KPDES FORM 1

AI# 1780

KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

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PERMIT APPLICATION

This is an application to: (check one)

- ☐ Apply for a new permit.
- ☒ Apply for reissuance of expiring permit.
- ☐ Apply for a construction permit.
- ☐ Modify an existing permit.
  Give reason for modification under Item II.A.

A complete application consists of this form and one of the following:
Form A, Form B, Form C, Form F, or Form SC

For additional information contact:
KPDES Branch (502) 564-3410

200-

I. FACILITY LOCATION AND CONTACT INFORMATION	AGENCY USE	0	0	7	8	9	6	4

A. Name of Business, Municipality, Company, Etc. Requesting Permit
Ken-Dec, Inc.

B. Facility Name and Location	C. Primary Mailing Address (all facility correspondence will be sent to this address). **Include owner's mailing address (if different) in D.**
Facility Location Name: Ken-Dec, Inc.	Facility Contact Name and Title: Mr. ☒ Ms. ☐ ~~Chris K. Shutters~~ Carlos Pointer Environmental Manager
Facility Location Address (i.e. street, road, etc., **not P.O. Box**): 1145 South Dixie Street	Mailing Address: P.O. Box 129
Facility Location City, State, Zip Code: Horse Cave, Ky 42749	Mailing City, State, Zip Code: Horse Cave, Ky 42749
D. Owner's name (if not the same as in part A and C): Charles E. Moeller	Facility Contact Telephone Number: 270-786-2111
Owner's Mailing Address: 220 South Elizabeth Street Spencerville, Ohio 45887	Owner's Telephone Number (if different): 419-647-4191

II. FACILITY DESCRIPTION

A. Provide a brief description of activities, products, etc: Decorative zinc diecasting, Die casting, De-burring and polishing, Electroplating (copper cyanide, acid copper, nickel and chromium) and Paint. Have added a Trivalent Chrome bath to our Electroplating operation on the rechrome line and two Satin finish robots to the polishing line.

B. Standard Industrial Classification (SIC) Code and Description

Principal SIC Code & Description:	3364 (non-ferrous die-casting)		
Other SIC Codes:	3471 (electroplating)	3479 (painting)	

III. FACILITY LOCATION

A. Attach a U.S. Geological Survey 7 ½ minute quadrangle map for the site. (See instructions)

B. County where facility is located: Hart	City where facility is located (if applicable): Horse Cave
C. Body of water receiving discharge: Karst terrain to hidden cave	
D. Facility Site Latitude (degrees, minutes, seconds): 37 degrees 9 minutes 55 seconds North	Facility Site Longitude (degrees, minutes, seconds): 85 degrees 55 minutes 12 seconds West
E. Method used to obtain latitude & longitude (see instructions):	Topo map coordinates

F. Facility Dun and Bradstreet Number (DUNS #) (if applicable): 04-906-4017

IV. OWNER/OPERATOR INFORMATION

A. Type of Ownership:
☐ Publicly Owned ☒ Privately Owned ☐ State Owned ☐ Both Public and Private Owned ☐ Federally owned

B. Operator Contact Information (See instructions)

Name of Treatment Plant Operator: Carlos Poynter / Chris Shutters	Telephone Number: 270-786-2111
Operator Mailing Address (Street): P.O. Box 129	
Operator Mailing Address (City, State, Zip Code): Horse Cave, Ky 42743	
Is the operator also the owner? Yes ☐ No ☒	Is the operator certified? If yes, list certification class and number below. Yes ☐ No ☒
Certification Class:	Certification Number:

V. EXISTING ENVIRONMENTAL PERMITS

Current NPDES Number: KY0078964	Issue Date of Current Permit: January 1, 2006	Expiration Date of Current Permit: June 30, 2009
Number of Times Permit Reissued:	Date of Original Permit Issuance:	Sludge Disposal Permit Number:
Kentucky DOW Operational Permit #:	Kentucky DSMRE Permit Number(s):	

Which of the following additional environmental permit/registration categories will also apply to this facility?

