R5-8307-048

IN-0186-06

Facility name: JOHNSON CONTROLS, INC.

Location: 1302 E. MONROE ST., GOSHEN, IND.

EPA Region: V

Person(s) in charge of the facility: STAN LEEDY - POLLUTION CONT. ENG.
HAROLD BROOKS - OWNER

US EPA RECORDS CENTER REGION 5
473735

Name of Reviewer: RICHARD DAGNALL Date: 12/10/84

General description of the facility:

(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

BETWEEN 1937 AND 1964 Cd AND Sn PLATING WASTE WAS DISCHARGED INTO THE ROCK RUN CREEK. FROM 1965 TO 1974 ALL WASTE WATER AND SLUDGE WAS PUT INTO THE GOSHEN SEWER SYSTEM. SINCE 1974, ALL WASTE HAS BEEN TREATED ONSITE AND THE SLUDGE HAS BEEN HAULED TO AN APPROVED LANDFILL.

Scores: S_M = 0 (S_{gw} = 0 S_{sw} = 0 S_a = -)

S_{FE} =

S_{DC} =

FIGURE 1
HRS COVER SHEET

BILLING CODE 6560-50-C

Ground Water Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	0 45	1	0	45	3.1
If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.					
2 Route Characteristics					3.2
Depth to Aquifer of Concern	0 1 2 3	2	4	6	
Net Precipitation	0 1 2 3	1	1	3	
Permeability of the Unsaturated Zone	0 1 2 3	1	0	3	
Physical State	0 1 2 3	1	3	3	
	Total Route Characteristics Score		8	15	
3 Containment	0 1 2 3	1	0	3	3.3
4 Waste Characteristics					3.4
Toxicity/Persistence	0 3 6 9 12 15 18	1	18	18	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	5	8	
	Total Waste Characteristics Score		23	26	
5 Targets					3.5
Ground Water Use	0 1 2 3	3	9	9	
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1	35	40	
	Total Targets Score		44	49	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0	57,330	
7 Divide line 6 by 57,330 and multiply by 100		S_{gw} = 0			

FIGURE 2
GROUND WATER ROUTE WORK SHEET

Surface Water Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Observed Release	0 45	1	0	45	4.1
If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.					
2 Route Characteristics					4.2
Facility Slope and Intervening Terrain	0 1 2 3	1	0	3	
1-yr. 24-hr. Rainfall	0 1 2 3	1	1	3	
Distance to Nearest Surface Water	0 1 2 3	2	6	6	
Physical State	0 1 2 3	1	3	3	
	Total Route Characteristics Score		10	15	
3 Containment	0 1 2 3	1	0	3	4.3
4 Waste Characteristics					4.4
Toxicity/Persistence	0 3 6 9 12 15 18	1	18	18	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	5	8	
	Total Waste Characteristics Score		23	26	
5 Targets					4.5
Surface Water Use	0 1 2 3	3	0	9	
Distance to a Sensitive Environment	0 1 2 3	2	0	6	
Population Served/Distance to Water Intake Downstream	0 4 6 8 10 / 12 16 18 20 / 24 30 32 35 40	1	0	40	
	Total Targets Score		0	55	
6 If line 1 is 45, multiply 1 x 4 x 5 / If line 1 is 0, multiply 2 x 3 x 4 x 5			0	64,350	
7 Divide line 6 by 64,350 and multiply by 100		S_{sw} =	0		

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

DOCUMENTATION RECORDS
FOR
HAZARD RANKING SYSTEM

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

FACILITY NAME: JOHNSON CONTROLS, INC.

LOCATION: 1302 E. MONROE ST., GOSHEN, IND.

GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

Rationale for attributing the contaminants to the facility:

* * *

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifers(s) of concern:

SHALLOW AQUIFER RANGING FROM 20-50'. (2)

Depth(s) from the ground surface to the highest seasonal level of the saturated zone [water table(s)] of the aquifer of concern:

15 FEET. (3)

Depth from the ground surface to the lowest point of waste disposal/ storage:

0 FEET - SURFACE IMPOUNDMENT.
UNTIL MOVED TO APPROVED LANDFILL (4

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

32 IN./YR. (1)

Mean annual lake or seasonal evaporation (list months for seasonal):

30 IN./YR. (1)

Net precipitation (subtract the above figures):

2 IN./YR

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

TOP SOIL - FILL
CLAY (3)

Permeability associated with soil type:

TOP SOIL - FILL	10^{-3} - 10^{-5} cm/sec
CLAY	$< 10^{-7}$ cm/sec (1)

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

SLUDGE, LIQUID (5,6)

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

DRUMS CONTAINING FILTER PAPER AND SLUDGE ARE STORED IN A SEPERATE BUILDING UNTIL THEY ARE TAKEN TO AN APPROVED LANDFILL. THE BUILDING HAS A COLLECTION SYSTEM IN CASE OF A SPILL. (4)

Method with highest score:

SEE ABOVE

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

CYANIDE (5,6)
TIN
CHROMIUM

Compound with highest score:

CHROMIUM (8)

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

1434 DRUMS (7)

Basis of estimating and/or computing waste quantity:

THE CURRENT ANNUAL PRODUCTION OF WASTE WAS USED AS VOLUME OF WASTE, FOR THE YEARS 1937 TO 1974, DURING WHICH WASTES WERE EITHER DUMPED IN THE ROCK RUN CREEK OR THE GOSHEN SEWER SYSTEM. (7)

5 TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

THE AQUIFER IS USED FOR DRINKING PURPOSES. (2)

Distance to Nearest Well

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

1000' NORTH EAST OF SITE (11)

Distance to above well or building:

1000' (11)

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

5,000 - 6,000 PEOPLE (2)

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

Total population served by ground water within a 3-mile radius:

5,000 - 6,000

SURFACE WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

Rationale for attributing the contaminants to the facility:

* * *

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

0-2% (11)

Name/description of nearest downslope surface water:

ROCK RUN CREEK (11)

Average slope of terrain between facility and above-cited surface water body in percent:

0-2% (11)

Is the facility located either totally or partially in surface water?

NO

(11)

Is the facility completely surrounded by areas of higher elevation?

