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Title/Desc:

HANFORD SITE STORM WATER COMPREHENSIVE SITE
COMPLIANCE EVALUATION REPORT FOR THE REPORTING
PERIOD 07/01/1994 THRU 06/30/1995

2. To: (Receiving Organization) DISTRIBUTION	3. From: (Originating Organization) Air and Water Permitting	4. Related EDT No.: 611714
5. Proj./Prog./Dept./Div.: PSO/ES/Air & Water Permitting	6. Cog. Engr.: K. S. Tollefson/01810/R1015	7. Purchase Order No.: NA
8. Originator Remarks: This annual report presents the stormwater survey results for stormwater outfalls to the Columbia River from the Hanford Site and a listing of significant leaks and spills as required by NPDES Permit No.: WA-R-00-000F for the period July 1, 1994 to June 30, 1995.		9. Equip./Component No.: NA
		10. System/Bldg./Facility: NA
11. Receiver Remarks:		12. Major Assm. Dwg. No.: NA
		13. Permit/Permit Application No.: NA
		14. Required Response Date: NA

15. DATA TRANSMITTED					(F)	(G)	(H)	(I)
(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	Approval Designator	Reason for Transmittal	Originator Disposition	Receiver Disposition
1	WHC-SD-EN-EE-015		0	Hanford Site Comp. Site Compliance Eval. Report	NA	1/2	1	

16. KEY		
Approval Designator (F)	Reason for Transmittal (G)	Disposition (H) & (I)
E, S, Q, D or N/A (see WHC-CM-3-5, Sec.12.7)	1. Approval 2. Release 3. Information 4. Review 5. Post-Review 6. Dist. (Receipt Acknow. Required)	1. Approved 2. Approved w/comment 3. Disapproved w/comment 4. Reviewed no/comment 5. Reviewed w/comment 6. Receipt acknowledged

17. SIGNATURE/DISTRIBUTION (See Approval Designator for required signatures)								(G)	(H)
Reason	Disposition	(J) Name	(K) Signature (M) MSIN	(L) Date	(J) Name	(K) Signature (M) MSIN	(L) Date	Reason	Disposition
1/2	1	Cog. Eng. K. S. Tollefson	<i>K. S. Tollefson</i>	8-29-95	N. M. Menard	<i>N. M. Menard</i>	8-29-95	1/2	1
1/2	1	Cog. Mgr. J. J. Luke	<i>J. J. Luke</i>	8-29-95					

18. <i>Kathy S Tollefson</i> Signature of EDT Date Originator	19. _____ Authorized Representative Date for Receiving Organization	20. <i>J. J. Luke</i> Cognizant Manager Date	21. DOE APPROVAL (if required) Ctrl. No. ☐ Approved ☐ Approved w/comments ☐ Disapproved w/comments
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INSTRUCTIONS FOR COMPLETION OF THE ENGINEERING DATA TRANSMITTAL

(USE BLACK INK OR TYPE)

BLOCK	TITLE	
(1)*	EDT	● Pre-assigned EDT number.
(2)	To: (Receiving Organization)	● Enter the individual's name, title of the organization, or entity (e.g., Distribution) that the EDT is being transmitted to.
(3)	From: (Originating Organization)	● Enter the title of the organization originating and transmitting the EDT.
(4)	Related EDT No.	● Enter EDT numbers which relate to the data being transmitted.
(5)*	Proj./Prog./Dept./Div.	● Enter the Project/Program/Department/Division title or Project/Program acronym or Project Number, Work Order Number or Organization Code.
(6)*	Cognizant Engineer	● Enter the name of the individual identified as being responsible for coordinating disposition of the EDT.
(7)	Purchase Order No.	● Enter related Purchase Order (P.O.) Number, if available.
(8)*	Originator Remarks	● Enter special or additional comments concerning transmittal, or "Key" retrieval words may be entered.
(9)	Equipment/Component No.	● Enter equipment/component number of affected item, if appropriate.
(10)	System/Bldg./Facility	● Enter applicable system, building or facility number, if appropriate.
(11)	Receiver Remarks	● Enter special or additional comments concerning transmittal.
(12)	Major Assm. Dwg. No.	● Enter applicable drawing number of major assembly, if appropriate.
(13)	Permit/Permit Application No.	● Enter applicable permit or permit application number, if appropriate.
(14)	Required Response Date	● Enter the date a response is required from individuals identified in Block 17 (Signature/Distribution).
(15)*	Data Transmitted	
	(A)* Item Number	● Enter sequential number, beginning with 1, of the information listed on EDT.
	(B)* Document/Drawing No.	● Enter the unique identification number assigned to the document or drawing being transmitted.
	(C)* Sheet No.	● Enter the sheet number of the information being transmitted. If no sheet number, leave blank.
	(D)* Rev. No.	● Enter the revision number of the information being transmitted. If no revision number, leave blank.
	(E) Title or Description of Data Transmitted	● Enter the title of the document or drawing or a brief description of the subject if no title is identified.
	(F)* Approval Designator	● Enter the appropriate Approval Designator (Block 15). Also, indicate the appropriate approvals for each item listed, i.e., SQ, ESQ, etc.
	(G) Reason for Transmittal	● Enter the appropriate code to identify the purpose of the data transmittal (see Block 16).
	(H) Originator Disposition	● Enter the appropriate disposition code (see Block 16).
	(I) Receiver Disposition	● Enter the appropriate disposition code (see Block 16).
(16)	Key	● Number codes used in completion of Blocks 15 (G), (H), and (I), and 17 (G), (H) (Signature/Distribution).
(17)	Signature/Distribution	
	(G) Reason	● Enter the code of the reason for transmittal (Block 16).
	(H) Disposition	● Enter the code for the disposition (Block 16).
	(J) Name	● Enter the signature of the individual completing the Disposition 17 (H) and the Transmittal.
	(K)* Signature	● Obtain appropriate signature(s).
	(L)* Date	● Enter date signature is obtained.
	(M)* MSIN	● Enter MSIN. Note: If Distribution Sheet is used, show entire distribution (including that indicated on Page 1 of the EDT) on the Distribution Sheet.
(18)	Signature of EDT Originator	● Enter the signature and date of the individual originating the EDT (entered prior to transmittal to Receiving Organization). If the EDT originator is the cognizant engineer, sign both Blocks 17 and 18.
(19)	Authorized Representative for Receiving Organization	● Enter the signature and date of the individual identified by the Receiving Organization as authorized to approve disposition of the EDT and acceptance of the data transmitted, as applicable.
(20)*	Cognizant Manager	● Enter the signature and date of the cognizant manager. (This signature is authorization for release.)
(21)*	DOE Approval	● Enter DOE approval (if required) by signature or control number that tracks the approval to a signature, and indicate DOE action.

*Asterisk denote the required minimum items check by Configuration Documentation prior to release; these are the minimum release requirements.

RELEASE AUTHORIZATION

Document Number: WHC-SD-EN-EE-015, Rev. 0

Document Title: Hanford Site Storm Water Comprehensive Site
Compliance Evaluation Report - For the Reporting
Period July 1, 1994 through June 30, 1995

Release Date: 9/27/95

**This document was reviewed following the
procedures described in WHC-CM-3-4 and is:**

APPROVED FOR PUBLIC RELEASE

WHC Information Release Administration Specialist:

C. WILLINGHAM

9/27/95

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SUPPORTING DOCUMENT

1. Total Pages **144**

2. Title

Hanford Site Storm Water Comprehensive Site
Compliance Evaluation Report
(For the Reporting Period July 1, 1994 through
June 30, 1995)

3. Number

WHC-SD-EN-EE-015

4. Rev No.

0

5. Key Words

Storm Water Outfall Compliance Evaluation Report

6. Author

Name: **K. S. Tollefson**

K. S. Tollefson
Signature

Organization/Charge Code **01810/
R1015**

7. Abstract

This document is the second annual submittal by WHC, ICF/KH, PNL, and BHI and contains the results of inspections of the storm water outfalls listed in the Hanford Site Storm Water Pollution Prevention Plan (SWPPP) (WHC 1993a) as required by General Permit No. WA-R-00-000F (WA-R-00-A17F). This report also describes the methods used to conduct the Storm Water Comprehensive Site Compliance Evaluation, as required in Part IV, Section D. \$. C of the General Permit, summarizes the results of the compliance evaluation, and documents significant leaks and spills.