CATEGORY	EXISTING PERMIT WITH NO.	PERMIT NEEDED WITH PLANNED APPLICATION DATE
Air Emission Source	S-95-253, S096-152, S95-252, C-92-160, 0-86-19	
Solid or Special Waste		
Hazardous Waste - Registration or Permit	KYD049064017	

VI. DISCHARGE MONITORING REPORTS (DMRs)

KPDES permit holders are required to submit DMRs to the Division of Water on a regular schedule (as defined by the KPDES permit). Information in this section serves to specifically identify the name and telephone number of the DMR official and the DMR mailing address (if different from the primary mailing address in Section I.C).

A. DMR Official (i.e., the department, office or individual designated as responsible for submitting DMR forms to the Division of Water):	Chris Shutters / Environmental Manager
DMR Official Telephone Number:	270-786-2111

B. DMR Mailing Address:
- Address the Division of Water will use to mail DMR forms (if different from mailing address in Section I.C), or
- Contact address if another individual, company, laboratory, etc. completes DMRs for you; e.g., contract laboratory address.

DMR Mailing Name:	Ken-Dec, Inc.
DMR Mailing Address:	P.O.Box 129
DMR Mailing City, State, Zip Code:	Horse Cave, ky 42743

VII. APPLICATION FILING FEE

KPDES regulations require that a permit applicant pay an application filing fee equal to twenty percent of the permit base fee. Please examine the base and filing fees listed below and in the Form 1 instructions and enclose a check payable to "Kentucky State Treasurer" for the appropriate amount (for permit renewals, please include the KPDES permit number on the check to ensure proper crediting). Descriptions of the base fee amounts are given in the "General Instructions."

Facility Fee Category:	Filing Fee Enclosed:
Small Non-POTW NPIND	$ 200.00

VIII. CERTIFICATION

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

NAME AND OFFICIAL TITLE (type or print):	TELEPHONE NUMBER (area code and number):
Mr. ☒ Ms. ☐ Dave Becker (Plant Manager)	270-786-2111
SIGNATURE Dave Becker	DATE: 12/29/08

Return completed application form and attachments to: **KPDES Branch, Division of Water, Frankfort Office Park, 14 Reilly Road, Frankfort, KY 40601. Direct questions to: KPDES Branch at (502) 564-3410.**

KPDES FORM F

AI 1780

KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

PERMIT APPLICATION

A complete application consists of this form and Form 1.
For additional information, Contact KPDES Branch, (502) 564-3410.

I. OUTFALL LOCATION	AGENCY USE	0	0	7	8	9	6	4

For each outfall list the latitude and longitude of its location to the nearest 15 seconds and name the receiving water.

A. Outfall Number	B. Latitude			C. Longitude			D. Receiving Water (name)
001(sinkhole behind plant)	37deg. N	10'	13"	85deg. W	55'	06"	hidden river into green river
002(between Ken-Dec and Dart)	37 deg. N	10'	13"	85deg. W	55'	06"	hidden river into green river)
003(parking lot dry well)	37deg. N	10'	13"	85deg. W	55'	06"	hidden river into green river)

II. IMPROVEMENTS

A. Are you now required by any federal, state, or local authority to meet any implementaiton schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

1. Identification of Conditions, Agreements, Etc.	2. Affected Outfalls No.	Source of Discharge	3. Brief Description of Project	4. Final Compliance Date a. req.	b. proj.
N/A					

B. You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

III. SITE DRAINAGE MAP

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfall(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each know past or present areas used for outdoor storage or disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage of disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which receive storm water discharges from the facility.

IV. NARRATIVE DESCRIPTION OF POLLUTANT SOURCES

A. For each outfall, provide an estimate of the area (include units) of impervious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)	Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)
001 002 003	106, 100F (See Map)	451, 712 F+2			

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas; and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

Scrap metal parts are stored outside with no containment other than being wrapped in plastic on all sides except the bottom of the container tub. Flammables are stored outside with no containment. Other equipment is stored outside from time to time with no containment for storm water runoff. Buffing room (polishing department) dirt hopper was stored outside until 2008 with no containment other than a strapped tarp over the top to keep out rain water. Qunch oil and trash hopper have secondary containment. All rain water runoff is either pumped to water treatment for disposal or shipped off site for disposal.

