

# CASE NO. 716-AM-12

SUPPLEMENTAL MEMORANDUM

MAY 31, 2012

Petitioners: **William & Deborah Klein  
and Mary Klein**

Site Area: **4.5 acres**

Time Schedule for Development: **The prospective tenant intends to move to the subject property upon approval of the rezoning.**

Prepared by: **Andy Kass**  
Associate Planner

**John Hall**  
Zoning Administrator

Request: **Amend the Zoning Map to change the zoning district designation from the AG-1 Agriculture Zoning District to the I-1 Light Industry Zoning District to allow limited re-use of a former agricultural chemical research facility.**

Location: **An approximate 4.5 acre tract in the North Half of the Northeast Quarter of the Northeast Quarter of Section 35 of Scott Township and commonly known as the former Syngenta research facility at 495 CR 1300N, Champaign.**

Champaign  
County  
Department of

**PLANNING &  
ZONING**

Brookens  
Administrative Center  
1776 E. Washington Street  
Urbana, Illinois 61802

(217) 384-3708

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## STATUS

This is the first hearing for this case. Information regarding the existing septic system is provided below and documentation is attached. Evidence is proposed to be added to the Finding of Fact. Additional special conditions of approval have been proposed and are included below.

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## EXISTING SEPTIC SYSTEM

The existing septic system located on the subject property was approved and installed in 1989 for the ICI Americas, Northern Research Center, the original use of the subject property. The system includes a 1,500 gallon septic tank and a 1,000 square feet buried sand filter that was designed to treat sanitary waste for 20 employees. A letter dated February 6, 1990 from Mark Kuechler, Illinois Department of Public Health, to Robert Arledge, system installer, indicates that the system was in violation of the Illinois Private Sewage Disposal Licensing Act. To the knowledge of Planning and Zoning Staff the violations were corrected at that time.

## PROPOSED NEW EVIDENCE

Revise Item 16.A.(1) of the Finding of Fact as follows:

The proposed rezoning *ACHIEVES* Objective 6.1 because of the following:

- (1) Policy 6.1.2 states, "The County will ensure that the proposed wastewater disposal and treatment systems of discretionary development will not endanger public health, create nuisance conditions for adjacent uses, or negatively impact surface or groundwater quality."

The proposed rezoning *ACHIEVES* Policy 6.1.2 for the following reasons:

- (a) The proposed use is not of a type to require processing of large amounts of wastewater as reviewed in Item 8.
- (b) The proposed use is similar in nature to the previous use of the subject property.
- (c) The existing septic system located on the subject property was approved and installed in 1989 for the ICI Americas, Northern Research Center, the original use of the subject property. The system includes a 1,500 gallon septic tank and a 1,000 square feet buried sand filter that was designed to treat sanitary waste for 20 employees.
- (d) An email dated May 31, 2012, from Jeff Blackford, Program Coordinator, Champaign County Health Department, indicates that current code allows for the discharge of water softener waste to go into a sand filter, but any saline above that may cause a problem.
- (e)(e) The special conditions prohibit any expansion of the buildings or outdoor activity areas, which should prevent any problems.
- (f) The special conditions will ensure that the wastewater from the salt fog chamber will not cause any problems with the septic system.

#### PROPOSED SPECIAL CONDITIONS OF APPROVAL

- E. A Change of Use Permit shall be applied for within 30 days of the County Board approval of Case 716-AM-12.**

The above special condition is required to ensure the following:

**The establishment of the proposed use shall be properly documented as required by the Zoning Ordinance.**

- F. The Zoning Administrator shall not authorize a Zoning Compliance Certificate unless the following documentation is received within 12 months after approval of the Change of Use Permit:**

- (1) A letter or email from the Champaign County Health Department stating that the wastewater from the salt fog chamber appears to pose no significant harm to the septic system; or
- (2) A letter or email from the Champaign County Health Department stating that the wastewater from the salt fog chamber is being disposed of in a manner consistent with the Champaign County Health Ordinance; and
- (3) A copy of any permit required from the County Health Department.