8. RELEASE STAMP

22

OFFICIAL RELEASE
BY WHC

DATE *Sept. 27, 1995**Station 35*

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Hanford Site Storm Water Comprehensive Site Compliance Evaluation Report

**For the Reporting Period
July 1, 1994 through
June 30, 1995**

Prepared for the U.S. Department of Energy
Office of Environmental Restoration and
Waste Management

Westinghouse
Hanford Company Richland, Washington

Management and Operations Contractor for the
U.S. Department of Energy under Contract DE-AC06-87RL10930

Approved for Public Release

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ACRONYMS

BHI	Bechtel Hanford, Inc.
BMP	Best Management Practice
EPA	U.S. Environmental Protection Agency
ICF KH	ICF Kaiser Hanford Company
NPDES	National Pollutant Discharge Elimination System
PNL	Pacific Northwest Laboratory
PPT	Pollution Prevention Team
RL	U.S. Department of Energy, Richland Operations Office
SWCSCE	Storm Water Comprehensive Site Compliance Evaluation
SWPPP	Storm Water Pollution Prevention Plan
WHC	Westinghouse Hanford Company

1.0 INTRODUCTION

On September 9, 1992, the U. S. Environmental Protection Agency (EPA) issued General Permit No. WA-R-00-000F, *Authorization to Discharge Under the National Pollutant Discharge Elimination System (NPDES) for Storm Water Discharges Associated with Industrial Activity* (EPA 1992) to U.S. Department of Energy, Richland Operations Office (RL).

RL submitted a Notice of Intent to comply with this permit to EPA in conformance with the General Permit requirements on October 1, 1992. On February 14, 1994, EPA issued a *Storm Water General Permit Coverage Notice* and assigned WA-R-00-A17F as the Hanford Site's National Pollutant Discharge Elimination System (NPDES) storm water permit number.

The *Hanford Site Storm Water Pollution Prevention Plan* (SWPPP) (WHC 1993a) was certified by J. D. Wagoner, Director, RL, on April 1, 1993, in compliance with Part IV.B(i) of the General Permit. A status report was issued in November 1993 (WHC 1993b).

As required by General Permit No. WA-R-00-000F (WA-R-00-A17F), Section IV, Part D, Section 4.c, an annual report must be developed by RL and retained on site to verify that the requirements listed in General Permit No. WA-R-00-000F are being implemented. The first *Hanford Site Storm Water Comprehensive Site Compliance Evaluation Report* addressed the period from July, 1993 through June, 1994.

This document fulfills the requirement to prepare an annual report and contains the results of inspections of the storm water outfalls listed in the SWPPP (WHC 1993a). This report also describes the methods used to conduct the Storm Water Comprehensive Site Compliance Evaluation (SWCSCE), as required in Part IV, Section D.4.c in the General Permit; summarizes the results of the compliance evaluation; and documents significant leaks and spills.

2.0 METHODOLOGY

The Pollution Prevention Team (PPT) has met regularly since May 1995 to conduct the SWCSCE. Appendix 1 lists the PPT members. PTT members in each area surveyed the storm water outfalls to determine the discharge status and updated each outfall as provided in Appendix 2. The name of the PPT member conducting the survey in each area is listed at the top of each table, along with the date the survey occurred. The inspections consisted of a visual inspection of each outfall and the surrounding area that is tributary to the outfall for any signs of changes and/or erosion.

As stated above, the original SWPPP was certified on April 1, 1993, and was implemented by October 1, 1993. The permit then requires an annual report that would require certification by October 1 of each reporting year. The reporting year for this SWCSCE report addresses the period from July 1994 through June 1995.

Appendix 1 contains a list of the Pollution Prevention Team members.

Appendix 2 contains the Hanford Site Storm Water Comprehensive Site Compliance Evaluation results for the reporting period July 1, 1994 to June 30, 1995. These reports are based upon site inspections performed by the cognizant PPT member. The inspections included a walk-around of the site, observation of physical and topographical features, evaluation of potential contamination and conveyances, and applicable best management practices (BMPs) for the site.

Appendix 3 contains maps that correspond to the references identified in Appendix 2. These maps are also included in the SWPPP (WHC 1993a).

Appendix 4 contains an updated list of significant spills and leaks as defined in the General Permit. The SWPPP (WHC 1993a) contains an inventory of spills and leaks that were not all inclusive and didn't distinguish between significant and non-significant as required in the regulations. This SWCSCE report will describe those spills and leaks released during this reporting period that are within the General Permit definition of a significant leak or spill.

Site-specific outfall information that has been used for the compilation of this certification is located with each respective contractor. Outfall E at 100-B, Outfall C at 100-D, Outfalls C-6 and C-7 at 100-K, and the 300 Area Outfalls (excluding Outfalls A through D) is contained in *Westinghouse Hanford Company Release Report June 1995* (WHC 1995). Information sources for Outfall J in the 100-F Area, and Outfalls A through D in the 300 Area are contained within the PNL Environmental Safety and Health - Environmental Compliance Department filing system. Information sources for the 100 Areas (excluding Outfalls E at 100-B, Outfall C at 100-D, Outfalls C-6 and C-7 at 100-K, and Outfall J in the 100-F Area) are contained in a filing system in the 2440 Stevens Center Building.

Appendix 5 contains signed certification pages for the Hanford Site Storm Water Comprehensive Site Compliance Evaluation for the period from July 1, 1994 through June 30, 1995.

The Hanford Fire Department maintains spill response equipment for significant spill/release incidents in accordance with the manufacturer's specifications and National Fire Protection Association. At a minimum, spill response equipment is inspected quarterly.

3.0 RESULTS

Corrective actions have either been completed or are in progress for the storm water outfalls that were determined during inspection to have a potential to discharge pollutants to the Columbia River as a result of storm water runoff. Outfalls that were determined not to be potential sources of pollution to the Columbia River will continue to be inspected annually for potential changes in permit status. Those outfalls that were identified as being NPDES permitted for industrial process discharge will be removed from future SWCSCE reports and SWPPP updates but will be monitored for changes in permit status.

The outfalls associated with research facilities (e.g., the research facility operated by Pacific Northwest Laboratory [PNL]) are not required to comply with the federal storm water regulations. A letter was sent to EPA on June 23, 1994, notifying them of the change in status for these outfalls. However, in keeping with the spirit of the storm water regulations, PNL will continue to inspect these outfalls on an annual basis to determine compliance with permit requirements. (These outfalls are located in the 100-F Area, Outfall Number J, and in the 300 Area, Outfalls A through D.)

4.0 REFERENCES

- EPA, 1992, *Authorization to Discharge Under the National Pollutant Discharge Elimination System (NPDES) for Storm Water Discharges Associated with Industrial Activity*, General Permit WA-R-00-000F, U.S. Environmental Protection Agency, Washington, D.C.
- EPA, 1994, *Storm Water General Permit Coverage Notice*, U. S. Environmental Protection Agency, Washington, D.C.
- WHC, 1993a, *Hanford Site Storm Water Pollution Prevention Plan*, WHC-SD-EN-EV-021, Rev. 0, Westinghouse Hanford Company, Richland, Washington.
- WHC, 1993b, *Status Report on Implementation of Hanford Site Storm Water Pollution Prevention Plan*, Correspondence No. 935872, J. E. Turnbaugh to Distribution, Westinghouse Hanford Company, Richland, Washington.
- WHC, 1994, *Hanford Site Storm Water Comprehensive Site Compliance Evaluation Report*, WHC-SD-EN-EE-014, Rev. 0, Westinghouse Hanford Company, Richland, Washington.
- WHC, 1995, *Westinghouse Hanford Company Release Report June 1995*, Document Control No. 8803787B R80, Westinghouse Hanford Company, Richland, Washington.

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APPENDIX 1

POLLUTION PREVENTION TEAM MEMBERS

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HANFORD SITE POLLUTION PREVENTION TEAM MEMBERS
Report Period 07/01/94 to 06/30/95

Member: T. J. Lazarski (Tom) Company: PNL
 Office Phone: 376-9854

Responsibilities:
300 Area Storm Water Outfalls A-D
100-F Area Storm Water Outfall J

Member: G. S. Hunacek (Jerry) Company: WHC
 Office Phone: 373-1623

Responsibilities:
100 K Area Spills and Releases

Member: J. P. Zoric (Joe) Company: BHI
 Office Phone: 373-4315

Responsibilities:
Investigation of reported spills, releases, reporting, investigating
and oversight of spill cleanup in 100 Areas (except otherwise
specified in this report.)

