



# START

Incoming:9400898

## Department of Energy

Richland Operations Office  
P.O. Box 550  
Richland, Washington 99352  
MAY 17 1994

94-RPS-219

Mr. George B. Schlender, Program Manager  
Larger On-Site Municipal  
Wastewater Reuse Systems  
State of Washington  
Department of Health  
West 924 Sinto  
Spokane, Washington 99201

Dear Mr. Schlender:

FINAL INSPECTION OF THE LARGER ON-SITE SEWAGE SYSTEM TO SUPPORT THE HANFORD  
WASTE VITRIFICATION PROJECT ADMINISTRATION BUILDING (PROJECT B-595)

Enclosed is the State of Washington Department of Health (DOH) Certification  
of Inspection and Installation of Larger On-Site Sewage Systems Form  
(Certification Form) for the Hanford Waste Vitrification Project (HWVP). The  
Certification Form has been prepared in accordance with Washington  
Administrative Code 246-272-080.

In a DOH letter, Mr. T. Hemken, DOH, to Ms. A. L. Rodriguez, dated January 13,  
1994, DOH approved the septic system project, but cited one item that needed  
to be installed for the Project B-595 septic system to be considered  
acceptable. The enclosed Certification Form certifies that the item cited in  
the DOH letter was properly installed, the project was inspected by a  
professional engineer or his authorized agent, and the project was constructed  
in accordance with the plans and specifications approved by DOH.  
Project B-595 provides a septic disposal system to service the new  
administration building and adjacent facilities at the HWVP site.

Should you have any questions regarding this transmittal, please contact me or  
Ms. A. L. Rodriguez of my staff on (509) 372-0277.

Sincerely,

  
Steven H. Wisness, Acting Program Manager  
Office of Environmental Assurance,  
Permits, and Policy

EAP:ALR

Enclosure

cc w/encl:  
Administrative Records  
J. L. Hensley, Ecology

cc w/o encl:  
G. L. Levan, UCAT  
J. J. Luke, WHC  
R. F. Stanley, Ecology



94-3224-1373



STATE OF WASHINGTON  
DEPARTMENT OF HEALTH

West 924 Sinto Avenue • Spokane, Washington 99201-2595 • FAX (509) 456-2997

January 13, 1994

ATTN. Ms. A.L. Rodriguez  
U.S. Department of Energy  
Environmental Assurance Permits & Policy  
Richland Field Office  
M.S. A5-15  
Richland, WA 99352

RE: Project B-595, "Hanford Waste Vitrification Plant", Final  
Inspection, Design Flow 11,820

Dear Ms. Rodriguez:

A final inspection was completed on the above referenced project on  
January 11, 1994. The system appeared to be acceptable and approval  
for covering was given provided:

- 1) A dose counter is installed in the drainfield to indicate  
alternating siphons. Example "Siphon Sitter II" by Orenco  
Systems Inc.

As-Built plans and an Operation and Maintenance Manual shall be  
submitted to the DOH from the engineer which will reflect any and  
all modifications to the system during construction.

If you have any questions regarding the above issues please feel  
free to give me a call.

Sincerely,

Tom Hemken, Environmentalist  
Larger-On-Site Systems  
(509) 456-4431

Enclosure

cc: Ecology Nuclear and Mixed Waste Management, Jerry Hensley  
Westinghouse Hanford, Rick Oldham  
Westinghouse Hanford, Ken Giese  
DOE HWVP Project, Steve Bradley  
Benton-Franklin County Health District  
State Health

9413224.1374

Enclosure 1

947324.1375

CERTIFICATION OF INSPECTION AND INSTALLATION OF LARGER ON-SITE SEWAGE SYSTEMS

The following regulation applies: WAC 246-272-080- Within sixty days following the completion of and prior to the use of any project or portion thereof for which plans and specifications have received the approval of the Secretary, certification shall be made to the Secretary and signed by a professional engineer that the project was inspected by him or his authorized agent and that it was constructed in accordance with the plans and specifications approved by the Secretary.

Instructions:

- (a) If a project is being completed in stage construction, attach a map and description of project being certified as completed as approved on date given below. **(SEE ATTACHED)**
- (b) As future portions of staged construction projects are completed, each must be certified as required by WAC 246-272-080.
- (c) Additional certification forms are available upon request from DOH offices listed below.