NO (11)

1-Year 24-Hour Rainfall in Inches

2 IN. (1)

Distance to Nearest Downslope Surface Water

.15 mi (11)

Physical State of Waste

SLUDGE, LIQUID (5,6)

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

DRUMS CONTAINING FILTER PAPER AND SLUDGE ARE STORED IN A SEPERATE BUILDING UNTIL THEY ARE TAKEN TO AN APPROVED LANDFILL. THE BUILDING HAS A COLLECTION SYSTEM IN CASE OF A SPILL. (4)

Method with highest score:

SEE ABOVE

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

CHROMIUM
TIN
CYANIDE (5,6)

Compound with highest score:

CHROMIUM (8)

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

1434 DRUMS (7)

Basis of estimating and/or computing waste quantity:

USING THE FACILITIES ESTIMATION OF ANNUAL PRODUCTION, THE ESTIMATES ARE MULTIPLIED BY THE 37 YEARS THE FACILITY DUMPED ITS WASTE. (7)

* * *

5 TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

NONE (12)

Is there tidal influence?

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

NONE (2)

(12)

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

Total population served:

Name/description of nearest of above water bodies:

Distance to above-cited intakes, measured in stream miles.

HRS DOCUMENTATION LOG SHEET

SITE NAME JOHNSON CONTROLS, INC.
CITY GOSHEN STATE IN
IDENTIFICATION NUMBER IND 009549-593

REFERENCE NUMBER	DESCRIPTION OF THE REFERENCE
1.	UNCONTROLLED HAZARDOUS WASTE SITE RANKING SYSTEM: A USERS MANUAL
2.	PHONE CONVERSATION BETWEEN RICHARD DAGNALL & DOUG PERRY
3.	WELL LOGS
4.	VISUAL INSPECTION BY EE, FIT
5.	EPA NOTIFICATION OF HAZARDOUS WASTE SITE
6.	EPA GENERAL INFORMATION SHEET
7.	HANDOUT BY S.D. LEEDY
8.	SAX, DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS
9.	INDIANA STREAM POLLUTION CONTROL BOARD MONTHLY MONITORING
10.	1980 CENCUS OF POPULATION U.S. DOC
11.	TOPOGRAPHIC MAP
12	PHONE CONVERSATION BETWEEN R. DAGNALL & DON SCHNOEBELEN

PHONE CONVERSATION

REF #2

DATE 12/10/84 TDD # R05 8307-4E

TIME 10:15 AM

SITE JOHNSON CONTROLS, INC.

CONTACT DOUG PERRY PHONE (219) 533-8621

111 E. JEFFERSON

GOSHEN UTIL. CITY SEWER + WATER

SUBJECT WATER SUPPLY SYSTEM

THE CITY OF GOSHEN HAS A POPULATION OF ROUGHLY 20,000 PEOPLE OF WHICH 5,000-6,000 USE PRIVATE WELLS FOR DRINKING WATER.

THE MUNICIPLE WATER COMES FROM WELLS TAPPING INTO AN AQUIFER THAT IS ABOUT 140'-180' DEEP. THE MUNICIPLE WATER IS AVAILABLE TO MOST BUT NOT ALL PRIVATE WELL USERS.

THE PRIVATE WELLS TAP INTO AN AQUIFER WHICH IS 20'-50' DEEP.

THE ELKHART RIVER IS ONLY REALLY USED FOR RECREATION

Richard A. Dagnall

Date 12/10/84

LAYNE-NORTHERN COMPANY
Incorporated
MISHAWAKA, INDIANA

REF #3

☐ TEST
☒ PERMANENT

Job No. M-6875

WELL LOG No. 1 CITY Goshen County Elkhart
Owner City Water Dept. Township Elkhart
Section
Location 110' East of Power Plant State Ind.
From Land Description ft. East and ft. North of SW Corner of Section.
From Street or Road 140' S. of Creek - 10' W. of East fence

FORMATION FOUND — DESCRIBE FULLY	FROM NATURAL GROUND LEVEL			
	Depth to Top of Stratum	Depth to Bottom of Stratum	Thickness of Stratum	Static Water Level
Fill	0	10	10	
Sand & Gravel	10	14	4	
Clay with some gravel	14	29	15	
Sand and gravel	29	85	56	
Sand and gravel with boulders	85	92	7	
Sand and gravel	92	100	8	
Sand and gravel with boulders	100	104	4	
Sand and gravel	104	125	21	
Sand and gravel	125	134	9	140
Gravel	134	137	3	
Clean gravel and sand	137	145	8	
Gravel and sand (not so clean)	145	148	3	
Clean gravel and sand	148	159	11	
Clay with gravel	159	164	5	

12 inch diameter hole drilled by ☒ Cable Tool ☐ Rotary ☐ Jetting

Pipe left in hole

Date Started June 13, 19 Finished July 18, 1958 J. H. Williams
Driller

File

LAYNE-NORTHERN COMPANY
Incorporated
MISHAWAKA, INDIANA

☐ TEST
☒ PERMANENT

Job No. M10206

LN WELL LOG No. 3 CITY Goshen County Elkhart
Cust. Wll Owner Water Department (So. Station Township Elkhart
Section
Location State Indiana
From Land Description ft. East and ft. North of SW Corner of Section.
From Street or Road 120' W. of 9th St. & 210' N. of Jackson St.

FORMATION FOUND — DESCRIBE FULLY	FROM NATURAL GROUND LEVEL			
	Depth to Top of Stratum	Depth to Bottom of Stratum	Thickness of Stratum	Static Water Level
Top Soil	0	1	1	
Sandy Clay	1	4	3	
Sand & Gravel	4	49	45	
Clay	49	96	47	
Sandy Clay	96	106	10	
Gravely Clay	106	125	19	
Muddy Sand and Gravel	125	137	12	
Sand & Gravel	137	177	40	26'

12 inch diameter hole drilled by ☒ Cable Tool ☐ Rotary ☐ Jetting
Pipe left in hole 156' 10"

Date Started 4/11/60 Finished 4/25/60 George E. Petz
DRILLER

LAYNE-NORTHERN COMPANY

Incorporated

MISHAWAKA, INDIANA

☐ TEST

☒ PERMANENT

Job No. M-6242

WELL LOG No. 2 CITY GOSHEN (Main Plant) County ELKHART

Owner CITY OF GOSHEN Township ELKHART

Section

Location 250' EAST OF 5th STREET State INDIANA

75' NO. WEST OF NO. EAST CORNER OF PLANT

From Land Description ft. East and ft. North of SW Corner of Section.