The above special condition is required to ensure the following:

**The disposal of the wastewater does not result in nuisance or unsafe conditions.**

- G. Any non-agricultural use on the subject property that produces hazardous waste shall be serviced by a licensed hazardous waste hauler/disposal company.**

The above special condition is required to ensure the following:

**That hazardous waste is disposed of properly.**

**ATTACHMENTS**

- A Letter from Mark Kuechler to Robert Arledge dated February 6, 1990, received May 31, 2012
- B Private Sewage Disposal System Construction Approval received May 31, 2012
- C Plan review Application with Site Plan received May 31, 2012
- D Environmental Miscellaneous Sample Form relieved May 31, 2012
- E Letter from Mark Kuechler to William Schweickert dated July 28, 1989, with trial application attached received May 31, 2012
- F Letter from William Schweickert to Mark Kuechler dated July 11, 1989, received May 31, 2012
- G Letter from William Schweickert to Mark Kuechler dated August 1, 1989, received May 31, 2012
- H Email from Jeff Blackford to John Hall received May 31, 2012



ILLINOIS DEPARTMENT OF  
PUBLIC HEALTH

A Healthier Today For A Better Tomorrow

Bernard J. Turnock, M.D., Director

February 6, 1990

CHAMPAIGN COUNTY (SEYMOUR) - Install #6-89-112

RECEIVED

MAY 31 2012

CHAMPAIGN CO. P & Z DEPARTMENT

Robert C. Arledge  
714 S. Neil  
Champaign, Illinois 61820

Dear Mr. Arledge:

On January 30, 1990, Sanitarian Rick Hafer of our Champaign Regional Office inspected the buried sand filter that you installed at ICI Americas, Northern Research Center. The purpose of this letter is to relay the results of this inspection.

Based on our representative's observations, the following violations of the Illinois Private Sewage Disposal Licensing Act and Code were found to exist.

1. Section 905.70(b) - The vent shall be screened with  $\frac{1}{2}$ " mesh screen or equivalent. Currently the vent has a cup taped on top of it which does not allow air in.
2. Section 905.120. The chlorine feeder and the sample port must have screw caps as illustrated by Section 905. Appendix A. Ill. S. Also, provide the 3" pipe insert for supporting chlorine tablets.
3. Section 905.20(j) - The alarm panel for the lift pump must be securely fastened to the dry wall within the building.

Within ten (10) days of the date of this letter, we shall expect you to have corrected the violations listed above. All repairs must be performed by a licensed sewage contractor and must be inspected by this Office.

If you have any questions, please contact Sanitarian Hafer or me at the Champaign Regional Office, 2125 South First Street, Champaign, Illinois 61820, telephone (217) 333-6914.

Very truly yours,

Mark Kuechler, P.E.  
Regional Engineer

RH:ls

cc:-Champaign Regional Office  
-Div. of Environmental Health

ILLINOIS DEPARTMENT OF PUBLIC HEALTH

PRIVATE SEWAGE DISPOSAL SYSTEM  
CONSTRUCTION APPROVAL

6-89-112  
Approval Number  
Champaign  
County

Based on the Plan Review Application to construct a private sewage disposal system, filed by:

Robert C. Arledge  
Applicant

714 S. Neil Champaign, IL 61820  
Street City State Zip Code

On Aug 11, 1989

Approval is hereby issued for a [ New] [ Renovated] Private Sewage Disposal System  
which is to be constructed at: I.C.I.

RR #1 Box 25A SEYMOUR  
Street City

The private disposal system is to be constructed as specified by the plan review application and as noted under special conditions of this Approval.

The private sewage disposal system construction approval is null and void if a) conditions are changed from those shown on the application b) if construction has not commenced within 12 months of date of issuance.

The Illinois Department of Public Health does not guarantee length of service or trouble free operation of this private sewage disposal system by the issuance of this approval. The contractor and property owner are responsible for an installation that is in compliance with the Illinois Private Sewage Disposal Licensing Act and Code. The property owner assumes full responsibility for any nuisance or health hazard that might result from its use.

Issued by: Gjoh Hgf Date 8/11/89

Special Conditions/Comments/Approved Variances: This system is designed to treat the sanitary waste from 20 employees only.