Member: M. R. Gunter (Michelle) Company: ICF KH
 Office Phone: 372-3960

Responsibilities:
300 Area Storm Water Outfalls E-J
300 Area Spills and Releases
100 B/C Area Storm Water Outfalls D-E
100 D Area Storm Water Outfall C

Member: N. M. Menard (Nina) Company: WHC
 Office Phone: 372-3627

Responsibilities:
Coordination of Pollution Prevention Team Meetings
Compilation of Comprehensive Site Compliance Evaluation Report

Member: K. S. Tollefson (Kathy) Company: WHC
 Office Phone: 372-2234

Responsibilities:
Coordination of Pollution Prevention Team Meetings
Compilation of Comprehensive Site Compliance Evaluation Report

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APPENDIX 2

HANFORD SITE STORM WATER COMPREHENSIVE SITE COMPLIANCE EVALUATION RESULTS
FOR THE REPORTING PERIOD JULY 1, 1994 THROUGH JUNE 30, 1995
(CONTAINS THE INDIVIDUAL OUTFALL DESCRIPTION AND CURRENT STATUS)

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SURVEY SUMMARY FOR THE 100-B AND 100-C AREAS

Performed by: J. P. Zoric, Outfalls A-C
M. R. Gunter, Outfalls D, E
 Report Period: July 1, 1994 - June 30, 1995

Inspection Date: May 17, 1995
July 5, 1995

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status Inspection Date:	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-1, Sheet 2	A	1	Storm water runoff would flow over riprap to close proximity of the river. The riprap was located in the area of the 116-C-4 Outfall. (Incorrectly identified in the baseline SWPPP as the 132-C-2 Outfall) On the terrace above the riprap was a roped-off area that was posted "Danger - Keep Away." The riprap created a channel toward the river and was comprised of irregularly shaped 0.3 to 0.9 meter (one to three feet) diameter rocks. The riprap was approximately six meters (20 feet) wide and was moderately sloped to the river.	None identified.	It was determined no pollutant source exists, so no action is necessary.

SURVEY SUMMARY FOR THE 100-B AND 100-C AREAS

Performed by: J. P. Zoric, Outfalls A-C
M. R. Gunter, Outfalls D, E
 Report Period: July 1, 1994 - June 30, 1995

Inspection Date: May 17, 1995
July 5, 1995

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status Inspection Date:	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-1, Sheet 2	B	2	Storm water runoff would flow over riprap to within meters of the river. The riprap is in the area of the 116-B-8 Outfall which has been demolished and covered with dirt. (Incorrectly identified in the baseline SWPPP as the 132-B-6 Outfall, formerly known as 1904-B) On the terrace above the riprap was a 9 x 9 meter (30 x 30 foot) roped-off area that is posted "Surface Contamination." This site is identified in the Quarterly Environmental Radiological Survey Summary (WHC-SP-0665-11). The riprap is comprised of irregularly shaped 0.3 to 0.9 meter (one to three feet) diameter rocks. The riprap and extensions of the bank created several channels that came together half-way down the bank to form a single riprap channel approximately 12 meters (40 feet) wide that led to the river.	Radiological surface contamination area.	This outfall has been demolished and covered with dirt. There is no access to the river. No further action is planned at this time.

SURVEY SUMMARY FOR THE 100-B AND 100-C AREAS

Performed by: J. P. Zoric, Outfalls A-C
M. R. Gunter, Outfalls D, E
 Report Period: July 1, 1994 - June 30, 1995

Inspection Date: May 17, 1995
July 5, 1995

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status Inspection Date:	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-1, Sheet 3	C	3	At the top of the gently-to-moderate sloped bank, above the flume, is the concrete outfall structure. This area is labelled on selected maps as the "116-B-7 Outfall." It is fenced and posted as "Surface Contamination". This site is identified in the Quarterly Environmental Radiological Survey Summary (WHC-SP-0665-11). The configuration of the outfall structure is such that storm water coming in contact with the interior of the structure would not overflow to the bank and reach the river.	Radiological surface contamination area.	There is no pathway for the surface contamination to reach the river, so no immediate action is planned.
Figure A-1, Sheet 3	D	4	This discharge location will be eliminated in Rev. 1 of the SWPPP. (10/95). The discharge was determined to be unused process wastewater, and does not receive storm water.	None identified.	No action is required.

SURVEY SUMMARY FOR THE 100-B AND 100-C AREAS

Performed by: J. P. Zoric, Outfalls A-C
M. R. Gunter, Outfalls D, E
 Report Period: July 1, 1994 - June 30, 1995
 Inspection Date: May 17, 1995
July 5, 1995

WHC-SD-EN-EE-015, Rev. 0

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status Inspection Date:	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-1, Sheet 3	E	5	Stormwater runoff would come in contact with Building 181-B and surrounding materials. The north side of the facility is in direct contact with the river. A gravel/asphalt parking lot is located on the south side of the facility. Stormwater would drain from this parking lot through a hole in a concrete wall (attached to Building 181-B) to the river. Transformers located to the northeast of Building 181-B have secondary containment that drains to a septic tank.	None identified	No action is required.

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SURVEY SUMMARY OF 100-D AND 100-DR AREAS

Performed by: J. P. Zoric, Outfalls A, B
M. R. Gunter, Outfall C
 Report Period: July 1, 1994 - June 30, 1995

Inspection Date: May 17, 1995
July 5, 1995

WHC-SD-EN-EE-015, Rev. 0

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-4, Sheet 2	A	1	A concrete flume, which is labelled on selected maps as "116-DR-5," extends from the bank into the river. The flume is surrounded by natural vegetation and river rock. The concrete walls would channel storm water flow into the river. The river bank is moderately sloped.	None identified.	No action is planned because there is no source of contamination.
Figure A-4, Sheet 2	B	2	A concrete flume, which is labelled on selected maps as "116-D-5" outfall, formerly called 1904-D, extends from the bank into the river. The concrete walls would channel storm water flow into the river. At the river's edge, concrete has been crudely poured into the flume in an apparent attempt to cover the flume and block flow. The flume is surrounded by natural vegetation and river rock. The river bank is moderately sloped. This area was incorrectly identified in the baseline SWPPP as being fenced and posted as "Surface Contamination". The actual posting is "Underground Radioactive Material".	Underground Radioactive material.	There is no source of contamination which storm runoff can carry to the river. No action is planned.

SURVEY SUMMARY OF 100-D AND 100-DR AREAS

Performed by: J. P. Zoric, Outfalls A, B

M. R. Gunter, Outfall C

Report Period: July 1, 1994 - June 30, 1995

Inspection Date: May 17, 1995

July 5, 1995

WHC-SD-EN-EE-015, Rev. 0

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-4, Sheet 3	C	3	Stormwater runoff would come in contact with Building 181-D and surrounding materials. The north side of the building is in direct contact with the river. A gravel parking lot was located on the south side of the facility. Old and new transformers are located on the south side of the building. The older transformers containing PCB's have secondary containment. The newer transformers have no secondary containment but are not a pollutant source.	None identified	No action required

SURVEY SUMMARY FOR 100-F AREA

Performed by: J. P. Zoric, Outfalls A-I
T. J. Lazarski, Outfall J-15
 Report Period: July 1, 1994 to June 30, 1995

Inspection Date: May 18, 1995
May 24, 1995

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-6, Sheet 2	A	1	Will be eliminated from Rev. 1 of the SWPPP (10/95). An open 25 centimeter (10 inch) diameter pipe is present with no visible outfall. The surrounding area was initially (1993) reported to be covered with black pea-gravel over black tarp liner. There is a small area with black plastic staked down which appears to be a cross for aerial survey's. No moderately built-up area was apparent except for a sand dune. The river bank slopes steeply to the river.	None identified.	No contamination is evident in the area. No action is required.
Figure A-6, Sheet 2	B	2	Will be eliminated from Rev. 1 of the SWPPP (10/95). An open 15 centimeter (six inch) diameter pipe extends vertically from the ground and has a log jammed into its opening. The surrounding area is covered by natural vegetation or gravel. During the 1995 inspection, the pipe could not be located. The area is remote with little possibility of contamination.	None identified.	No action, 200 meters (656 feet) from the river, no source of contamination.

SURVEY SUMMARY FOR 100-F AREA

Performed by: J. P. Zoric, Outfalls A-I
I. J. Lazarski, Outfall J-15
 Report Period: July 1, 1994 to June 30, 1995

Inspection Date: May 18, 1995
May 24, 1995

WHC-SD-EN-EE-015, Rev. 0

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-6, Sheet 2	B	3	Will be eliminated from Rev. 1 of the SWPPP (10/95). In the initial survey, a rusty, unlabelled dilapidated 55-gallon drum was present. The drum was open, lying on its side and appeared to contain dirt. During the 1995 inspection the drum could not be located. The area is very remote and is 100's of meters from the river. Area identified as natural habitat.	None identified.	No action is required.

SURVEY SUMMARY FOR 100-F AREA

Performed by: J. P. Zoric, Outfalls A-I
I. J. Lazarski, Outfall J-15
 Report Period: July 1, 1994 to June 30, 1995
 Inspection Date: May 18, 1995
May 24, 1995

WHC-SD-EN-EE-015, Rev. 0

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-6, Sheet 3	B	4	The 118-F-5 Area is located 154 meters (500 feet) from a drainage channel to the river. The area appears as a flattened burial mound and is covered with gravel. Buried waste at this site is covered by approximately 4.5 meters (15 feet) of clean material. The baseline SWPPP incorrectly identified the site as being posted "Surface Contamination." It is actually posted as "Underground Radioactive Material."	Underground Radioactive Material.	No source of contamination. No action is planned.
Figure A-6, Sheet 4	C	5	Located outside the NE corner of 107-F is a roped-off area that is posted "Controlled Area." The area is covered with gravel and slopes gently toward the river.	None identified.	No action is required.
Figure A-6, Sheet 4		6	The gravel lot has been built-up over an area identified on some maps as the "Animal Waste Leaching Trench."	Animal Waste Leaching Trench.	No action is planned.