From Street or Road

REPLACING THEIR WELL #2

FORMATION FOUND — DESCRIBE FULLY	FROM NATURAL GROUND LEVEL			
	Depth to Top of Stratum	Depth to Bottom of Stratum	Thickness of Stratum	Static Water Level
FILL	0'	10'	10'	14'
CLAY	10'	45'	35'	
DIRTY SAND	45'	60'	15'	
SAND WITH A LITTLE GRAVEL	60'	85'	25'	
SAND WITH MORE GRAVEL	85'	90'	5'	
GRAVEL	90'	100'	10'	
SAND	100'	103'	3'	
GRAVEL	103'	114'	11'	
SAND	114'	125'	11'	
GRAVEL	125'	140'	15'	
SAND	140'	145'	5'	
SAND FINE	145'	155'	10'	

12 inch diameter hole drilled by ☒ Cable Tool ☐ Rotary ☐ Jetting

Pipe left in hole

Date Started 5-27-54 Finished 6-16-54 ARTHUR FOLGER DRILLER

From Goshen Utilities
Doug Perry

(other 5 located at 111 E. Jefferson Goshen, IN)

Layne NORTHERN COMPANY INCORPORATED

INDIANAPOLIS • MISHAWAKA • LANSING

☐ TEST

☒ PERMANENT

Job No. 13466

WELL LOG No. 1A CITY Goshen County Elkhart

Owner City of Goshen Township Elkhart

Section 9

Location State Indiana

From Land Description 150 S. of tracks

From Street or Road 150 E. of Bldg.

FORMATION FOUND – DESCRIBE FULLY	FROM NATURAL GROUND LEVEL			
	Depth to Top of Stratum	Depth to Bottom of Stratum	Thickness of Stratum	Static Water Level
Fill	0	6	6	
Clay	6	8	2	
Coarse Sand and Gravel	8	25	17	
Grey Clay with gravel	25	40	15	
Very coarse gravel	40	45	5	15
Grey clay with coarse gravel	45	48	3	
Very coarse gravel	48	56	8	15
Coarse Sand and gravel	56	75	19	
Boulders	75	99	24	
Clay balls in gravel	99	105	6	
Coarse gravel with boulders	105	125	20	
Coarse Gravel with some clay balls	125	137	12	
Shale	137	139	2	
Coarse Gravel	139	145	7	
Very coarse sand and gravel	145	170	35	

Hole 12 "Dia Drilled by: Cable Tool x Rotary ____ Jetting ____ Reverse Circ. ____ Bucket ____ Auger ____

Rotary Hole Grouted: Neat Cement ____ Drilling Mud ____ Other ____

Casing 12 "OD From 24 "above ground to 145 feet below ground. Weight 49 Pounds per foot

Screen 12 " Set from 145 to 170 feet Make Johnson Type WWSS Slot 70

Pumping test 100 GPM drawdown to 29 feet after 8 hours pumping

Date Completed 10-10-72 Driller John Bowles

REF. #4

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IN	D009549593

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☒ A. NPDES	0000761	June '79	1984	1984-89 is being reissued
☐ B. UIC				
☒ C. AIR	201-06-85-05916	1981	June 1, 1985	Emission Control Permit for painting operations
☐ D. RCRA				
☒ E. RCRA INTERIM STATUS	IND009549593	July 1, 1982		Part A Application. Part B has not been requested.
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☒ I. OTHER (Specify) CERCLA Notification of hazardous waste	IN5000-001-134	6-8-81		
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☒ C. DRUMS, ABOVE GROUND	~80-30 gal	drums/year
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☒ F. LANDFILL	< 1	acre
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☒ I. OTHER (Specify) discharge to Rock Run Creek	UNK	

04 TREATMENT (Check all that apply)
☐ A. INCENERATION
☐ B. UNDERGROUND INJECTION
☒ C. CHEMICAL/PHYSICAL
☐ D. BIOLOGICAL
☐ E. WASTE OIL PROCESSING
☒ F. SOLVENT RECOVERY
☐ G. OTHER RECYCLING/RECOVERY
☐ H. OTHER (Specify)

05 OTHER

☒ A. BUILDINGS ON SITE: 3

06 AREA OF SITE: 13 (Acres)

07 COMMENTS Since 1974 all rinse water has been treated on site -- chrome reduction, cyanide destruction, pH adjustment and filtration. The filter paper and cake contains heavy metals, so it is drummed and sent to an approved landfill (Four Corners). All non-contact cooling water is discharged to Rock Run Creek and monitored monthly for water quality control.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☒ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ☒ D. INSECURE, UNSOUND, DANGEROUS (1)

(1) From 1937 - 64 containment was insecure.

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

Drums containing filter paper & sludge are stored in a separate building before they are hauled to an approved landfill. The building has a collection system in case of a hazardous waste spill.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☒ NO

02 COMMENTS

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

Site Inspection w/ Stan Leedy at Johnson Controls by Ecology & Environment, FIT, 9-17-84
NPDES monitoring reports, 1975 & 1981
RCRA Part A Application, 1982
CERCLA Notification of H.W. 1981

EPA FORM 2070-13 (7-81)

REF #5

EPA Notification of Hazardous Waste Site

R

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

IH#77 INS-000-001-134

A Person Required to Notify:

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

Name: JOHNSON CONTROLS, INC.

Street: 5757 N. Green Bay Avenue

City: Glendale State: WI Zip Code: 53209

B Site Location:

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

Name of Site: Johnson Controls, Inc.-Goshen Facility

Street: 1302 E. Monroe St.

IND009549593

City: Goshen County: Elkhart State: IN Zip Code: 46526

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): Schoenleber, Don - Materials Chemist

Phone: 414-277-4759

D Dates of Waste Handling:

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

From (Year): 1937 To (Year): 1965

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 ☐ Photographic
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.

Max. EPA Toxicity

D007	Chromium	1.0 mg/l
D006	Cadmium	5.0 mg/l
D002	corrosivity	
D003	reactivity	

000237 JUN-8 81

solid waste that exhibits the above but not listed as hazardous waste

[redacted]

JUN 10 1981

Notification of Hazardous Waste Site — Side Two

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 (Electroplating facility-~~rinse water discharge~~)

Total Facility Waste Amount

Cubic Feet:

Gallons: Unknown

Total Facility Area

Square Feet:

Acres: 12.6 13 A

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

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)

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.