THE DEPARTMENT REQUIRES 48 HOURS NOTIFICATION PRIOR TO COMMENCING CONSTRUCTION. CONTACT THE OFFICE LISTED BELOW:

ILLINOIS DEPARTMENT OF PUBLIC HEALTH  
CHAMPAIGN REGION  
2125 SOUTH FIRST STREET  
CHAMPAIGN, ILLINOIS 61820

RECEIVED

MAY 31 2012

CHAMPAIGN CO. P & Z DEPARTMENT

RECEIVED

MAY 31 2012

ILLINOIS DEPARTMENT OF PUBLIC HEALTH  
PRIVATE SEWAGE DISPOSAL SYSTEM

CHAMPAIGN CO. P & Z DEPARTMENT

PLAN REVIEW APPLICATION

New System

Renovation

LOG NUMBER 6-89-112  
(Office Use Only)

COUNTY Champaign  
(Office Use Only)

1. Owner I.C.I. Americas, Inc. N. Research Center Address RR #1 Box 25A  
Telephone No. \_\_\_\_\_ Seymour, Ill.

2. Contractor Robert C Arledge Plb. Htg. License Number FET 050-301646  
Address 714 S Neil Telephone No. 217 352 6826  
Champaign, Ill.

NOTE: In general, work not done by homeowner must be done by a licensed contractor.

3. Location - County Champaign City Seymour Street RR #1 Box 25A  
Subdivision \_\_\_\_\_ Lot # \_\_\_\_\_ Section 35 Township 19N Range 7E

4. Directions to Site: Highway Number, Secondary Roads, Signs to Follow, etc.  
Rte 10 west of Champaign to Bondville South on 500E  
to 1300 N, Southwest corner

5. Site Information

Residential Dwelling \_\_\_\_\_ No. of Bedrooms \_\_\_\_\_ Garbage Grinder - Yes \_\_\_\_\_ No \_\_\_\_\_ Basement-Yes \_\_\_\_\_ No \_\_\_\_\_  
Commercial X No. of Employees 20 Design Flow 700 35 G.P.D./employee No Food  
Percolation Tests: Date \_\_\_\_\_ Conducted By \_\_\_\_\_ Soil Type SERVICE!  
Hole No. 1 \_\_\_\_\_ min./6" Hole No. 2 \_\_\_\_\_ min./6" Average min./6" Fall \_\_\_\_\_ vending machines  
(Rerun or use highest value if difference is greater than 30 minutes) only.

6. Proposed Private Sewage Disposal System:

- a) Septic Tank Size 1,500 Gallons, IL# 13
- b) Subsurface Seepage Field/Bedroom \_\_\_\_\_ Sq. Ft.  
Total Subsurface Seepage Field \_\_\_\_\_ Sq. Ft.
- c) Gravel-Less Seepage Field-L.F. 8" \_\_\_\_\_, L.F. 10" \_\_\_\_\_
- d) Seepage Bed \_\_\_\_\_ Sq. Ft.
- e) Seepage Pit \_\_\_\_\_ Sq. Ft.
- f) Buried Sand/Recirculating Sand Filter 1008 Sq. Ft.

- g) Waste Stabilization Pond \_\_\_\_\_ Length \_\_\_\_\_ Width \_\_\_\_\_
- h) Wisconsin Mound-Basal Area \_\_\_\_\_ Sq. Ft.
- i) Chlorination Tank 50 Gallons (if require)
- j) Aerobic Treatment Plant Manufacturer \_\_\_\_\_
- k) Location of Audio & Visual Alarms (if required)  
Research lab. building #1  
(Garage, Basement, Stairwell, etc.)

7. I certify that the attached information is complete and correct and that, if approved, the work will conform with the current Private Sewage Disposal Licensing Act and Code.

Robert C Arledge  
Signature of Applicant (Owner or Contractor)

