REPORT

SHIP TO:
Johnson Controls, Inc.
Globe Battery Division
P.O. Box 248
Owosso, MI 48867

Attn: Mr. W. Haber

DATE January 6, 1984
PURCHASE ORDER NO. 3N-1106
SEI JOB NO. L 2308
DATE COLLECTED See Below
DATE RECEIVED Various
PAGE 1 OF 3

EI ID	Sampler Sample Number	Date Collected	Lead µg/l	Lead lbs/gal*	Total Suspended Solids mg/l	Total Suspended Solids lbs/gal*
308-1	2168	12/1/83	0.07 0 73	0.58 .04 .05	4.0	73 33.4 2.4
308-2	2169	12/2/83	0.06 0 93	0.50 .05	3.3	93 27.5 2.6
308-7	2169A	12/3/83	0.08 0 90	0.67 .06	4.0	90 33.4 3.0
308-8	2170	12/5/83	0.05 0 35	0.42 .01	4.2	35 35.0 1.2
308-9	2171	12/6/83	0.05 0 108	0.42 .05	3.4	108 28.4 3.1
308-10	2172	12/7/83	0.03 0 110	0.25 .03	4.2	110 35.0 3.9
308-11	2173	12/8/83	0.06 0 107	0.50 .05	3.0	107 25.0 2.7
308-12	2174	12/9/83	0.05 0 104	0.42 .04	3.0	104 25.0 2.6
308-21	2174A	12/10/83	0.08 0 105	0.67 .07	4.1	105 34.2 3.6
308-22	2175	12/12/83	0.08 0 32	0.67 .02	3.3	32 27.5 0.9
308-23	2176	12/13/83	0.09 0 111	0.75 .08	4.9	111 40.9 4.5
308-24	2177	12/14/83	0.07 0 108	0.58 .06	4.1	108 34.2 3.7
308-25	2178	12/15/83	0.14 0 107	1.17 .13	3.7	107 30.8 3.3
308-26	2179	12/16/83	0.08 0 107	0.67 .07	3.9	107 32.5 3.5
308-35	2179A	12/17/83	0.09 0 103	0.75 .08	17.5	103 146 15.0
308-36	2180	12/19/83	0.12 0 20	1.00 .02	8.5	20 70.9 1.4
308-37	2181	12/20/83	0.09 0 99	0.75 .07	2.3	99 19.2 1.9
308-38	2182	12/21/83	0.12 0 105	1.00 .11	3.5	105 29.2 3.1
308-39	2183	12/22/83	0.11 0 104	0.92 .10	3.3	104 27.5 2.9

* Concentrations should be multiplied by 10 to the minus six ($x10^{-6}$).

Respectfully Submitted
Swanson Environmental, Inc.

Ronald Wen

Ronald Wen

Laboratory Service Division
3490 North 127th Street
Brookfield, Wisconsin 53005
telephone (414) 783-6111

ORIGINAL

REPORT NUMBER B 1438

ANALYTICAL REPORT

SHIP TO
Johnson Controls, Inc.
Globe Battery Division
P.O. Box 248
Owosso, MI 48867

Attn: Mr. W. Haber

DATE May 11, 1984
PURCHASE ORDER NO. 3N-1106
SEI JOB NO. L 2586
DATE COLLECTED See Below
DATE RECEIVED Various
PAGE 1 OF 4

SEI ID	Sample Number	Sampler Date Collected	Lead mg/l	Lead lbs/gal*	Total Suspended Solids mg/l	Total Suspended Solids lbs/gal*
2586-1	2247A	3/31/84	0.1	0.8	3.8	31.7
2586-3	2247B	4/1/84	0.2	1.7	1.6	13.4
2586-4	2248	4/2/84	0.4	3.3	2.9	24.2
2586-5	2249	4/3/84	0.2	1.7	1.9	15.9
2586-6	2250	4/4/84	0.1	0.8	2.5	20.9
2586-7	2251	4/5/84	0.1	0.8	<1.0	<8.3
2586-8	2252	4/6/84	0.2	1.7	6.5	54.2
2586-17	2252A	4/7/84	0.2	1.7	4.8	40.1
2586-18	2252B	4/8/84	0.2	1.7	4.8	40.1
2586-19	2253	4/9/84	0.3	2.5	4.8	40.1
2586-20	2254	4/10/84	0.4	3.3	5.4	45.1
2586-21	2255	4/11/84	0.4	3.3	7.1	59.2
2586-22	2256	4/12/84	0.1	0.8	4.9	40.9
2586-23	2257	4/13/84	0.2	1.7	5.2	43.4
2586-33	2257A	4/14/84	0.5	4.2	3.8	31.7
2586-34	2257B	4/15/84	0.7	5.8	1.6	13.4
2586-35	2258	4/16/84	0.4	3.3	2.0	17.0
2586-36	2259	4/17/84	0.6	5.0	1.6	13.4
2586-37	2260	4/18/84	0.5	4.2	5.2	43.4
2586-38	2261	4/19/84	0.2	1.7	2.5	20.9
2586-47	2262	4/20/84	0.7	5.8	2.6	21.7
2586-48	2263	4/23/84	0.2	1.7	7.3	60.9

* Concentrations should be multiplied by 10 to the minus six ($x10^{-6}$).

cc: Ms. Cathy Clemson

Respectfully Submitted
Swanson Environmental, Inc.

Ronald Wen

Ronald Wen
Laboratory Director

FORM NO. 02