U.S. Department of Energy

Name of Sewer System  
Environmental Assurance, Permits & Policy  
Richland Field Office - M.S. A5-15

Date Plans and Specifications  
 Approved by Department of Health

Mailing Address

March 23, 1993

Richland WA 99352  
 City State Zip

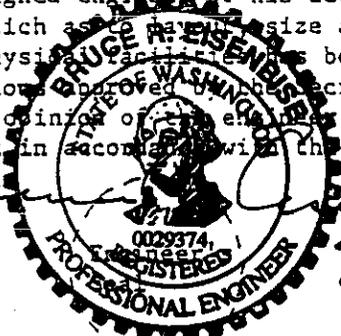
Date Project or Portions Thereof  
 Completed

PROJECT NAME AND DESCRIPTIVE TITLE:

APRIL 13, 1994

*Project B-595 - H.W.V.P. - Septic System Installation, Design Flow 11,820 gpd*

The undersigned engineer or his authorized agent has inspected the above-described project, which includes the size and type of pipe, valves and materials, and other designed physical facilities, and has been constructed in accordance with the plans and specifications approved by the Secretary, Department of Health, and in the opinion of the undersigned, the installation and testing of the system was carried out in accordance with the specifications approved by the Secretary for the project.



BRUCE R. EISENRISE  
 Engineer

APRIL 14, 1994  
 Date

EXPIRES 11/25/95

Please return completed form to \_\_\_\_\_ office checked below.

Seattle Regional Office  
 Health Services Division  
 Water Supply and Waste Section  
 Smith Tower, Mail Stop B 17-9  
 Seattle, Washington 98104

Olympia Regional Office  
 Health Services Division  
 Water Supply and Waste Section  
 Mail Stop LD-11  
 Olympia, Washington 98504

Spokane Regional Office

West 924 Sinto  
 Spokane, Washington 99201

*Benton County*

9173224-1376

**HWVP SANITARY SEWER SYSTEM**  
**AS-CONSTRUCTED DESCRIPTION**  
April 14, 1994

The sanitary sewer system constructed as part of this certification process includes the following items (see Exhibit A attached):

**Sewer Collection System**

- 1,650 lineal feet of 8" diameter PVC gravity sewer main.
- 7 manholes.

**Septic/Dosing Tanks**

- 17,700 gallon septic tank.
- 2 effluent filters.
- 1,480 gallon dosing tank.
- 2 - 6" diameter automatic siphons.
- 2 septic and dosing tank vents, one for each tank.

**Drainfields**

- 3 drainfields including manifold and distribution lateral piping consisting of 2 active fields and 1 standby field.
- 3 dose counters, 1 for each field.
- 6 drainfield monitoring ports, 2 for each field.
- 6" and 8" diameter transport pipelines, 1 pipeline feeding each field.
- 6 drainfield control valves for isolation/rotation of drainfields.
- The septic tank and drainfield systems, as presently constructed, are designed for a flow rate of 11,820 gallons per day.

The HWVP sanitary sewer collection system, as presently constructed, is an abbreviation of the system initially designed to serve the HWVP project. The original designed system provided a network of sewage collection pipelines throughout the site. With the deferral of the HWVP project, only that portion of the collection system serving the TWRS Office Building (TOB), HWVP Guardhouse, and the HWVP Safety Trailer has been built. The personnel that would have operated the HWVP project have been replaced by a similar complement of office personnel that will occupy the TOB building. The design of the septic tank and drainfields systems has not been altered by the deferral of HWVP and have been built according to approved drawings.