SURVEY SUMMARY FOR 100-F AREA

Performed by: J. P. Zoric, Outfalls A-I
T. J. Lazarski, Outfall J-15
 Report Period: July 1, 1994 to June 30, 1995

Inspection Date: May 18, 1995
May 24, 1995

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-6, Sheet 4	D	7	The Pollutant Source and the associated Point Source Conveyance will be eliminated in Rev. 1 of the SWPPP (10/95) with the drainage area for discharge location E outlined. Seven 55-gallon drums were present in the initial survey that were labeled as containing decontamination water. These drums have since been removed. Discharge location D is an outfall area for Point Source C,5.	None identified.	No action required.
Figure A-6, Sheet 4	E	8	The Pollutant Source and the associated Point Source Conveyance will be eliminated in Rev. 1 of the SWPPP (10/95) with the drainage area for discharge location E outlined. A 55-gallon drum was present in the initial survey that was labeled as containing decontamination water. The drum has been removed. Discharge location E is an outfall area for Point Source C,5.	None identified.	No action required.

SURVEY SUMMARY FOR 100-F AREA

Performed by: J. P. Zoric, Outfalls A-I
T. J. Lazarski, Outfall J-15
 Report Period: July 1, 1994 to June 30, 1995

Inspection Date: May 18, 1995
May 24, 1995

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-6, Sheet 4	F	9	A concrete flume extended from the riverbank into the river. The concrete walls would channel storm water runoff flow. The flume is surrounded by river rock and the riverbed. According to facility maps, the flume was previously a discharge point for cooling water from 107-F. The outfall is labeled 116-F-8.	None identified.	No known source of contamination. No action required.
Figure A-6, Sheet 4	G	10	Will be eliminated from Rev. 1 of the SWPPP (10/95). This is not an outfall. This site is a river stage recorder (part of the 116-F-6 Outfall). The shielded electronic cable does not conduct storm water runoff to the river.	None identified.	Not Applicable
Figure A-6, Sheet 4		11	A concrete flume extends from the riverbank into the river. The concrete walls would channel stormwater runoff flow. The flume, which is labeled as the "PNL Outfall" on some site maps, is surrounded by river rock and riverbed.	None identified.	No know source of contamination. No action planned.

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SURVEY SUMMARY FOR 100-F AREA

Performed by: J. P. Zoric, Outfalls A-I
T. J. Lazarski, Outfall J-15
 Report Period: July 1, 1994 to June 30, 1995

Inspection Date: May 18, 1995
May 24, 1995

WHC-SD-EN-EE-015, Rev. 0

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-6, Sheet 5	H	12	An open 20 centimeter (eight inch) diameter vertical pipe extends from the ground in an area to the north of the demolished 181-F Intake Facility. The area surrounding the pipe is covered by rock and natural vegetation. The pipe was probably once connected to the demolished 181-F Intake Facility.	None identified.	Given the inactive status and no process operations at 100-F, there appears to be no source that could discharge from this pipe. No action is planned.
Figure A-6, Sheet 5		13	Another open 20 centimeter (eight inch) diameter vertical pipe extends from the ground in an area to the north of the demolished 181-F Intake Facility. The area surrounding the pipe is covered by rock and natural vegetation. The pipe was probably once connected to the demolished 181-F Intake Facility.	None identified.	Given the inactive status and no process operations at 100-F, there appears to be no source that could discharge from this pipe. No action is planned.

SURVEY SUMMARY FOR 100-F AREA

Performed by: J. P. Zoric, Outfalls A-I
I. J. Lazarski, Outfall J-15
 Report Period: July 1, 1994 to June 30, 1995

Inspection Date: May 18, 1995
May 24, 1995

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-6, Sheet 5	I	14	Will be eliminated in Rev. 1 of the SWPPP (10/95). Large concrete blocks and piping materials were strewn on the steep, rocky bank. Storm water runoff in contact with this material would drain directly to the river. The site was again visited in 9/95. It was determined at that time that the material exists, but should not be included as a pollution source or a discharge location.	None identified.	No source of contaminants. No action is planned. The baseline SWPPP (3/93) suggested removing materials as possible and covering remaining items.
Figure A-6, Sheet 6	J	15	Storm water runoff drains to the river via a paved boat ramp, which is adjacent to the WBF-1 and WBF-2 Buildings. The area is moderately sloped and consists of parking and roadways that are gravel. This outfall results from non-industrial sources.	None identified.	No action is planned.

SURVEY SUMMARY FOR THE 100-H AREA

Performed by: J. P. Zoric
 Report Period: July 1, 1994 - June 30, 1995

Inspection Date: May 18, 1995

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-5, Sheet 2	A	1	A 13 centimeter (five inch) diameter pipe is present that would discharge to a 3-sided concrete dry well. A natural drainage channel is visible that extends from the dry well to the River. The area is gently sloped with dirt, river rocks and natural vegetation, which includes a couple of trees. Believed to be a Hanford Irrigation District weir box left from the pre-Manhattan Project era.	None identified.	No surface or process source exists today. No action required.
Figure A-5, Sheet 2	B	2	Will be eliminated in Rev. 1 of the SWPPP (10/95). This site is a river stage recorder with an electronic cable encased in a five centimeter (two inches) diameter pipe. This pipe shields the cable and does not conduct storm water runoff into the river.	None identified.	Not Applicable.

SURVEY SUMMARY FOR THE 100-H AREA

Performed by: J. P. Zoric
 Report Period: July 1, 1994 - June 30, 1995

Inspection Date: May 18, 1995

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-5, Sheet 2	C	3	An open 30 centimeter (12 inch) diameter pipe is embedded in a concrete square and is located at the top of the river bank. It has been identified as a culvert draining the upland side of the adjacent road. The upper portion of the bank has a natural ravine that extends from the head of the pipe. The upper portion of the bank is steeply sloped and the lower portion is moderately sloped toward the river. The area is covered with river rock and natural vegetation.	None identified.	No contamination is evident in the area. No action is required.
Figure A-5, Sheet 2	D	4	Storm water runoff would flow over the remnants of the demolished 116-H-5 structure. The remnants include concrete steps and large concrete blocks. Additional rock has been placed as riprap on the slope. The bank is moderately sloped until the steep wall of the large concrete blocks. Below the concrete blocks, the bank is relatively flat.	Sediments	Riprap acts as BMP to decrease runoff velocity and stabilize slope. No further action is planned. There is no source of contamination.

SURVEY SUMMARY FOR THE 100-H AREA

Performed by: J. P. Zoric

Report Period: July 1, 1994 - June 30, 1995

Inspection Date: May 18, 1995

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Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-5, Sheet 2	E	5	Storm water runoff would flow over the riprap to within feet of the river. According to the maps, the riprap was probably placed over the remnants of the demolished 116-H-5. The riprap is moderately sloped with virtually no vegetation.	Sediments.	No action is necessary. Riprap acts as BMP to decrease runoff velocity and stabilize slope.
Figure A-5, Sheet 3	F	6	A 33 centimeter (thirteen inch) diameter "closed" corrugated pipe is embedded in a square concrete block located at the top of the river bank. The end of the pipe has a piece of sheet metal covering the majority of the opening. It has been identified as a culvert draining the upland side of the adjacent road. The bank below is moderately sloped with natural vegetation.	None identified.	No contamination is evident in this area. No action is required.

SURVEY SUMMARY FOR THE 100-H AREA

Performed by: J. P. Zoric
 Report Period: July 1, 1994 - June 30, 1995

Inspection Date: May 18, 1995

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-5, Sheet 3	G	7	Storm water runoff would flow from a gravel roadway and terrace area through an erosion area that surrounds a concrete headwall on the river bank, draining the upland side of the adjacent road. The erosion begins within feet of the gravel roadway and has removed rock and soil behind the concrete headwall. Near the roadway the bank is steeply sloped. Below the headwall the bank is moderately sloped to the river. The bank is covered with natural vegetation.	Sediments.	No contamination is evident in the area. No action is required.
Figure A-5, Sheet 3	H	8	A 33 centimeter (13 inch) diameter "closed" corrugated pipe is embedded in a square concrete block located near the top of the river bank. The end of the pipe has a piece of sheet metal covering the majority of the opening. It has been identified as a culvert draining the upland side of the adjacent road. The bank below is moderately sloped with natural vegetation.	None identified.	No contamination is evident in this area. No action is required.