From 1937 to 1965 the rinse water from the cadmium plating, tin plating and chromating operations were diverted to Rock Run Creek, adjacent to the Goshen, Indiana, property. This practice was terminated in 1965. From 1965 to 1974 this effluent was discharged to the city sanitary sewer system. Beginning in 1974, rinse waters were treated on site-cyanide destruction, chrome reduction PH adjustment and filtration.

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 North Green Bay Ave.

City: Glendale State: WI Zip: 53209

Signature: J. H. Keyes Date: 6-8-81

J. H. Keyes

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

(fill-in areas are spaced for elite type, i.e., 12 characters/inch).

Form Approved OMB No. 158-R0175

FORM 1 GENERAL

EPA

ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

REF #6

I. EPA I.D. NUMBER: F I N D Ø Ø 9 5 4 9 5 3 3

LABEL ITEMS

I. EPA I.D. NUMBER

III. FACILITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all Items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED	SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X		B. Does or will this facility *(either existing or proposed)* include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)	X			D. Is this a proposed facility *(other than those described in A or B above)* which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X			F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY

1 SKIP J O H N S O N C O N T R O L S I N C

IV. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*	B. PHONE *(area code & no.)*		
2 L E E D Y S T A N L E Y P O L L. C O N T R O L E N G.	219	5 3 3	2 1 1 1

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX

3 1 3 Ø 2 E M O N R O E S T R E E T

B. CITY OR TOWN	C. STATE	D. ZIP CODE
4 G O S H E N	I N	4 6 5 2 6

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

5 1 3 Ø 2 E M O N R O E S T R E E T

B. COUNTY NAME

E L K H A R T

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE *(if known)*
6 G O S H E N	I N	4 6 5 2 6	Ø 3 9

NOV 03 1980

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

A. FIRST	B. SECOND
3822 (specify) Measuring & Controlling Devices - Environmental Controls	(specify)
C. THIRD	**D. FOURTH**
(specify)	(specify)

VIII. OPERATOR INFORMATION

A. NAME: HARRY A MIHM

B. Is the name listed in Item VIII-A also the owner? ☐ YES ☒ NO

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)
F = FEDERAL
S = STATE
P = PRIVATE
M = PUBLIC (other than federal or state)
O = OTHER (specify)

P (specify)

D. PHONE (area code & no.): A 219 533 2111

E. STREET OR P.O. BOX: 1302 E MONROE ST.

F. CITY OR TOWN: GOSHEN

G. STATE: IN

H. ZIP CODE: 46526

IX. INDIAN LAND

Is the facility located on Indian lands? ☐ YES ☒ NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)	D. PSD (Air Emissions from Proposed Sources)
9 N IN 0000761	9 P 20-09-82-0525
B. UIC (Underground Injection of Fluids)	**E. OTHER (specify)**
9	9 (specify)
C. RCRA (Hazardous Waste)	**E. OTHER (specify)**
9 R	9 (specify)

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements. F9 A/50

XII. NATURE OF BUSINESS (provide a brief description)

Manufacturer and Distributor of Automatic Control devices - Principle processes are machining, stamping, molding, plating, painting, automatic and manual light assembly.

F9 A/51

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
Harold L. Brooks Owner	Harold L. Brooks	10-29-80

COMMENTS FOR OFFICIAL USE ONLY

Please print or type in the unshaded areas only (fill-in areas are spaced for elite type, i.e., 12 characters/inch).

Form Approved OMB No. 158-S80004

FORM 3 RCRA

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

HAZARDOUS WASTE PERMIT APPLICATION

Consolidated Permits Program

(This information is required under Section 3005 of RCRA.)

I. EPA I.D. NUMBER: F I N D Ø Ø 9 5 4 9 5 9 3

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (yr., mo., & day)	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below *(mark one box only)* to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

[X] 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

FOR EXISTING FACILITIES, PROVIDE THE DATE *(yr., mo., & day)* OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*: YR. 74 MO. Ø1 DAY Ø2

[ ] 2. NEW FACILITY *(Complete item below.)*

FOR NEW FACILITIES, PROVIDE THE DATE *(yr., mo., & day)* OPERATION BEGAN OR IS EXPECTED TO BEGIN: YR. MO. DAY

B. REVISED APPLICATION *(place an "X" below and complete Item I above)*

[X] 1. FACILITY HAS INTERIM STATUS

[ ] 2. FACILITY HAS A RCRA PERMIT

III. PROCESSES – CODES AND DESIGN CAPACITIES

A. PROCESS CODE – Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process *(including its design capacity)* in the space provided on the form *(Item III-C)*.

B. PROCESS DESIGN CAPACITY – For each code entered in column A enter the capacity of the process.

1. AMOUNT – Enter the amount.
2. UNIT OF MEASURE – For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D79	GALLONS OR LITERS
LANDFILL	D80	ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER
LAND APPLICATION	D81	ACRES OR HECTARES
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR, GALLONS PER HOUR OR LITERS PER HOUR
OTHER *(Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)*	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
LITERS	L
CUBIC YARDS	Y
CUBIC METERS	C
GALLONS PER DAY	U
LITERS PER DAY	V
TONS PER HOUR	D
METRIC TONS PER HOUR	W
GALLONS PER HOUR	E
LITERS PER HOUR	H
ACRE-FEET	A
HECTARE-METER	F
ACRES	B
HECTARES	O

EXAMPLE FOR COMPLETING ITEM III *(shown in line numbers X-1 and X-2 below)*: A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

C DUP 3 1

LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	B. 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE (from list above)	B. 1. AMOUNT	B. 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY
X-1	S02	600	G		5				
X-2	T03	20	E		6	S01	2000	G	
1	S01	1500 (51)	G		7				
2	S02	1100	G		8				
3	T04	35,000	U		9				
4	S01	3100	G		10				

III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

The following is a brief description of our Treatment System for treating Electroplating Waste.

a. Cyanide - Rinses are treated in a flow through batch two tank system. Chlorine gas is injected into a 1100 gal. tank at a PH of 11, elapsed time in this tank is 3.9 hours. Waters then flow to second 1100 gal. tank where PH is dropped to 8.2 - 8.5, elapsed time in second tank is 3.9 hours, waters then flow to a neutralization tank.

b. Chromic Acid - Rinses are treated in a flow through batch two tank system. Sulfur Dioxide gas is injected into a 700 Gal. tank at a PH of two, elapsed time in this tank is 3.9 hours. Waters then flow to second 700 gal. tank where the PH is raised to 8.2 - 8.5, elapsed time in second tank is 3.9 hours. Waters then flow to a neutralization tank.

c. Neutralization - Tank capacity is 7000 gal. and PH is controlled at 8.2 - 8.5 elasped time in tank is 4.8 hours. Waters flow from neutralization tank to a deep bed filter. (All other biodegradable rinses flow directly into this tank)

d. Deep Bed Filter Uses 15 micron filter paper with automatic paper advance. Paper and sludge are stored in barrels. Waters flow directly to City sanitary sewer.

e. Treatment System design capability is 50,000 gal/day.