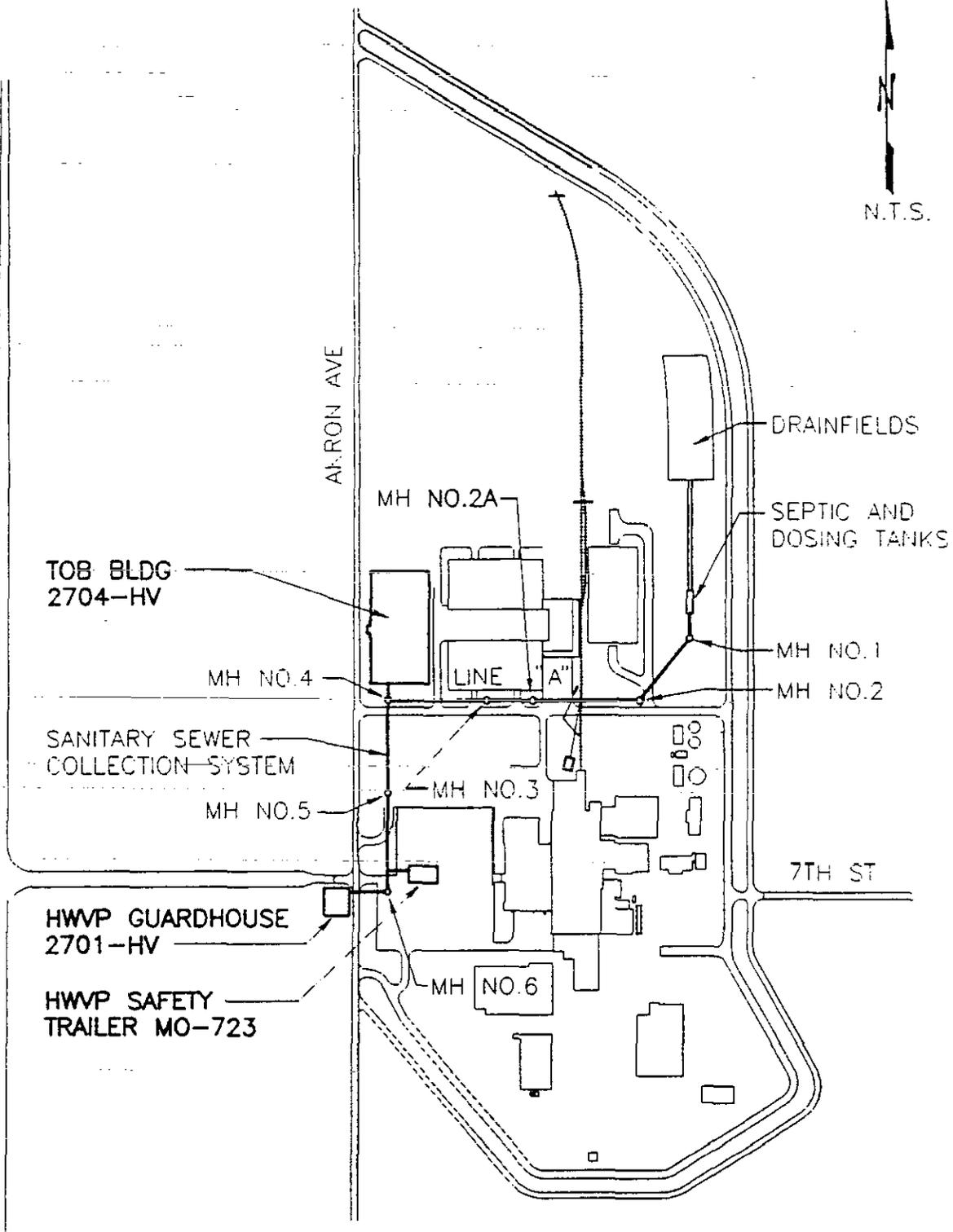
The layout of the sanitary sewer collection system as presently constructed is illustrated in Exhibit A attached.

94324.137

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ROUTE 4

AL-RON AVE



# HWVP SANITARY SEWER SYSTEM

# CORRESPONDENCE DISTRIBUTION COVERSHEET

Author	Addressee	Correspondence No.
S. H. Wisness, RL (K. A. Giese, WHC)	G. B. Schlender, DOH	Incoming:9400898 XRef:9452933D

Subject: FINAL INSPECTION OF THE LARGER ON-SITE SEWAGE SYSTEM TO SUPPORT THE HANFORD WASTE VITRIFICATION PROJECT ADMINISTRATION BUILDING (PROJECT B-595)

## INTERNAL DISTRIBUTION

Approval	Date	Name	Location	w/att
		Correspondence Control	A3-01	
		C. A. Augustine	G6-02	
		D. J. Carrell	H6-22	
		G. D. Carpenter	H6-30	
		L. P. Diediker	T1-30	
		W. T. Dixon, Assignee	H6-21	
		K. A. Giese	H6-25	
		R. J. Landon	H6-21	
		J. J. Luke	H6-25	
		H. E. McGuire, Level 1	B3-63	
		B. D. Williamson	B3-15	
		EPIC	H6-08	
		Project Files	R1-28	
		KAG/File/LB	H6-25	

9452933D