SURVEY SUMMARY FOR THE 100-H AREA

Performed by: J. P. Zoric
 Report Period: July 1, 1994 - June 30, 1995

Inspection Date: May 18, 1995

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-5, Sheet 3	I	9	A 15 centimeter (six inch) diameter pipe of unknown origin extends horizontally out of the river bank. The discharge point is approximately 3 meters (10 feet) below the top of the bank. The pipe does not appear to be supported and is not covered or capped. It is believed to be an old storm water culvert from construction days. The bank is moderately sloped with natural vegetation.	None identified.	Given the inactive status and no process operations at 100-H, there appears to be no source that could discharge from this pipe. No action is necessary.
Figure A-5, Sheet 3	J	10	A 46 centimeter (18 inch) diameter corrugated pipe of unknown origin extends horizontally out of the river bank. The discharge point is near the top of the bank and approximately 40 meters (131 feet) from the river. The pipe does not appear to be supported and is not covered or capped. The upper portion of the bank is moderately sloped and is covered with river rock and dirt. The lower portion of the bank is gently sloped with natural vegetation.	Sediments.	No source of contamination. No action is planned.

SURVEY SUMMARY FOR THE 100-H AREA

Performed by: J. P. Zoric
 Report Period: July 1, 1994 - June 30, 1995

Inspection Date: May 18, 1995

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Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-5, Sheet 4	K	11	Will be eliminated in Rev. 1 of the SWPPP (10/95). A five centimeter (two inch) diameter pipe extends into the river from a capped monitoring well (labelled "9-6-88"). A 91 centimeter (three foot) square concrete pad surrounds the monitoring well at ground level. The pipe is attached to the concrete pad on the northwest side. The area is relatively flat and covered with natural vegetation.	None identified.	Not a point of discharge. No source of contamination. No action is planned.
Figure A-5, Sheet 4		12	Will be eliminated in Rev. 1 of the SWPPP (10/95). A five centimeter (two inch) diameter pipe extends into the river. The pipe is coupled to a 2.5 centimeter (one inch) diameter flexible hose that is attached to a weather/monitoring station. The pipe is supported by an external brace near the river. This site is a monitoring recorder with an electric cable encased in a pipe. The pipe shields the cable and does not conduct storm water runoff into the river.	None identified.	No action is planned because there is no pathway to the river nor is there a source of contamination. This location is not a storm water outfall and will be eliminated from the SWPPP.

SURVEY SUMMARY FOR THE 100-H AREA

Performed by: J. P. Zoric

Report Period: July 1, 1994 - June 30, 1995

Inspection Date: May 18, 1995

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Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-5, Sheet 4	L	13	An area of the river bank near Well 99-42 is covered with rubble, which is comprised of wood and metal. Storm water runoff would be in contact with these materials prior to flowing to the river. The bank is moderately steep and is covered predominantly with river rock.	Metal	Metal should be cleaned up.

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SURVEY SUMMARY FOR 100-KE AND 100-KW AREAS

Performed by: J. P. Zoric, Outfalls A, B, and D-G
G. S. Hunacek, Outfalls C-6 and 7
 Report Period: July 1, 1994 - June 30, 1995

Inspection Date: May 17, 1995

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-2, Sheet 2	A	1	A 41 centimeter (16 inch) culvert is present west of 100-K perimeter access road and east of 107-KE access road. Outfall is the floodplain just north of the perimeter access road. Areas potentially drained from this culvert are in radiological surface contamination areas. No source of runoff other than from precipitation is expected.	Radiological surface contamination area.	Surface contamination is currently being removed from this area. Outfall is approximately 320 meters (1,050 feet) from the river and is not a storm water discharge to the river. No additional action is planned.
Figure A-2, Sheet 2		2	A 41 centimeter (16 inch) culvert is present south of 100-K perimeter access road around the 107-KE retention basins. Outfall is the floodplain just north of perimeter access road. Areas potentially drained from this culvert are in radiological surface contamination areas. No source of runoff other than from precipitation is expected.	Radiological surface contamination area.	Surface contamination is currently being removed. Outfall is approximately 200 meters (656 feet) from the river and is not a storm water discharge to the river. No additional action is planned.

WHC-SD-EN-EE-015, Rev. 0

SURVEY SUMMARY FOR 100-KE AND 100-KW AREAS

Performed by: J. P. Zoric, Outfalls A, B, and D-G
G. S. Hunacek, Outfalls C-6 and 7
 Report Period: July 1, 1994 - June 30, 1995

Inspection Date: May 17, 1995

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-2, Sheet 2	B	3	An eroded trench is present immediately north and east of the 1908-K outfall structure. This erosion was due to overflow during maximum water usage when the 100-K reactors were running. Since the reactors are no longer running, the overflow trench is no longer in use. Posted as a Radiological Contamination Area.	Radiological Contamination Area.	There is no discharge to the trench, no action is necessary.
Figure A-2, Sheet 2		4	Will be eliminated from Rev. 1 of the SWPPP (10/95). Two tandem 91 centimeter (36 inch) pipes are present on north side of 1908-K outfall structure, elbowed and reaching to surface level. Per WHC operations, these were probably part of the overflow system that is no longer in use.	None identified.	No action necessary, pipes are approximately 150 meters (492 feet) from the river and are not storm water discharges to the river.
Figure A-2, Sheet 2	C	6	Will be eliminated from Rev. 1 of the SWPPP (10/95). Permitted under a separate NPDES Permit.	Not Applicable	Not Applicable
Figure A-2, Sheet 3		7	Will be eliminated from Rev. 1 of the SWPPP (10/95). Permitted under a separate NPDES Permit.	Not Applicable	Not Applicable

SURVEY SUMMARY FOR 100-KE AND 100-KW AREAS

Performed by: J. P. Zoric, Outfalls A, B, and D-G
G. S. Hunacek, Outfalls C-6 and 7
 Report Period: July 1, 1994 - June 30, 1995

Inspection Date: May 17, 1995

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-2, Sheet 2	C	8	Will be eliminated from Rev. 1 of the SWPPP (10/95). A 30 centimeter (12 inch) pipe from 105 KE area is present that would drain near one of the major inlet pipes at 181-KE. Status: Capped at source near 105-KE.	None identified.	Pipe is capped at 105-KE per initial report. No further action is necessary.
Figure A-2, Sheet 2	D	5	Will be eliminated from Rev. 1 of the SWPPP (10/95). The drums have been removed.	None identified	None
Figure A-2, Sheet 3	E	9	A 41 centimeter (16 inch) culvert is present that would drain the area south of 100-K perimeter access road around the 107-KW retention basins. The outfall is the floodplain just north of perimeter access road. Areas potentially drained from this culvert are in radiological surface contamination areas. No source of runoff other than from precipitation is expected.	Radiological surface contamination area.	One hundred and fifty meters (492 feet) from the river, no action is necessary.

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SURVEY SUMMARY FOR 100-KE AND 100-KW AREAS

Performed by: J. P. Zoric, Outfalls A, B, and D-G
G. S. Hunacek, Outfalls C-6 and Z
 Report Period: July 1, 1994 - June 30, 1995

Inspection Date: May 17, 1995

WHC-SD-EN-EE-015, Rev. 0

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-2, Sheet 3	F	10	A 41 centimeter (16 inch) culvert is present that would drain the area south of 100-K perimeter access road just east of 181-KW access road. The outfall is the floodplain just north of perimeter access road. Areas potentially drained from this culvert are not in radiological surface contamination areas, although the outfall is in a radiological surface contamination area.	Radiological surface contamination area.	One hundred and sixty meters (525 feet) from the river, no action is necessary.
Figure A-2, Sheet 3		12	A 1.21 meter x 1.21 meter x 1.83 meter (4' x 4' x 6') basin is present in deck of 181-KW pier with outfall through 61 centimeter (24 inch) pipe east and down to embankment then out to the river. Asbestos-wrapped pipes on deck. The basin is not permitted like its 181-KE counterpart and is not capped. Runoff from 108-KW pier surfaces is expected to outfall directly to the river.	Asbestos-wrapped pipes.	Asbestos abatement is completed at this location. No source of contaminants. No further action is planned.

SURVEY SUMMARY FOR 100-KE AND 100-KW AREAS

Performed by: J. P. Zoric, Outfalls A, B, and D-G
G. S. Hunacek, Outfalls C-6 and 7
 Report Period: July 1, 1994 - June 30, 1995

Inspection Date: May 17, 1995

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Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-2, Sheet 2	F	13	A 3-in. diameter pipe with a valve adjacent to the 181-KW fence was present on the east side. Reported to be a duplicate of C-7. C-7 is in East Area.	None identified.	Given the inactive status of the 181-KE Building (no operating equipment) discharge from this pipe is highly unlikely.
Figure A-2, Sheet 2		14	Will be eliminated from Rev. 1 of the SWPPP (10/95). A 30 centimeter (12 inch) pipe from 105-KW Area is present that would drain near one of the major inlet pipes at 181-KW. Status: Capped at source near 105-KW.	None identified.	Capped at 105-KW, per the initial report. No further action is necessary.
Figure A-2, Sheet 2	G	11	A 41 centimeter (16 inch) culvert is present that would drain the area south of 100-K perimeter access road at north west corner of 100-K controlled area, with outfall west of 181-KW access road. Areas potentially drained from this culvert were not in radiological surface contamination areas and the outfall is not in a radiological contamination area.	None identified.	One hundred and twenty meters (394 feet) from the river, no source of contamination. No action is necessary.