IV. DESCRIPTION OF HAZARDOUS WASTES

A. EPA HAZARDOUS WASTE NUMBER — Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE — For each quantity listed in column B, enter the unit of measure in which the quantity is expressed, using the appropriate codes:

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

* Note: For liquids, the units of measure must be converted into either gallons or liters before entering into the capacity of the waste.

D. PROCESSES

1. PROCESS CODES:
For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.
For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.
Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV *(shown in line numbers X-1, X-2, X-3, and X-4 below)* — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K054	900	P	T03 D80	
X-2	D002	400	P	T03 D80	
X-3	D001	100	P	T03 D80	
X-4	D002				included with above

 CONTINUE ON PAGE 3

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

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EPA I.D. NUMBER	FOR OFFICIAL USE ONLY
NOCD 9 5 5 9 5 9 3 1	DUP 3 2 DUP
W 1 4 0 0 5 4 9	

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	F001	13,000 000	P	S01	Disposed of by Licensed Transporter
2	F002	21,800 000	P	S01	Disposed of by Licensed Transporter
3	F003	3,625 000	P	S02	Disposed of by Licensed Transporter
4	F005	18,810 000	P	S02	Disposed of by Licensed Transporter
5	F006	12,350 000	P	S01	Disposed of by Licensed Transporter
6	~~F017~~	~~8,000 000~~	~~P~~	~~S01~~	~~Disposed of by Licensed Transporter~~
7	~~F026~~	~~NONE~~	P		Totally Destroyed in Plating Waste Treatment System
8	~~F027~~	~~NONE~~	P		Totally Destroyed in Plating Waste Treatment System
9	U002	362 000	P	S02	Disposed of by Licensed Transporter
10	U154	11,610 000	P	S02	Disposed of by Licensed Transporter
11	U159	6,700 000	P	S02	Disposed of by Licensed Transporter
12	U220	500 000	P	S02	Disposed of by Licensed Transporter
13	U226	19,440 000	P	S01	Disposed of by Licensed Transporter
14	U228	13,000 000	P	S01	Disposed of by Licensed Transporter
15	U239	3,625 000	P	S02	Disposed of by Licensed Transporter
16	~~U229~~	~~2,360 000~~	~~P~~	~~S01~~	~~Disposed of by Licensed Transporter~~
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

EPA Form 3510-3 (6-80)

CONTINUE ON REVERSE

(enter "A", "B", "C", etc. behind the "3" to identify photocopied pages)

Continued from the front.

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.

EPA I.D. NO. (enter from page 1)

I N D 0 0 9 5 4 9 5 9 3 3 6

V. FACILITY DRAWING

F6 A55

F6 A56

LONGITUDE

4 1 3 4 4 4 0 | 0 8 5 4 8 4 0 0

VIII. FACILITY OWNER

A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. (area code & no.)
JOHNSON CONTROLS, INC.	414-276-9200

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE
507 E. Michigan St.	G Milwaukee	WI	53201

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, 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. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)	B. SIGNATURE	C. DATE SIGNED
Harold L. Brooks	Harold L. Brooks	10-27-80

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, 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. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)	B. SIGNATURE	C. DATE SIGNED
Harry A. Mihm	H. A. Mihm	10/27/80

CONTINUE ON PAGE 5

REF #7

Method of Determining Annual Amount of Sludge

1. Paper area used as basis for sample: 48"L x 12"W = 576 sq.in.
2. Avg. thickness of sludge and paper .0625.
3. 576 sq.in. x .0625 = 36 cu.in. of sludge and paper/lin.ft. of paper.
4. Gallonage determination - 231 cu.in./gal. or 1 gal. of sludge/6.5 lin.ft. of paper.
5. paper roll size - 600 ft./roll of paper.
6. Gal. of sludge/roll of paper - 92.3 gal.
7. Paper usage - avg. 21 roll/yr.
8. Annual amount of sludge and paper - 1938 gal.yr.

S. D. Leedy

Sludge

200 gals = 4 drums = 1 cu yd = 1 ton

1938 gals = 38.76 drums = 262 cu ft = 10 tons

6 mil gals/year for 23 years

→ 120,000 drums = 30,000 tons

→ 25,000 gals = 500 drums = 125 cu yds

125 x 23 years = ~~[illegible]~~ 2875 cu yds

INDIANA STREAM POLLUTION CONTROL BOARD MONTHLY MONITORING (DMR-1 FORM)
REPORT FOR SPC-15 OR NPDES DISCHARGE PERMITS

SHEET 1 OF 1

Johnson Controls, Inc.
Penn Division
1302 E. Monroe St.
Goshen, Indiana 46525

PLEASE COMPLETE AND SUBMIT ONE COPY AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 28TH OF THE FOLLOWING MONTH.

IN 0000761 (1-7) PERMIT NUMBER

001 (8-10) OUTFALL/FAC. NO.

0381 (11-12)(13-14) MO. YR.