8-10-89  
Date

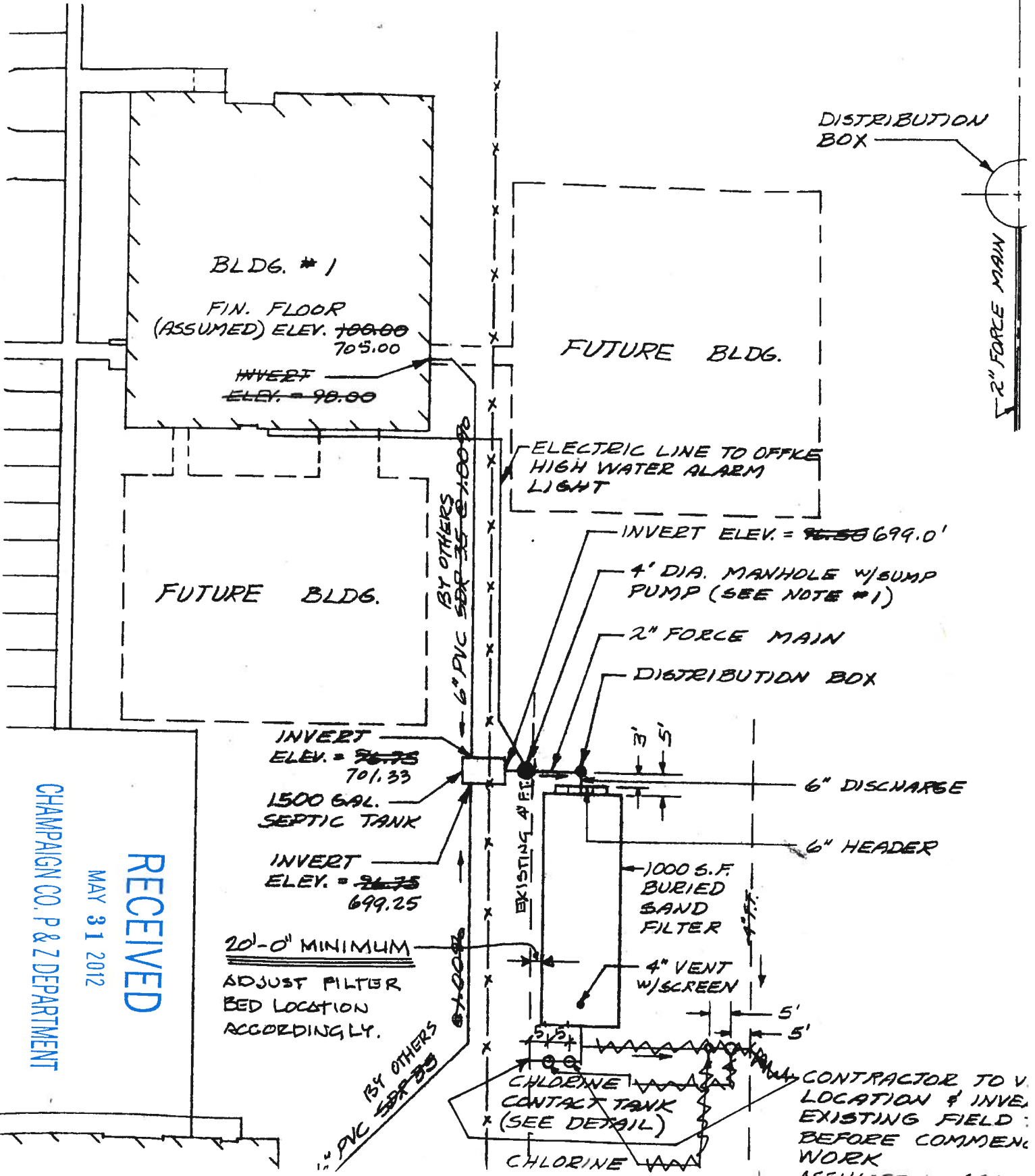
IMPORTANT NOTICE

This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 84-670. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.



UPDATE

PROPOSED WATER LINE MOVED



CHAMPAIGN CO. P & Z DEPARTMENT

MAY 31 2012

RECEIVED

1. NAME OF SOURCE: INTERSTATE SAND + GROVE

2. ADDRESS:  
STREET OR RR: BOX 38  
CITY, TOWN, STATE: COVINGTON, IN ZIP CODE: 47932 COUNTY: OUT of State

3. DATE COLLECTED: 08-18-89 4. TIME COLLECTED: 4:30

5. TYPE OF SAMPLE: SAND

6. COLLECTED BY: RICK HAFER, Ref 6

OFFICIAL USE

9. MICROFILM NBR: \_\_\_\_\_

10. TRAN CODE: 55

11. REGION OR LHD: C

12. LABORATORY ID: 001

13. COLLECTOR ID: \_\_\_\_\_

14. SAMPLE NUMBER: \_\_\_\_\_

7. SOURCE OF SAMPLE: I.C.I. Northern Research Facility  
- Bob Arledge

8. MAIL REPORT TO: NAME: R. HAFER, IDPH RE-6  
STREET: 2125 S. FIRST ST.  
CITY/STATE: CHAMPAIGN, IL ZIP CODE: 61820  
TELEPHONE NUMBER: 217-333-6914

OFFICIAL USE ONLY

ANALYSIS REQUESTED: Sieve analysis (e.s. - 0.5 - 2.0mm uc. < 3.5)  
For a buried sand filter sewage disposal system.