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SURVEY SUMMARY FOR 100-N AREA

Performed by: J. P. Zoric
 Report Period: July 1, 1994 to June 30, 1995

Inspection Date: May 17, 1995

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-3, Sheet 2	A	1	Will be eliminated in Rev. 1 of the SWPPP (10/95). Site has been returned to its natural state.	None	No action necessary
Figure A-3, Sheet 2		2	Will be eliminated in Rev. 1 of the SWPPP (10/95). Erosion point in terrace that drained to a sump or the riverbank. Erosion was caused at this site by an excess of snow (from snow removal actions) which was moved to the terrace and allowed to melt. This was an unusual happening because of the record snowfall. Posted radiological contamination zone.	Radiological contamination area.	A management action has been taken to prevent the snow accumulation at the top of the terrace. No further action is planned.
Figure A-3, Sheet 2		3	Will be eliminated in Rev. 1 of the SWPPP (10/95). Erosion point in terrace that drained to a sump or riverbank. Erosion was caused at this site by an excess of snow (from snow removal actions) which was moved to the terrace and allowed to melt. This was an unusual happening because of the record snowfall. Posted radiological contamination zone.	Radiological contamination area.	A management action has been taken to prevent the snow accumulation at the top of the terrace. No further action is planned.

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SURVEY SUMMARY FOR 100-N AREA

Performed by: J. P. Zoric
 Report Period: July 1, 1994 to June 30, 1995

Inspection Date: May 17, 1995

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-3, Sheet 2	A	4	Will be eliminated in Rev. 1 of the SWPPP (10/95). Erosion point in terrace that drained to a sump or the riverbank. Erosion was caused at this site by an excess of snow (from snow removal actions) which was moved to the terrace and allowed to melt. This was an unusual happening because of the record snowfall. Posted radiological contamination zone.	Radiological contamination area.	A management action has been taken to prevent the snow accumulation at the top of the terrace. No further action is planned.
Figure A-3, Sheet 2	B	5	Will be eliminated in Rev. 1 of the SWPPP (10/95). 30 centimeter (12 inch) capped abandoned process pipe.	None identified.	It is not a storm water source. No action required.
Figure A-3, Sheet 2		6	Will be eliminated in Rev. 1 of the SWPPP (10/95). Erosion point in terrace that drained to a sump or the riverbank. Posted radiological contamination zone.	Radiological contamination area.	Terrace has been repaired and proper drainage path has been re-established. No pollutant source. No further action is planned.
Figure A-3, Sheet 2	C	7	Will be eliminated in Rev. 1 of the SWPPP (10/95). 20 centimeter (eight inch) pipe had multiple connections. Previously used to pump diesel fuel from barges on the river to 166-N storage tank. Current status: abandoned.	None identified.	Abandoned process piping. No pollutant source. No action required.

SURVEY SUMMARY FOR 100-N AREA

Performed by: J. P. Zoric

Report Period: July 1, 1994 to June 30, 1995

Inspection Date: May 17, 1995

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Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-3, Sheet 3	D	8	Erosion point in terrace that drains from the storage area to the riverbank. Drains to E-9	Sediments	Repair erosion point. This BMP must be scheduled.
Figure A-3, Sheet 3	E	9	Major erosion point in terrace that drained to riverbank. Potential drainage from adjacent waste storage, non-waste storage, and shipping areas via local gutters. Dry well that drained this area was plugged, so overflow ran to this erosion point.	Area certified clean. None identified.	Erosion area has been regraded. No pollutant source. No further action is required.
Figure A-3, Sheet 3		10	Erosion point in terrace that drains to riverbank.	Sediments.	Eroded area has been repaired and designed flow path has been re-established. No further action is required.
Figure A-3, Sheet 3	F	11	Five centimeter (two inch) pipe. Previously used in leak detection system for 1304-N tank. Status: abandoned process piping. Frozen outfall (large icicle) indicates runoff. Inside of 1304-N is considered a radiological contamination zone.	Radiological contamination zone (pipe).	No water source. Icicle resulted from condensation or precipitation on outside of pipe. No action is planned.

SURVEY SUMMARY FOR 100-N AREA

Performed by: J. P. Zoric
 Report Period: July 1, 1994 to June 30, 1995

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Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-3, Sheet 3	F	12	Four centimeter (1½ inch) pipe that was previously used in leak detection system for 1304-N tank. Status: abandoned. Pipe was dry. Inside of 1304-N is considered a radiological contamination zone.	Asbestos-wrapped pipe radiological contamination zone.	Abandoned process piping. No rainwater source. No action required.
Figure A-3, Sheet 3		13	15 centimeter (six inch) pipe. Drain for 1304-N Tank. Status: valve closed. Inside of 1304-N is considered a radiological contamination zone. Pipe was dry.	Radiological contamination zone.	Abandoned process piping. No rainwater source. No action required.
Figure A-3, Sheet 3	G	14	Flume for outfall from 1908-N diversion system to river. Current status: Outfall 008 has been discontinued and is no longer permitted under NPDES.	None identified.	No rainwater source. Outfall abandoned. No action required.
Figure A-3, Sheet 3	H	15	Will be eliminated in Rev. 1 of the SWPPP (10/95). Pipe for discharge of 181-N/183-N backwash water to river. Current status: NPDES permitted Outfall 007.	Monitored.	Abandoned process piping. No rainwater source. This outfall is NPDES permitted and will be deleted from the SWPPP.
Figure A-3, Sheet 4	I	16	2.54 centimeter (one inch) plastic pipe. Previously used as inlet for river water sampling. Current status: abandoned.	None identified.	Abandoned process piping. No rainwater source. No action required.

SURVEY SUMMARY FOR 100-N AREA

Performed by: J. P. Zoric
 Report Period: July 1, 1994 to June 30, 1995

Inspection Date: May 17, 1995

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-3, Sheet 4	I	17	Five centimeter (two inch) iron pipe. Current status: unidentified.	None identified.	Abandoned process piping. No rain water source. No action required.
Figure A-3, Sheet 4		18	1.3 centimeter (0.5 inch) plastic pipe. Previously used as inlet for river water sampling. Current status: abandoned.	None identified.	Abandoned process piping. No rainwater source. No action required.
Figure A-3, Sheet 4		19	30 centimeter (12 inch) culvert drains from south of 181-N to the riverbank. Current status: receives drainage from terrace above and potentially from radiological contamination area near 1304-N.	Possible Radiological Contamination.	No rainwater source. No action required.
Figure A-3, Sheet 4		20	Ten centimeter (four inch) iron pipe. Abandoned process piping.	None identified.	No rainwater source. No action required.
Figure A-3, Sheet 4		21	Ten centimeter (four inch) iron pipe. Abandoned process piping.	None identified.	No rainwater source. No action required.
Figure A-3, Sheet 4		22	Five centimeter (two inch) iron pipe. Previously used for return line of sampling water received from river water sampling. Current status: abandoned.	None identified.	Abandoned process piping. No rainwater source. No action required.

SURVEY SUMMARY FOR 100-N AREA

Performed by: J. P. Zoric
 Report Period: July 1, 1994 to June 30, 1995

Inspection Date: May 17, 1995

WHC-SD-EN-EE-015, Rev. 0

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-3, Sheet 4	J	23	30 centimeter (12 inch) pipe with screen. Status: abandoned. Believed to be a drainage line from 181-N.	None identified.	Abandoned process piping. No rainwater source. No action required.
Figure A-3, Sheet 4		24	30 centimeter (12 inch) pipe, capped. Status: abandoned. Believed to be a drainage line from 181-N.	None identified.	Abandoned process piping. No rainwater source. No action required.
Figure A-3, Sheet 4		25	30 centimeter (12 inch) pipe. Status: abandoned. Believed to be a drainage line from 181-N.	None identified.	Abandoned process piping. No rainwater source. No action required.
Figure A-3, Sheet 4	K	26	6.35 centimeter (2½ inch) pipe. Current status: Abandoned process piping, raw water return from 182-N.	None identified.	No rainwater source. No action required.
Figure A-3, Sheet 4	L	27	15 centimeter (six inch) aluminum pipe. Current status: Abandoned process piping, 182-N water tank system.	None identified.	No rainwater source. No action required.