ENTER: 1 for NPDES, 2 for SPC-15 — 1 (15)

ENTER: 1 - INDUSTRY, 4 - FEDERAL, 5 - WATER SUPPLY — 1 (68)

EFFLUENT CHARACTERISTICS		FLOW	pH		Sus Solids		Oil & Grease		Temperature	
EFFLUENT NO. (16-21)		Q50050	C00400		00457	00457	00050	00050	C000111	
SAMPLE TYPE (22-23)	Permit Cond.	NA	GR		GR	GR	GR	GR	GR	
	Monitored	NA	GR		GR	GR	GR	GR	GR	
FREQUENCY (24-28)	Permit Cond.	1/31	1/31		1/31	1/31	1/31	1/31	1/31	
	Monitored	1/31	1/31		1/31	1/31	1/31	1/31	1/31	
EFFLUENT LIMITATIONS	Daily Avg. (24-36)		6.0-							
	Daily Max. (37-44)		9.0		15		10			
DATE / UNITS		MGD	HI	LOW	mg/l	lb/day	mg/l	lb/day		
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25		0.079	8.2		2	1.3	1	0.66	72	
26										
27										
28										
29										
30										
31										
AVERAGE (29-36)		0.079			2	1.3	1	0.66	72	
HIGHEST VALUE OF MONTH (37-44)			8.2							
LOWEST VALUE OF MONTH (45-52)										
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)		0	0		0	0	0	0		

Stanley N. Leedy
(SIGNATURE OF CERTIFIED OPERATOR (55)

[signature]
(60) (SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR, AUTHORIZED AGENT)

219-533-2111
(PHONE NO.)

634
(CERTIFICATION NO.) (56-59)

4-8-81
(DATE SUBMITTED) (61-66)

INDIANA STREAM POLLUTION BOARD MONTHLY MONITORING REPORT FOR SPC-15 OR NPDES PERMITS

Penn Div. Johnson Controls
1302 E. Monroe St.
Goshen, Indiana 46525

0000761	001	7 /84	1-NPDES	1-INDUSTRY
PERMIT NO	OUTFALL	MO/YR		

Effluent Characteristics		Flow	pH	Susp Solids
Effluent No.		C50050	C00400	C00457
Sample Type	Permit Cond	NA	GR	GR
	Monitored	NA	GR	GR
Frequency	Permit Cond	1/31	1/31	1/31
	Monitored	1/31	1/31	1/31
Effluent	Daily ave	none	6.0	
Liminations	Daily max	none	9.0	15
	Date Units	mgd	unit	mg/l
	1	-	-	-
	2	-	-	-
	3	-	-	-
	4	-	-	-
	5	-	-	-
	6	-	-	-
	7	-	-	-
	8	-	-	-
	9	-	-	-
	10	-	-	-
	11	-	-	-
	12	-	-	-
	13	-	-	-
	14	-	-	-
	15	-	-	-
	16	-	-	-
	17	-	-	-
	18	-	-	-
	19	-	-	-
	20	-	-	-
	21	-	-	-
	22	-	-	-
	23	-	-	-
	24	-	-	-
	25	-	-	-
	26	-	-	-
	27	-	-	-
	28	-	-	-
	29	-	-	-
	30	0.079	7.6	4.00
	31	-	-	-
Average		0.080		4.00
Highest Value of Month		0.079	7.6	4.00
Lowest Value of Month		0.079	7.6	4.00
# Time Over Limits		0.000	0.0	0.00

Stanley M. Leedy
Certified Operator

R. D. Hammond
Authorized Agent

Phone: 219/533-2111 Cert #: 0634 Date: 8/13/84

INDIANA STREAM POLLUTION BOARD MONTHLY MONITORING
REPORT FOR SPC-15 OR NPDES PERMITS

Penn Div. Johnson Controls
1302 E. Monroe St.
Goshen, Indiana 46525

0000761	001	7 /84	1-NPDES	1-INDUSTRY
PERMIT NO	OUTFALL	MO/YR		

Effluent Characteristics		Oil & Grease	Temperature
Effluent No.		C00050	C00111
Sample Type	Permit Cond	GR	GR
	Monitored	GR	GR
Frequency	Permit Cond	1/31	1/31
	Monitored	1/31	1/31
Effluent Liminations	Daily ave		
	Daily max		
	Date Units	mg/l	F
	1	-	-
	2	-	-
	3	-	-
	4	-	-
	5	-	-
	6	-	-
	7	-	-
	8	-	-
	9	-	-
	10	-	-
	11	-	-
	12	-	-
	13	-	-
	14	-	-
	15	-	-
	16	-	-
	17	-	-
	18	-	-
	19	-	-
	20	-	-
	21	-	-
	22	-	-
	23	-	-
	24	-	-
	25	-	-
	26	-	-
	27	-	-
	28	-	-
	29	-	-
	30	1.00	75.00
	31	-	-
Average		1.00	75.00
Highest Value of Month		1.00	75.00
Lowest Value of Month		1.00	75.00
# Time Over Limits		0.00	0.00

1980 CENSUS OF POPULATION U.S. D.O.C.

Table 5. Population of Places: 1960 to 1980—Con.

[For changes in boundaries of incorporated places since 1970, see table 4. For meaning of symbols, see Introduction]