COMMENTS: \_\_\_\_\_

15. LABORATORY RESULTS:

PARAMETER	ID	RESULT	*UNIT	PARAMETER	ID	RESULT	*UNIT
<u>ES</u>		<u>1.10</u>	<u>mm</u>				
<u>UC</u>		<u>2.50</u>					

\*CODE UNIT AS FOLLOWS:  
% = PERCENT      C = DEGC      I = MICROGRAM./L      M = /ML.      U = MICROGM./ML  
A = GRAMS        F = DEGF      J = /100 GM.        O = COLOR      X = PPM  
B = /GM.          H = /100ML    L = MG./L            T = TU            Y = PPB

16. DATE RECEIVED AT LABORATORY: AUG 22 1989 (with handwritten 15:00 hrs. KAK)

17. DATE REPORTED FROM LABORATORY: 08-23-89

ANALYST: NA/KNB

REMARKS: \_\_\_\_\_

**RECEIVED**  
MAY 31 2012  
CHAMPAIGN CO. P & Z DEPARTMENT

RECEIVED STAMP  
AUG 24 1989  
Circular stamp with date and time, and handwritten initials AKK and AKK.





ILLINOIS DEPARTMENT OF  
PUBLIC HEALTH

A Healthier Today For A Better Tomorrow

Bernard J. Turnock, M.D., Director

CHAMPAIGN COUNTY (SEYMOUR) - Private Sewage Code  
Approval #6-89-90

July 28, 1989

Mr. William H. Schweickert  
Farnsworth & Wylie, P.C.  
2709 McGraw Dr.  
Bloomington, Illinois 61704

RECEIVED

MAY 31 2012

CHAMPAIGN CO. P & Z DEPARTMENT

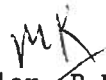
Dear Mr. Schweickert:

We have reviewed the attached trial application which you recently submitted for the construction of a private sewage disposal system designed for ICI Americas Northern Research Station. We suggest that your contractor consider the following issues before submitting a final plan review application.

1. Section 1 - The purpose of this section is to give you space to display the property owner's current address or in this case, the address of the home office.
2. Section 6(a) - Provide the approval number of the septic tank manufacturer.
3. Section 6(i) - Provide the capacity of the chlorine contact chamber if required (minimum 36 gallon).
4. Section 6(k) - Provide the proposed location of the Audio and Visual Alarm.
5. Section 8 - Provide the location of all water lines.
6. Section 8 - Provide the distances of system components to neighboring wells or property lines if applicable.
7. Section 8 - All gravity flow building sewer must be installed with a fall of 1/8" per foot rather than 10%.
8. We suggest you consider pressure dosing this sand filter. The enclosed dosing information provides design criteria for mounds. We suggest you adopt this mound information to use for the proposed sand filter.

Upon receipt of your completed application, we will continue with the review. If you have any questions, please feel free to contact our Champaign Regional Office, 2125 South First Street, Champaign, Illinois 61820, telephone (217) 333-6914.

Very truly yours,

  
Mark Kuechler, P.E.  
Regional Engineer

RR:ls

cc:-Champaign Regional Office

-Div. of Environmental Health Champaign Regional Office  
2125 South First Street • Champaign, Illinois 61820

RECEIVED

MAY 31 2012

ILLINOIS DEPARTMENT OF PUBLIC HEALTH  
PRIVATE SEWAGE DISPOSAL SYSTEM

PLAN REVIEW APPLICATION

CHAMPAIGN CO. P & Z DEPARTMENT  
[ ] Renovation

[X] New System

LOG NUMBER 6-89-90  
(Office Use Only)

COUNTY Champ.  
(Office Use Only)

1. Owner ICI Americas, Inc. Address Township Roads 500E & 1300N  
Northern Research Station Champaign County  
Telephone No. \_\_\_\_\_

2. Contractor \_\_\_\_\_ License Number \_\_\_\_\_  
Address (not selected) Telephone No. \_\_\_\_\_

NOTE: In general, work not done by homeowner must be done by a licensed contractor.