SURVEY SUMMARY FOR 300 AREA

Performed by: I. J. Lazarski, Outfalls A-D
M. R. Gunter, Outfalls E-J
 Report Period: July 1, 1994 - June 30, 1995

Inspection Date: May 11, 1995

WHC-SD-EN-EE-015, Rev. 0

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-7, Sheet 2	A	1	An underground pipe drains storm water from the roadway area between the north side of Building 331-C and the south side of Building 331 to an open trench that runs east to west between Buildings 331-D and 331-E. The open trench is piped to a culvert passing beneath a gravel roadway and the perimeter fence. The discharge was approximately 46 meters (150 feet) from the river. The bank was moderately sloped with natural vegetation. This outfall results from non-industrial sources.	None identified.	No action planned.
Figure A-7, Sheet 2	B	2	Located southeast of Building 331, a 38 centimeter (15 inch) diameter pipe in a drainage ditch allows runoff from the paved parking area, which has a large gravel border, to drain to the river. The bank is moderately sloped with natural vegetation. This outfall results from non-industrial sources.	None identified.	No action planned.

SURVEY SUMMARY FOR 300 AREA

Performed by: I. J. Lazarski, Outfalls A-D
M. R. Gunter, Outfalls E-J
 Report Period: July 1, 1994 - June 30, 1995

Inspection Date: May 11, 1995

WHC-SD-EN-EE-015, Rev. 0

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-7, Sheet 2	C	3	Will be eliminated from Rev. 1 of the SWPPP (10/95). This piped discharge from the 331 Building Aquaculture Facility is permitted according to NPDES Permit No. WA-000374-3 as Outfall 013. The monitored discharge point draining to the river is located at the center of the spillway at the face of a concrete wall. The area is gently sloped with significant natural vegetation. This outfall results from non-industrial sources.	None identified.	This outfall will be removed from the SWPPP as it is listed under a separate NPDES permit.
Figure A-7, Sheet 2	D	4	Storm water from the paved parking area located northeast of Building 331 flows out a channelled opening in the concrete curb and a 30 centimeters (12 inch) pipe into a ditch, draining under a graveled road in a 38 centimeters (15 inch) pipe to another ditch with a 30 centimeter (12 inch) pipe heading toward the river. The area is gently sloped with natural vegetation. This outfall results from non-industrial sources.	None identified.	No action planned.

SURVEY SUMMARY FOR 300 AREA

Performed by: T. J. Lazarski, Outfalls A-D
M. R. Gunter, Outfalls E-J
 Report Period: July 1, 1994 - June 30, 1995

Inspection Date: May 11, 1995

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-7, Sheet 3	E	5	New parking lot was installed in 1994 with grass planted between the parking area and the river to reduce runoff.	None identified.	Periodic visual inspections will be performed to assess runoff.
Figure A-7, Sheet 3	F	6	A sump that received the 309 Process sewer discharge has been abandoned in-place. Runoff will not enter this sump because of a raised concrete slab. When the new parking lot was constructed in 1994, grass was planted between the parking lot and the river to reduce runoff.	None identified.	No action planned.
Figure A-7, Sheet 3	G	7	Storm water runoff would flow from an area at the eastern end of Locust Street over a dirt road that slopes gently towards the river. The road provides access to the river and the 312 Intake structure. Construction is taking place at the eastern end of Locust Street, increasing the amount of runoff from the area. Lower portions of the bank are gently sloped and covered with natural vegetation.	None identified.	Will perform periodic visual inspection to assess runoff.

SURVEY SUMMARY FOR 300 AREA

Performed by: T. J. Lazarski, Outfalls A-D
M. R. Gunter, Outfalls E-J
 Report Period: July 1, 1994 - June 30, 1995

Inspection Date: May 11, 1995

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-7, Sheet 3	H	8	A steeply sloped bank east of the 315 Building has significant erosion. There are four distinct erosion areas in which storm water flows towards the river. The majority of the lower portion is covered with natural vegetation. A retaining wall has been constructed along the river in the areas where there is no vegetation.	Sediments.	Erosion is a continuing problem. A Corrective action team will be organized to prepare an erosion control plan for this location.
Figure A-7, Sheet 3	I	9	Storm water runoff from the area around Buildings 3769 and 3770 and the adjacent roadway would flow eastward through a natural ravine that slopes gently toward the river. Railroad ties are placed end-to-end adjacent to the roadway to reduce the runoff and erosion from this area. The ravine is covered with rock and dirt as well as natural vegetation.	Sediments.	Periodic visual inspections will be performed to assess runoff.

SURVEY SUMMARY FOR 300 AREA

Performed by: I. J. Lazarski, Outfalls A-D
M. R. Gunter, Outfalls E-J
 Report Period: July 1, 1994 - June 30, 1995

Inspection Date: May 11, 1995

WHC-SD-EN-EE-015, Rev. 0

Map Reference No.	General Discharge Location to River	Potential Point Source Conveyance	Description/Current Status	Potential Storm Water Pollutant Sources	Best Management Practice(s)
Figure A-7, Sheet 3	J	10	Will be eliminated from Rev. 1 of the SWPPP (10/95). The discharge point is a lined lagoon that will receive filter backwash from the water treatment plant. The outfall is a 20-centimeter- (8-inch)-diameter pipe that runs from the lagoon to the river bank. The bank is moderately sloped and is covered with natural vegetation. The pipe is capped at the lagoon.	Monitored.	The outfall will be removed to prevent any discharge from the lagoon into the river.

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APPENDIX 3

STORM WATER OUTFALL MAPS

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APPENDIX 4

HANFORD SITE LIST OF SIGNIFICANT SPILLS AND LEAKS

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HANFORD SITE LIST OF SIGNIFICANT SPILLS AND LEAKS

100-B and 100-C AREAS

Report Period: July 1, 1994 to June 30, 1995*

* - Recorded below are all significant spills and significant leaks of toxic or hazardous pollutants that have occurred during the reporting period.

Definitions: Significant spills include, but are not limited to, releases of oil or hazardous substances in excess of reportable quantities.

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100-D AND DR AREAS

Definitions: Significant spills include, but are not limited to, releases of oil or hazardous substances in excess of reportable quantities.

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100-F AREA

Definitions: Significant spills include, but are not limited to, releases of oil or hazardous substances in excess of reportable quantities.

[illegible]

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HANFORD SITE LIST OF SIGNIFICANT SPILLS AND LEAKS

100 H AREA

Report Period: July 1, 1994 to June 30, 1995*

* - Recorded below are all significant spills and significant leaks of toxic or hazardous pollutants that have occurred during the reporting period.

Definitions: Significant spills include, but are not limited to, releases of oil or hazardous substances in excess of reportable quantities.

Date (month/day/yr)	Spill	Leak	Location (as indicated on site map)	Description				Response Procedure		Preventive Measures Taken
				Type of Material	Quantity	Source, If Known	Reason	Amount of Material Recovered	Material No Longer Exposed to Storm Water (T/F)	
None Reported										

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HANFORD SITE LIST OF SIGNIFICANT SPILLS AND LEAKS

100 KE AND KW AREAS

Report Period: July 1, 1994 to June 30, 1995*

* - Recorded below are all significant spills and significant leaks of toxic or hazardous pollutants that have occurred during the reporting period.

Definitions: Significant spills include, but are not limited to, releases of oil or hazardous substances in excess of reportable quantities.

Date (month/day/yr)	Spill	Leak	Location (as indicated on site map)	Description				Response Procedure		Preventive Measures Taken
				Type of Material	Quantity	Source, If Known	Reason	Amount of Material Recovered	Material No Longer Exposed to Storm Water (T/F)	
None Reported										

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100-N AREA

Definitions: Significant spills include, but are not limited to, releases of oil or hazardous substances in excess of reportable quantities.

None Reported

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HANFORD SITE LIST OF SIGNIFICANT SPILLS AND LEAKS

300 AREA

Report Period: July 1, 1994 to June 30, 1995*

* - Recorded below are all significant spills and significant leaks of toxic or hazardous pollutants that have occurred during the reporting period.

Definitions: Significant spills include, but are not limited to, releases of oil or hazardous substances in excess of reportable quantities.

Date (month/day/yr)	Spill	Leak	Location (as indicated on site map)	Description				Response Procedure		Preventive Measures Taken
				Type of Material	Quantity	Source, If Known	Reason	Amount of Material Recovered	Material No Longer Exposed to Storm Water (T/F)	
None Reported										

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APPENDIX 5

SIGNED CERTIFICATION PAGES

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HANFORD RESERVATION
COMPREHENSIVE SITE COMPLIANCE EVALUATION
JULY 1, 1994 TO JUNE 30, 1995

CERTIFICATION

I certify under penalty of law that this document and all enclosures were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated 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.

James E. Rasmussen, Director
Environmental Assurance, Permits,
and Policy Division
U.S. Department of Energy,
Richland Operations Office

9/21/95
Date

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**HANFORD RESERVATION
COMPREHENSIVE SITE COMPLIANCE EVALUATION
JULY 1, 1994 TO JUNE 30, 1995**

CERTIFICATION

I certify 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 gathered and evaluated 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.