Incorporated Places Census Designated Places	Counties	1980	1970	1960
Fremont town	Steuben	1 180	1 043	937
French Lick town	Orange	2 265	2 059	1 954
Fulton town	Fulton	393	372	410
Galena (CDP)	Floyd	1 186	...	...
Galveston town	Cass	1 822	1 284	1 111
Garrett city	De Kalb	4 874	4 715	4 364
Gary city	Lake	151 953	175 415	178 320
Gas City city	Grant	6 370	5 742	4 469
Gaston town	Delaware	1 150	928	801
Geneva town	Adams	1 430	1 100	1 053
Gentryville town	Spencer	299	281	297
Georgetown town	Floyd	1 494	1 273	643
Glenwood town	Total	370	452	382
	Fayette (pt. in)	124	151	114
	Rush (pt. in)	246	301	268
Goodland town	Newton	1 200	1 176	1 202
Goshen city	Elkhart	19 665	17 871	13 718
Gosport town	Owen	729	692	646
Grabill town	Allen	658	570	495
Grandview town	Spencer	670	696	599
Greencastle city	Putnam	8 403	8 852	8 506
Greendale town	Dearborn	3 795	3 783	2 861
Greenfield city	Hancock	11 439	9 986	9 049
Greensboro town	Henry	175	225	232
Greensburg city	Decatur	9 254	8 620	7 492
Greens Fork town	Wayne	426	444	474
Greentown town	Howard	2 265	1 870	1 266
Greenville town	Floyd	537	611	453
Greenwood city	Johnson	19 327	11 869	7 169
Griffin town	Posey	192	178	212
Griffith town	Lake	17 026	18 168	9 483
Grissom AFB (CDP)	Total	4 676	4 963	...
	Cass (pt. in)	–	...	...
	Miami (pt. in)	4 676	4 963	...
Hagerstown town	Wayne	1 950	2 059	1 730
Hamilton town	Total	587	537	380
	De Kalb (pt. in)	121	98	...
	Steuben (pt. in)	466	439	380
Hamlet town	Starke	738	761	688
Hammond city	Lake	93 714	107 983	111 698
Hanover town	Jefferson	4 054	3 018	1 170
Hardinsburg town	Washington	298	263	218
Harmony town	Clay	613	...	...
Hartford City city	Blackford	7 622	8 207	8 053
Hartsville town	Bartholomew	379	434	399
Haubstadt town	Gibson	1 389	1 171	1 029
Hazleton town	Gibson	368	416	507
Hebron town	Porter	2 696	1 624	1 401
Henryville (CDP)	Clark	1 132	...	...
Highland town	Lake	25 935	24 947	16 284
Hillsboro town	Fountain	561	505	517
Hobart city	Lake	22 987	21 485	18 680
Holland town	Dubois	683	662	661
Holton town	Ripley	487	...	...
Homecroft town	Marion	831	964	...
Hope town	Bartholomew	2 185	1 603	1 489
Hudson town	Steuben	447	464	428
Hudson Lake (CDP)	La Porte	1 347	1 134	...
Huntertown town	Allen	1 265	775	...
Huntingburg city	Dubois	5 376	4 794	4 146
Huntington city	Huntington	16 202	16 217	16 185
Hymera town	Sullivan	1 054	907	1 015
Indianapolis city	Marion	700 807	736 856	476 258
Indian Heights (CDP)	Howard	4 277	...	...
Indian Village town	St. Joseph	151	86	82
Ingalls town	Madison	909	888	873
Jamestown town	Total	924	938	827
	Boone (pt. in)	924	938	827
	Hendricks (pt. in)	–	...	...
Jasonville city	Greene	2 497	2 335	2 436
Jasper city	Dubois	9 097	8 641	6 737
Jeffersonville city	Clark	21 220	20 008	19 522
Jonesboro town	Grant	2 279	2 466	2 260
Jonesville town	Bartholomew	213	202	196
Judson town	Parke	80	63	80
Kempton town	Tipton	410	469	480
Kendallville city	Noble	7 299	6 838	6 765
Kennard town	Henry	441	518	466
Kentland town	Newton	1 936	1 864	1 783
Kewanna town	Fulton	711	614	683
Kingman town	Fountain	566	530	461
Kingsbury town	La Porte	329	314	281
Kingsford Heights town	La Porte	1 618	1 200	1 276
Kirklin town	Clinton	662	736	767
Knightstown town	Henry	2 325	2 456	2 496
Knightsville town	Clay	763	788	722
Knox city	Starke	3 674	3 519	3 458
Kokomo city	Howard	47 808	44 042	47 197
Koontz Lake (CDP)	Total	1 436	...	...
	Marshall (pt. in)	166	...	...
	Starke (pt. in)	1 270	...	...
Kouts town	Porter	1 619	1 388	1 007
Laconia town	Harrison	58	64	75
La Crosse town	La Porte	713	696	632
Ladoga town	Montgomery	1 151	1 099	974
Lafayette city	Tippecanoe	43 011	44 955	42 330
La Fontaine town	Wabash			
Lagrange town	Lagrange			
Lagro town	Wabash			
Lake Hart town	Morgan			
Lake Station city	Lake			
Lakeville town	St. Joseph			
Lanesville town	Harrison			
La Paz town	Marshall			
Lapel town	Madison			
La Porte city	La Porte			
Larwill town	Whitley			
Laurel town	Franklin			
Lawrence city	Marion			
Lawrenceburg city	Dearborn			
Leavenworth town	Crawford			
Lebanon city	Boone			
Leesburg town	Kosciusko			
Lewisville town	Henry			
Liberty town	Union			
Ligonier city	Noble			
Linden town	Montgomery			
Linton city	Greene			
Little York town	Washington			
Livonia town	Washington			
Lizton town	Hendricks			
Logansport city	Cass			
Long Beach town	La Porte			
Loogootee city	Martin			
Losantville town	Randolph			
Lowell town	Lake			
Lynhurst town	Marion			
Lynn town	Randolph			
Lynnville town	Warrick			
Lyons town	Greene			
Mackey town	Gibson			
Macy town	Miami			
Madison city	Jefferson			
Marengo town	Crawford			
Marion city	Grant			
Markle town	Total			
	Huntington (pt. in)			
	Wells (pt. in)			
Markleville town	Madison			
Marshall town	Parke			
Martinsville city	Morgan			
Matthews town	Grant			
Mauckport town	Harrison			
Mecca town	Parke			
Medaryville town	Pulaski			
Medora town	Jackson			
Mellott town	Fountain			
Mentone town	Kosciusko			
Meridian Hills town	Marion			
Merom town	Sullivan			
Merrillville town	Lake			
Urban part				
Michiana Shores town	La Porte			
Michigan City city	La Porte			
Michigantown town	Clinton			
Middlebury town	Elkhart			
Middletown town	Henry			
Milan town	Ripley			
Milford town	Decatur			
Milford town	Kosciusko			
Millersburg town	Elkhart			
Millhousen town	Decatur			
Milltown town	Total			
	Crawford (pt. in)			
	Harrison (pt. in)			
Milton town	Wayne			
Mishawaka city	St. Joseph			
Mitchell city	Lawrence			
Modoc town	Randolph			
Monon town	White			
Monroe town	Adams			
Monroe City town	Knox			
Monroeville town	Allen			
Monterey town	Pulaski			
Montezuma town	Parke			
Montgomery town	Daviess			
Monticello city	White			
Montpelier city	Blackford			
Mooreland town	Henry			
Moores Hill town	Dearborn			
Mooresville town	Morgan			
Morgantown town	Morgan			
Morocco town	Newton			
Morristown town	Shelby			
Mount Auburn town	Wayne			
Mount Ayr town	Newton			
Mount Carmel town	Franklin			
Mount Etna town	Huntington			
Mount Summit town	Henry			
Mount Vernon city	Posey			
Mulberry town	Clinton			
Muncie city	Delaware			
Munster town	Lake			

JEFFERSON
ELKHART
GOSHEN
Norton Lake
Butts Lake
Goshen College
Goshen Dam
Township Jr High Sch
Model Sch
Rensberger Sch
County Fairgrounds
Radio Tower (WKAM)
Elkhart Prairie Cem
Bethany High Sch
Waterford Mills
Violett Cem
Riverdale Sch
Chamberlain Sch
Parkside Sch
Chandler Sch
High Sch
Athletic Field
Gasoline
Gorham
Substations
Radio Tower
Studebaker Cem
Trailer Park
Morris Cem
Cripe Cem
Rock Run
Creek
Rock Run
Creek
RIVER
INTERSTATE
HOOVER
BOYER
DITCH
INDIANA
CONRAIL
HORN
4 TRACKS

REF #12

DATE 12/11/84 TDD # 8307-4E

TIME 9:35 AM

SITE JOHNSON CONTROLS, INC.