3. Location - County Champaign City Seymour Street 1300N 500E (S.W. CORNER)  
Subdivision \_\_\_\_\_ Lot # \_\_\_\_\_ Section 35 Township 19N Range 7E

4. Directions to Site: Highway Number, Secondary Roads, Signs to Follow, etc.  
Located on the southwest corner of Township roads 1300N & 500E

5. Site Information  
Residential Dwelling \_\_\_\_\_ No. of Bedrooms \_\_\_\_\_ Garbage Grinder - Yes \_\_\_\_\_ No \_\_\_\_\_ Basement-Yes \_\_\_\_\_ No \_\_\_\_\_  
Commercial X No. of Employees 20 Design Flow 700GPD (No Food service)  
Percolation Tests: Date see letter Conducted By Farnsworth & Wylie, P.C Soil Type \_\_\_\_\_  
Hole No. 1 \_\_\_\_\_ min./6" Hole No. 2 \_\_\_\_\_ min./6" Average min./6" Fall \_\_\_\_\_ (if known)  
(Rerun or use highest value if difference is greater than 30 minutes)

6. Proposed Private Sewage Disposal System:  
a) Septic Tank Size 1500 Gallons, IL# \_\_\_\_\_  
b) Subsurface Seepage Field/Bedroom \_\_\_\_\_ Sq. Ft.  
Total Subsurface Seepage Field \_\_\_\_\_ Sq. Ft.  
c) Gravel-Less Seepage Field-L.F. 8" \_\_\_\_\_, L.F. 10" \_\_\_\_\_  
d) Seepage Bed \_\_\_\_\_ Sq. Ft.  
e) Seepage Pit \_\_\_\_\_ Sq. Ft.  
f) Buried Sand/Recirculating Sand Filter 1,008 Sq. Ft.  
g) Waste Stabilization Pond \_\_\_\_\_ Length \_\_\_\_\_ Width \_\_\_\_\_  
h) Wisconsin Mound-Basal Area \_\_\_\_\_ Sq. Ft.  
i) Chlorination Tank \_\_\_\_\_ Gallons (if req.)  
j) Aerobic Treatment Plant Manufacturer \_\_\_\_\_  
k) Location of Audio & Visual Alarms (if required)  
(Garage, Basement, Stairwell, etc.)

7. I certify that the attached information is complete and correct and that, if approved, the work will conform with the current Private Sewage Disposal Licensing Act and Code.  
William H. Schwickerd, P.E. July 12, 1989  
Signature of Applicant (Owner or Contractor) \_\_\_\_\_ Date  
Farnsworth & Wylie, P.C.

IMPORTANT NOTICE  
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 84-670. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

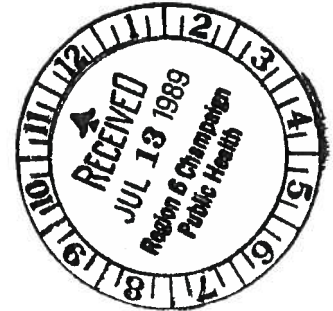


FARNSWORTH & WYLIE, P.C.  
ENGINEERS & SURVEYORS

2709 MCGRAW DRIVE  
BLOOMINGTON, IL 61704  
PHONE 309/663-8435  
FAX 309/663-1571

July 11, 1989

Mr. Mark Kuechler, R.E.  
Illinois Department of Public Health  
2125 So. First Street  
Champaign, IL 61820



Project: ICI Americas, Inc.  
Northern Research Station

Subject: Plan Review Application for Private Sewage  
Disposal System

Dear Mr. Kuechler:

Please find enclosed a trial application and plans for the above referenced project.

This application is presented for your review and comments only. I understand in talking with you on the telephone earlier, the contractor doing the work will be required to submit a formal application to your office to obtain a permit for construction of the septic system.

A series of four percolation tests were conducted on May 17, 1989 by Farnsworth & Wylie, P.C. personnel at various locations on this site. All the tests failed; therefore, a buried sand filter was designed for this site.

Please inform me as soon as possible on the suitability of the enclosed plans for the sewage disposal system.