William T. Dixon, Director
Environmental Services
Westinghouse Hanford Company

Date

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ICF Kaiser Hanford Company
P.O. Box 888
Richland, WA 99352

ETS-W-95-2353

August 31, 1995

Mr. W. T. Dixon, Manager
Environmental Services
Westinghouse Hanford Company
P. O. Box 1970
Richland, Washington 99352

Dear Mr. Dixon:

**CERTIFICATION FOR THE HANFORD SITE STORM WATER COMPREHENSIVE EVALUATION
REPORT FOR THE PERIOD JUNE 1, 1994 TO JULY 30, 1995**

I have reviewed the stormwater outfalls listed as ICF Kaiser Hanford Company's responsibility in the subject document. The information provided by ICF KH was prepared under my direction by qualified personnel and 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.

Please contact me if you have any questions or concerns.

Sincerely,

B. J. Dixon, Manager
Environmental Programs & Integration

BJD:tst

cc: R. E. Tiller

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376-7632

September 6, 1995

Mr. James E. Rasmussen, Director
Environmental Assurance, Permits, and Policy Division
U.S. Department of Energy
Richland Operations Office
P.O. Box 550
Richland, Washington 99352

Dear Mr. Rasmussen:

PACIFIC NORTHWEST LABORATORY (PNL) CONTRIBUTION TO THE ANNUAL HANFORD SITE
STORM WATER COMPREHENSIVE SITE COMPLIANCE EVALUATION

Ref: Your letter to GR Hoenes, Manager, Laboratory Safety Department, PNL, and JJ Sutey, Director, Laboratory Management Division, DOE, dated June 2, 1994, "Requirement of Certification for Pacific Northwest Laboratory Storm Water Outfalls Listed in the Hanford Site Storm Water Pollution Prevention Plan."

As identified in the Hanford Site Storm Water Pollution Prevention Plan (SWPPP)[WHC-SD-EN-EV-021, Rev. 0], PNL has performed an annual review of storm water outfalls and significant spills and leaks associated with PNL facilities on the Hanford Site for the period July 1, 1994 to June 30, 1995. The Hanford Site SWPPP Annual Comprehensive Site Compliance Evaluation (CSCE) update has been compiled by Westinghouse Hanford Company (WHC) and incorporates all PNL modifications that were noted during these reviews. As John D. Wagoner's delegate, it is expected that you will certify the annual CSCE by October 1, 1995.

The survey summary for the 100-F Area and 300 Area is enclosed, as well as the associated List of Significant Spill and Leaks, which contains the PNL contributions to the annual CSCE. Specifically, PNL has a total of five storm water outfalls: Outfall J-15 (100-F Area) and Outfalls A-1, B-2, C-3, and D-4 (300 Area). WHC and Bechtel Hanford staff will be submitting certification statements for their respective portions of the CSCE to the U.S. Department of Energy Richland Operations Office (RL).

A certification statement for PNL outfalls listed in the Hanford Site CSCE report is not required because PNL is a research and development organization and is exempt from storm water requirements for industry/construction (see referenced letter). However, the enclosed documentation is being submitted to

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support the information contained within the Hanford Site SWPPP and CSCE for use in making the annual certification.

The PNL portions of the Annual CSCE were prepared by staff under my direction and in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on inquiry of the staff directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

If you have any questions regarding this submittal, please contact T.J. Lazarski on 376-9854.

Very truly yours,

Elizabeth A. Flores, Manager
Environmental Compliance Department

EAF:TJL:vjs

Attachments

cc: MA Barnard, RL (w/att)
BJ Dixon, ICF-KH (w/att)
RN Krekel, RL (w/att)
KS Tollefson, WHC (w/o att)
JP Zoric, BHI (w/o att)

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Bechtel Hanford, Inc.

019966

450 Hills Street, Richland, WA 99352
Mailing address: P.O. Box 969, Richland, WA 99352
Telephones: (509) 375-4640 Fax: (509) 375-4644

Job No. 22192
Written Response Required: NO
Client CCN: N/A
OU: N/A
TSD: N/A
ERA: N/A
Subject Code: 6470

AUG 31 1995

U.S. Department of Energy
Richland Operations Office
J. E. Rasmussen, Director
Environmental Assurance, Permits, and Policy Division
P.O. Box 550, MSIN A5-15
Richland, Washington 99352

Dear Mr. Rasmussen:

Subject: Contract No. DE-AC06-93RL12367
CERTIFICATION OF ANNUAL HANFORD SITE STORMWATER REPORT

Based on my inquiry of the individuals directly responsible for gathering the information, I certify that the information submitted by Bechtel Hanford, Inc., for the subject report is, to the best of my knowledge and belief, true, accurate, and complete.

Sincerely,

S. D. Liedle
Vice President Operations

SDL:sji

cc: R. A. Holten (RL) H4-83
J. H. Zeisloft (RL) H4-83

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019966

J. E. Rasmussen
Page 2

AUG 31 1995

bcc:

J. H. Dunkirk H4-86

S. D. Liedle H4-81

L. A. Mihalik H4-79

J. P. Zoric X0-21

CONCURRENCES

DATE	8/30/95	8/30/95
INITIAL	LAM/AM	JHD

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Source: Portion of U.S. DOE H-1-52166
100 Areas Topographic Maps

923 E317/4463003-01-53

Figure A-1. Hanford Stormwater Pollution Prevention Plan - 100 B & C Area Outfalls and Sources Map. (Sheet 1 of 3)

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Source: Portion of U.S. DOE H-1-52166
- 100 Areas Topographic Maps

923 E917/44631/03-01-53

Figure A-2. Hanford Stormwater Pollution Prevention Plan - 100 K Area Outfalls and Sources Map. (Sheet 1 of 3)

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923-E017/44801/3-15-93

Figure A-2. Hanford Stormwater Pollution Prevention Plan-100 K West Outfalls and Sources. (Sheet 3 of 3)

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523 E01714463203-01-43

Figure A-3. Hanford Stormwater Pollution Prevention Plan - 100 N Area Outfalls and Sources Map. (Sheet 1 of 4)

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Figure A-3. Hanford Stormwater Pollution Prevention Plan-100 N East Outfalls and Sources. (Sheet 2 of 4)

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923-5017/4513003-12-93

Figure A-3: Hanford Stormwater Pollution Prevention Plan-100 N East Outfalls and Sources. (Sheet 3 of 4)

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WMC-SD-EN-EE-015, Rev. 0

923-2017/4513103-12-53

Figure A-3. Harford Stormwater Pollution Prevention Plan-100 N East Outfalls and Sources. (Sheet 4 of 4)

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921 E017/4463303-01-93

Figure A-4. Hanford Stormwater Pollution Prevention Plan - 100 D & DR Area Outfalls and Sources Map. (Sheet 1 of 3)

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921-E017/4513063-12-93

Figure A-4. Hanford Stormwater Pollution Prevention Plan-100 D and 100 DR Outfalls and Sources. (Sheet 2 of 3)

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522-E017/4513/03-12-93

Figure A-4. Hanford Stormwater Pollution Prevention Plan-100 D and 100 DR Outfalls and Sources. (Sheet 3 of 3)

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Source: Portion of U.S. DOE H-1-52166
100 Areas Topographic Maps

923 E017/4463/03-01-93

Figure A-3. Hanford Stormwater Pollution
Prevention Plan - 100 H Area Outfalls and
Sources Map. (Sheet 1 of 4)

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Figure A-5. Hanford Stormwater Pollution Prevention Plan-100 H Outfalls and Sources. (Sheet 2 of 4)

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Figure A-5. Hanford Stormwater Pollution Prevention Plan-100 H Outfalls and Sources. (Sheet 3 of 4)

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WHC-SD-EN-EE-015, Rev. 0

Figure A-6. Hanford Stormwater Pollution Prevention Plan - 100 F Area Outfalls and Sources Map. (Sheet 1 of 6)

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273-5017/449053-15-33

Figure A-6. Hanford Stormwater Pollution Prevention Plan-100 F Outfalls and Sources (Sheet 2 of 6)

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923-2017/44807/3-15-93

Figure A-6. Hanford Stormwater Pollution Prevention Plan-100 F Outfalls and Sources. (Sheet 4 of 6)

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923-E017/4514303-12-93

Figure A-6. Hanford Stormwater Pollution Prevention Plan-100 F Outfalls and Sources. (Sheet 6 of 6)

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WHC-SD-EN-EE-015, Rev. 0

Source: Portion of U.S. DOE H-1-52166
100 Areas Topographic Maps

923 E017/44708/03-5-53

Figure A-7. Hanford Stormwater Pollution Prevention Plan - 300 Area Outfalls and Sources Map. (Sheet 1 of 3)

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Figure A-7. Hanford Stormwater Pollution Prevention Plan - 300 Area Outfalls and Sources Map. (Sheet 2 of 3)

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923-0177/443103-15-93

Figure A-7. Hanford Stormwater Pollution Prevention Plan - 300 Area Outfalls and Sources Map. (Sheet 3 of 3)

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