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall Number	Treatment	List Codes from Table F-1
001,002,003	All hazardous waste storage areas have secondary containment. Wastewater treatment has secondary containment. the loading dock serves as secondary containment for the unloading of hazardous chemicals and flammables.	2C, 1S, 4C,5R

V. NON-STORM WATER DISCHARGES

A. I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of non-storm water discharges, and that all non-storm water discharges from these outfall(s) are identified in either an accompanying Form C or Form SC application for the outfall.

Name and Official Title (type or print)	Signature	Date Signed
Dave Becker (plant Manager)	Dave Becker	12/29/08

B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

Resources Consultants, Inc. shot grades and visually evaluated drainage. Drainage modifications installed in 1988. The Evergreen Group, Inc. visually inspected evaluated outfall for presence of nonstormwater discharges. Verified flow schematics October 2, 1991.

VI. SIGNIFICANT LEAKS OR SPILLS

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

None

VII. DISCHARGE INFORMATION

A,B,C, & D: See instructions before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided. Tables F-1, F-2, and F-3 are included on separate pages.

E: Potential discharges not covered by analysis - is any toxic pollutant listed in Table F-2, F-3, or F-4, a substance which you currently use or manufacture as an intermediate or final product or by product.

☒ Yes (list all such pollutants below) ☐ No (go to Section IX)

F-2
Oil & Grease
F-3
Total Chromium, Total Nickel, Total Copper, Total Zinc, Total Lead, Total Cyanide
F-4 Formaldehyde (no longer used but may still be present in some way due to past use)

VIII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ Yes (list all such results below) ☒ No (go to Section IX)

IX. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in item VII performed by a contract laboratory or consulting firm?

☒ Yes (list the name, address and telephone number of, and pollutants analyzed by each such laboratory or firm below; use additional sheets if necessary).

☐ No (go to Section IX)

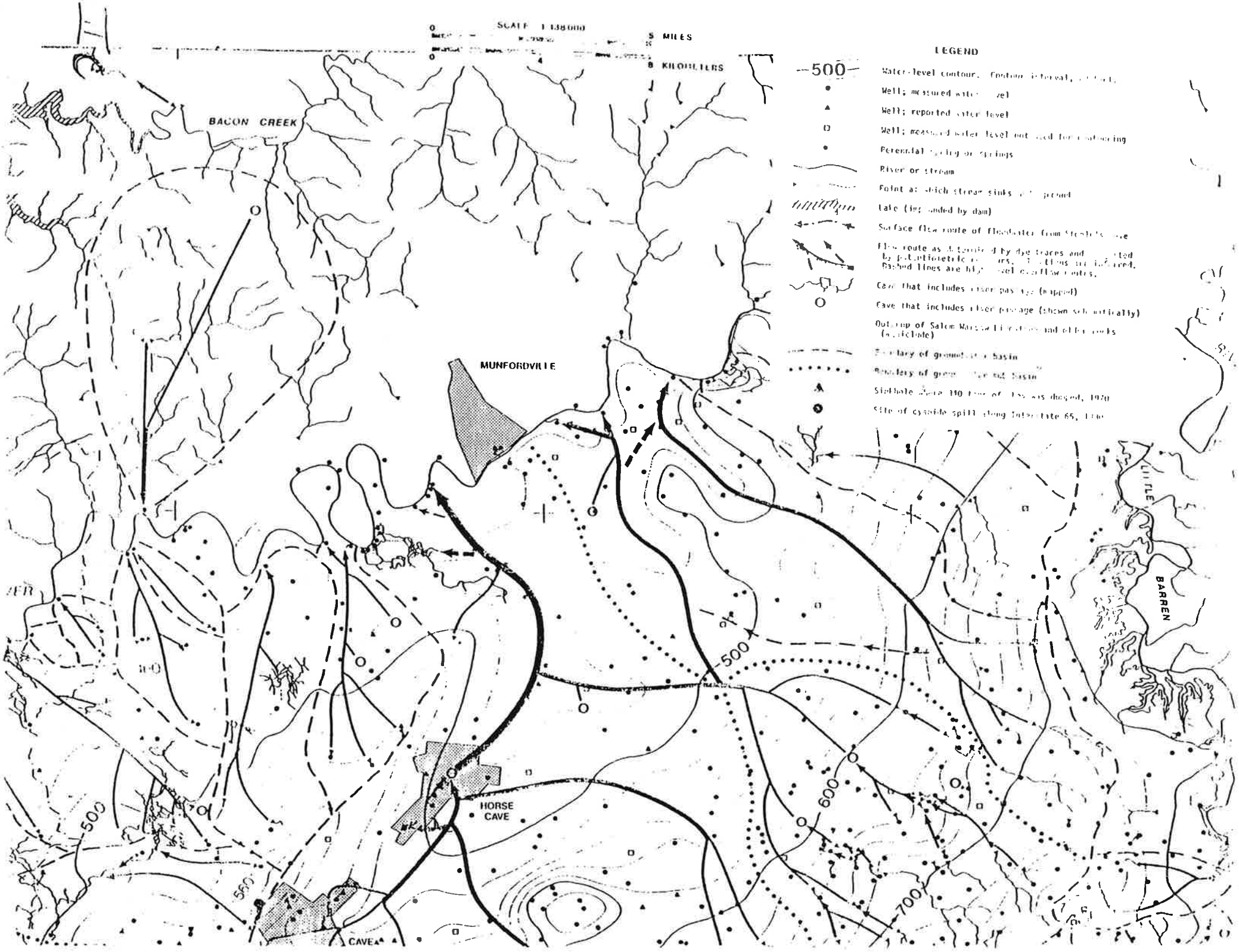
A. Name	B. Address	C. Area Code & Phone No.	D. Pollutants Analyzed
SMR Laboratories, Inc.	200 North First Street Central City, Ky 42330	270-754-3737	Oil and Grease Total Copper Total Lead Total Zinc