If you have any questions, please call.

Sincerely,

FARNSWORTH & WYLIE, P.C.

*William H. Schweickert*

William H. Schweickert

RECEIVED

MAY 31 2012

CHAMPAIGN CO. P & Z DEPARTMENT

WHS/np

Enclosure

106 E. WASHINGTON  
PONTIAC, IL 61764  
PHONE 815/844-5571

309 W. MAIN ST.  
CLINTON, IL 61727  
PHONE 217/935-4551

*MK  
BP BP  
RH  
Please review  
& respond*



FARNSWORTH & WYLIE, P.C.  
ENGINEERS & SURVEYORS

August 1, 1989

2709 MCGRAW DRIVE  
BLOOMINGTON, IL 61704  
PHONE 309/663-8435  
FAX 309/663-1571

Mr. Mark Kuechler, R.E.  
Illinois Department of Public Health  
2125 S. First Street  
Champaign, IL 61820

RECEIVED

MAY 31 2012

CHAMPAIGN CO. P & Z DEPARTMENT  
CHAMPAIGN CO. P & Z DEPARTMENT

PROJECT: ICI Americas, Inc.  
Northern Research Station

SUBJECT: Reply to Review of Application for  
Private Sewage Disposal System

Dear Mr. Kuechler:

Please find enclosed plans and a copy of your letter of July 28, 1989 with the following comments.

1. The owner's address is:

ICI Americas, Inc.  
Northern Research Center  
R.R.#1, Box 25A  
Seymour, IL 61875

2. The approval number will be supplied by the Contractor installing the system.

3. The capacity of the chlorine contact chamber is 56 gallons.

4. The proposed location of the audio and visual alarm will be in the research lab area of building #1 which is constantly occupied during working hours.

5. The water lines are located on the enclosed plans.

6. The distances are shown on the enclosed plans. The sewer lines will be PVC (DWV Schedule 40). ASTM Standard D-2665-78 in all locations within 10 feet of the water lines.

7. The gravity flow sewers were previously shown, and are now shown, with a fall of 1/8" per foot or 1.0%.

8. We do not feel pressure dosing is required and a buried sand filter meets the current requirements of "Private Sewage Disposal Licensing Act. and Code-

MK  
BP  
RMB

Mr. Mark Kuechler, R.E.  
Page 2  
August 1, 1989

1982" of the State of Illinois.

The installing septic system contractor will make the formal application for construction. If you have any questions, please call.

Sincerely,

FARNSWORTH & WYLIE, P.C.

*William H. Schweickert*

William H. Schweickert

WHS/bkw

Enclosure



RECEIVED

MAY 31 2012

CHAMPAIGN CO. P & Z DEPARTMENT

## John Hall

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**From:** Jeff Blackford [jblackford@c-uphd.org]  
**Sent:** Thursday, May 31, 2012 12:33 PM  
**To:** John Hall  
**Subject:** FW: 6-89-112 ICI.pdf  
**Attachments:** SKMBT\_60012053109240.pdf

Hi John,

This is the permit that we received from the state. It is a sand filter designed for essentially the restroom waste of 20 employees. Are current code does allow the discharge of water softener waste to go into a sand filter, but any saline above that may cause a problem. Contact me with questions. Thanks.

Jeff Blackford  
Program Coordinator  
CUPHD

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**From:** Michael Flanagan  
**Sent:** Thursday, May 31, 2012 11:59 AM  
**To:** Jeff Blackford  
**Subject:** FW: 6-89-112 ICI.pdf

Michael Flanagan BS, REHS, LEHP  
Environmental Health Specialist 1  
Champaign County Public Health Department  
201 Kenyon Rd.  
Champaign, IL 61820

Phone: 217-531-2908  
Fax: 217-373-7905

[mflanagan@c-uphd.org](mailto:mflanagan@c-uphd.org)

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**From:** Hafer, Rick [<mailto:Rick.Hafer@Illinois.gov>]  
**Sent:** Thursday, May 31, 2012 10:47 AM  
**To:** Michael Flanagan  
**Cc:** Kuechler, Mark  
**Subject:** 6-89-112 ICI.pdf

More full scale plans exist that are of limited value because the contractor had a hard time following them.

Let me know if you have interest in more detail.