CONTACT DON SCHNOEBELEN PHONE (219) 534-1404

ELKHART COUNTY HEALTH DEPT

2400 ELKHART Rd, GOSHEN, IND.

SUBJECT ROCK RUN CREEK

THE CREEK IS NOT USED FOR ANY INDUSTRIAL OR COMMERCIAL PURPOSES. THERE HAS BEEN NO INDICATION OF DUMPING IN THE CREEK.

Richard Dagnall

Date 12/11/84

four-mile radius as well as transients such as workers in factories, offices, restaurants, motels, or students. It excludes travelers passing through the area. If aerial photography is used in making the count, assume 3.5 individuals per dwelling unit. Select the highest value for this rating factor as follows:

DISTANCE TO POPULATION FROM HAZARDOUS SUBSTANCE

Population	0–4 miles	0–1 mile	0–½ mile	0–¼ mile
0	0	0	0	0
1 to 100	9	12	15	18
101 to 1,000	12	15	18	21
1,001 to 3,000	15	18	21	24
3,001 to 10,000	18	21	24	27
More than 10,000	21	24	27	30

Distance to sensitive environment is an indicator of the likelihood that a region that contains important biological resources or that is a fragile natural setting would suffer serious damage if hazardous substances were to be released from the facility. Assign a value from Table 10.

Land use indicates the nature and level of human activity in the vicinity of a facility. Assign highest applicable value from Table 13.

6.0 Computing the Migration Hazard Mode Score, S_M

To compute S_M, complete the work sheet (Figure 10) using the values of S_{gw}, S_{sw} and S_a obtained from the previous sections.

7.0 Fire and Explosion

Compute a score for the fire and explosion hazard mode, S_{FE}, when either a state or local fire marshall has certified that the facility presents a significant fire or explosion threat to the public or to sensitive environments or there is a demonstrated fire and explosion threat based on field observations (e.g., combustible gas indicator readings). Document the threat.

7.1 Containment. *Containment* is an indicator of the measures that have been taken to minimize or prevent hazardous substances at the facility from catching fire or exploding. Normally it will be given a value of 3 on the work sheet (Figure 11). If no hazardous substances that are individually ignitable or explosive are present and those that may be hazardous in combination are segregated and isolated so that they cannot come together to form incompatible mixtures, assign this factor a value of 1.

7.2 Waste Characteristics. *Direct evidence* of ignitability or explosion potential may exist in the form of measurements with appropriate instruments. If so, assign this factor a value of 3; if not, assign a value of 0.

TABLE 13.—VALUES FOR LAND USE (AIR ROUTE)

Assigned value—	0	1	2	3
Distance to Commercial-Industrial	>1 mile	½ to 1 mile	¼ to ½ mile	<¼ mile.
Distance to National/State Parks, Forests, Wildlife Reserves, and Residential Areas.	>2 miles	1 to 2 miles	½ to 1 mile	<½ mile.
Distance to Agricultural Lands (in Production within 5 years):				
Ag land	>1 mile	½ to 1 mile	¼ to ½ mile	<¼ mile.
Prime Ag Land [1]	>2 miles	1 to 2 miles	½ to 1 mile	<½ mile.
Distance to Historic/Landmark Sites (National Register of Historic Places and National Natural Landmarks).				Within view of site or if site is subject to significant impacts.

[1] Defined in the Code of Federal Regulations, 7 CFR 657.5, 1981.

	S	S^2
Groundwater Route Score (S_{gw})	0	0
Surface Water Route Score (S_{sw})	0	0
Air Route Score (S_a)		
$S_{gw}^2 + S_{sw}^2 + S_a^2$		0
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		0
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		0

FIGURE 10
WORKSHEET FOR COMPUTING S_M

IN-0186-14

DATE 9-14-84 TDD # 8307-04E

TIME 11am

SITE Johnson Controls

CONTACT Doug Perry PHONE (219) 533-8621

111E Jefferson

Goshens Utilities - City Sewer & Water Info on City Water Resources. 500gpm

SUBJECT How many wells? 7 wells (2 standby #10 & 11, ~160') →

How large of any any do U serve? →

# of people

What fm (aquifer) do you draw from

Private Well logs. Health Dept

Whr/ does Wolcottville get its water

~ 1/2 city / 1/2 private

depth to aquifer? ~6000 accounts

~ city water available to everyone

intakes? ~ extends out

yield? ~ 25 to 50' average private well depth

On city water since 1934. All wells ~50' apart.

Elkhart River Use

33 to Goshen to new overpass. Follow detour State Rd 15 go over 1 block east?

5th street Turn Left on 5th for 4 blocks

across RR. Gate near back.

Mr. Perry said he'd answer ?s I have

so meet him Tues or Wed

Date: Peggy

IN-0186-15

ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

International Specialists in the Environment

M E M O R A N D U M

DATE: April 11, 1985

TO: File

FROM: Richard Dagnall RD

SUBJECT: HRS Scoring of Johnson Controls, Inc.
Indiana, TDD #R05-8307-4E, IN0186
Goshen, Johnson Controls, Inc.

There is no permanent on-site storage of hazardous waste at Johnson Controls, Inc. The site produces wastes containing various heavy metals. The wastes are treated on the site using cyanide destruction, chrome reduction, pH adjustment and filtration. The wastes end up in a sludge form. These sludges, as well as any filter paper used, are stored in drums in a separate building. The building has a collection system in case of a spill. The drums are then sent to an approved landfill.

The site is under RCRA interim status for their part A application, Permit No. IND009549593. They are also covered by NPDES Permit No. 0000761 and Air Permit No. 201-06-85-0596.

Because the site has interim status and because all wastes at the facility are handled pursuant to federal permits, the site is not eligible for the HRS.

DR:3X

recycled paper