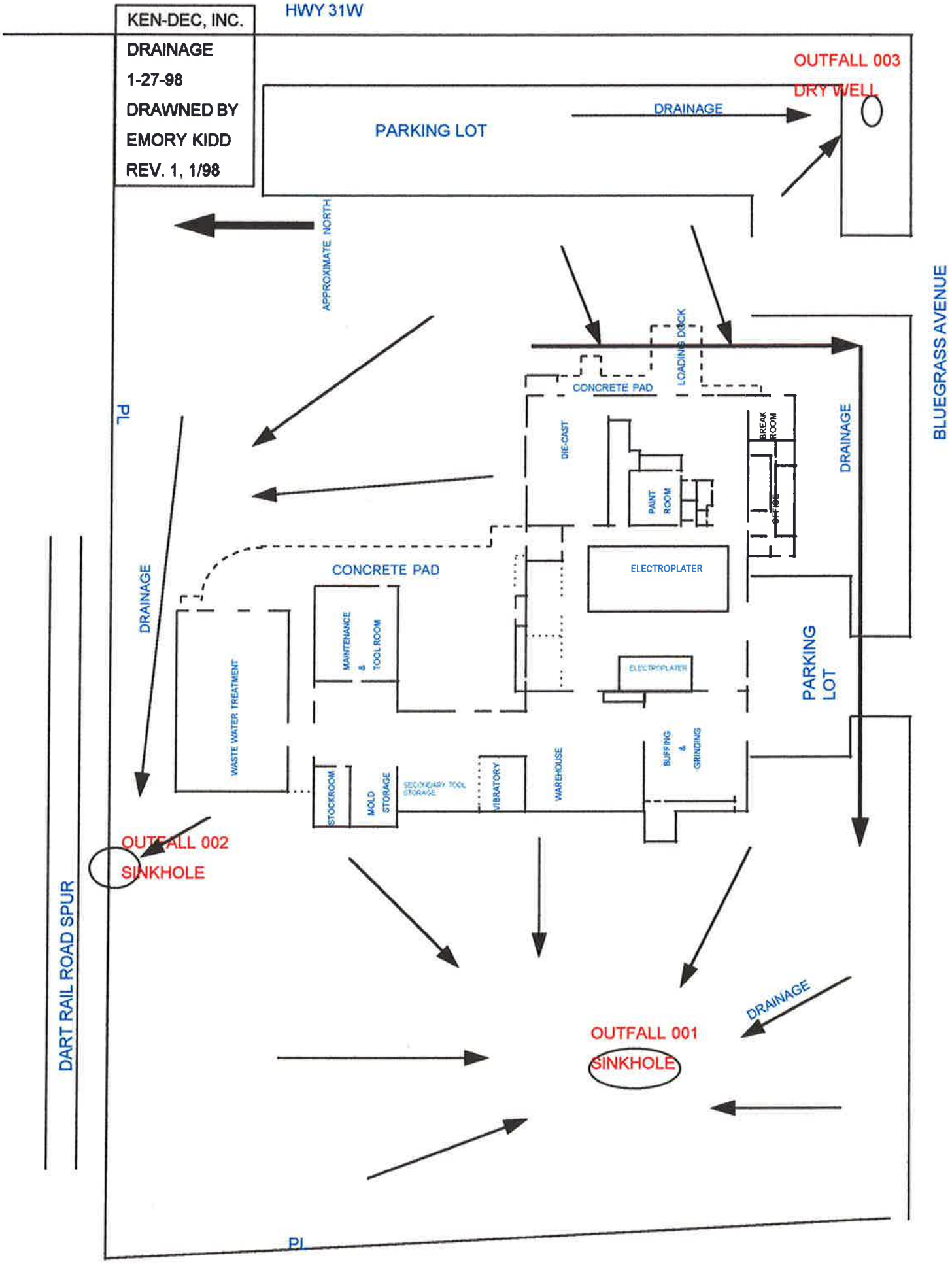
X. CERTIFICATION

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

NAME & OFFICIAL TITLE (type or print)	AREA CODE AND PHONE NO.
Mr. ☒ Ms. ☐ Dave Becker (Plant Manager)	270-786-2111
SIGNATURE	**DATE SIGNED**
Dave Becker	12/29/08

Radio Tower
Horse Cave
Friendship Ch
Cem
Hidden River Cave
BM 632
Water Tank
Knob
Horse Cave Lookout Tower
BM 634
Substation
Sewage Disposal
Pine Knob
Drive-in Theater
BM 623
Our Lady of the Caves Ch
Cem
Caverna Hospital
Creacy Lake
722


SCALE 1:138000
0
5 MILES
0
4
8 KILOMETERS
LEGEND
500
Water-level contour. Contour interval,
Well; measured water level
Well; reported water level
Well; measured water level not used for contouring
Perennial spring or springs
River or stream
Point at which stream sinks
Lake (impounded by dam)
Surface flow route of floodwater from Steele's Cave
Flow route as determined by dye traces and
by potentiometric
Dashed lines are high level overflow routes.
Cave that includes river passage (mapped)
Cave that includes river passage (shown schematically)
Outcrop of Salem Warsaw Limestone and older rocks
(unclude)
Boundary of groundwater basin
Boundary of groundwater sub basin
Sinkhole where 110 tons of clay was dumped, 1970
Site of cyanide spill along Interstate 65,
BACON CREEK
MUNFORDVILLE
HORSE CAVE
CAVE
LITTLE
BARREN
500
600
700
560


KEN-DEC, INC.
DRAINAGE
1-27-98
DRAWNED BY
EMORY KIDD
REV. 1, 1/98
HWY 31W
OUTFALL 003
DRY WELL
DRAINAGE
PARKING LOT
APPROXIMATE NORTH
BLUEGRASS AVENUE
LOADING DOCK
CONCRETE PAD
DIE-CAST
BREAK ROOM
OFFICE
PAINT ROOM
DRAINAGE
PL
DRAINAGE
CONCRETE PAD
ELECTROPLATER
MAINTENANCE & TOOL ROOM
WASTE WATER TREATMENT
ELECTROPLATER
PARKING LOT
BUFFING & GRINDING
STOCKROOM
MOLD STORAGE
SECONDARY TOOL STORAGE
VIBRATORY
WAREHOUSE
OUTFALL 002
SINKHOLE
DART RAIL ROAD SPUR
DRAINAGE
OUTFALL 001
SINKHOLE
PL