

START

0029694 ¹⁴

ENGINEERING CHANGE NOTICE

Page 1 of 2

1. ECN 197977

Proj.
ECN

2. ECN Category (mark one)	Supplemental <input type="checkbox"/>	Change ECN <input type="checkbox"/>	Supersedure <input type="checkbox"/>
Cancel/Void <input type="checkbox"/>	Direct Revision <input checked="" type="checkbox"/>	Temporary <input type="checkbox"/>	Discovery <input type="checkbox"/>

3. Originator's Name, Organization, MSIN, and Telephone No. B.E. Innis 200/300 Area Environmental Engineering H6-03, 2-3670	4. Date March 3, 1993 July 7,
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5. Project Title/No./Work Order No. Data Validation Summary Report 300-FF-5 Round 4 Groundwater (All Fractions)	6. Bldg./Sys./Fac. No. NA	7. Impact Level 4
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8. Document Number Affected (include rev. and sheet no.) WHC-SD-EN-TI-107, Rev. 0	9. Related ECN No(s).	10. Related PO No.
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11a. Modification Work <input type="checkbox"/> Yes (fill out Blk. 11b) <input checked="" type="checkbox"/> No (NA Blks. 11b, 11c, 11d)	11b. Work Package Doc. No. NA	11c. Complete Installation Work NA _____ Cog. Engineer Signature & Date	11d. Complete Restoration (Temp. ECN only) NA _____ Cog. Engineer Signature & Date
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12. Description of Change
Text changes on page 2-10, and data qualifier changes in table 2.1 on pages 2-12 through 2-19.



13a. Justification (mark one)	Criteria Change <input type="checkbox"/>	Environmental <input type="checkbox"/>	Facilitate Const. <input type="checkbox"/>
Design Error/Omission <input type="checkbox"/>	Design Improvement <input type="checkbox"/>	As-Found <input checked="" type="checkbox"/>	Const. Error/Omission <input type="checkbox"/>

13b. Justification Details
Additional review by the Senior Validator with Hart Crowser/Ebasco indicated incorrectly qualified data in the original release.

14. Distribution (include name, MSIN, and no. of copies) L. C. Hulstrom (H6-03, 15 copies), EDMC (H6-08, 2 copies), Central Files (L8-04, 1 copy) (2copies) ERC (H6-06, 1:copy)	RELEASE STAMP OFFICIAL RELEASE BY WHC 11 DATE JUL 21 1993 <i>Station # 12</i>
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ENGINEERING CHANGE NOTICE

Page 2 of 2

1. ECN (use no. from pg. 1)

197977

15. Design Verification Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	16. Cost Impact				17. Schedule Impact (days) Improvement <input type="checkbox"/> Delay <input type="checkbox"/>
	ENGINEERING		CONSTRUCTION		
	Additional	<input type="checkbox"/> \$	Additional	<input type="checkbox"/> \$	
	Savings <input type="checkbox"/> \$	Savings <input type="checkbox"/> \$			

18. Change Impact Review: Indicate the related documents (other than the engineering documents identified on Side 1) that will be affected by the change described in Block 12. Enter the affected document number in Block 19.

SDD/DD	<input type="checkbox"/>	Seismic/Stress Analysis	<input type="checkbox"/>	Tank Calibration Manual	<input type="checkbox"/>
Functional Design Criteria	<input type="checkbox"/>	Stress/Design Report	<input type="checkbox"/>	Health Physics Procedure	<input type="checkbox"/>
Operating Specification	<input type="checkbox"/>	Interface Control Drawing	<input type="checkbox"/>	Spares Multiple Unit Listing	<input type="checkbox"/>
Criticality Specification	<input type="checkbox"/>	Calibration Procedure	<input type="checkbox"/>	Test Procedures/Specification	<input type="checkbox"/>
Conceptual Design Report	<input type="checkbox"/>	Installation Procedure	<input type="checkbox"/>	Component Index	<input type="checkbox"/>
Equipment Spec.	<input type="checkbox"/>	Maintenance Procedure	<input type="checkbox"/>	ASME Coded Item	<input type="checkbox"/>
Const. Spec.	<input type="checkbox"/>	Engineering Procedure	<input type="checkbox"/>	Human Factor Consideration	<input type="checkbox"/>
Procurement Spec.	<input type="checkbox"/>	Operating Instruction	<input type="checkbox"/>	Computer Software	<input type="checkbox"/>
Vendor Information	<input type="checkbox"/>	Operating Procedure	<input type="checkbox"/>	Electric Circuit Schedule	<input type="checkbox"/>
OM Manual	<input type="checkbox"/>	Operational Safety Requirement	<input type="checkbox"/>	ICRS Procedure	<input type="checkbox"/>
FSAR/SAR	<input type="checkbox"/>	IEFD Drawing	<input type="checkbox"/>	Process Control Manual/Plan	<input type="checkbox"/>
Safety Equipment List	<input type="checkbox"/>	Cell Arrangement Drawing	<input type="checkbox"/>	Process Flow Chart	<input type="checkbox"/>
Radiation Work Permit	<input type="checkbox"/>	Essential Material Specification	<input type="checkbox"/>	Purchase Requisition	<input type="checkbox"/>
Environmental Impact Statement	<input type="checkbox"/>	Fac. Proc. Samp. Schedule	<input type="checkbox"/>		<input type="checkbox"/>
Environmental Report	<input checked="" type="checkbox"/>	Inspection Plan	<input type="checkbox"/>		<input type="checkbox"/>
Environmental Permit	<input type="checkbox"/>	Inventory Adjustment Request	<input type="checkbox"/>		<input type="checkbox"/>

19. Other Affected Documents: (NOTE: Documents listed below will not be revised by this ECN.) Signatures below indicate that the signing organization has been notified of other affected documents listed below.

Document Number/Revision	Document Number/Revision	Document Number Revision
NA		

20. Approvals

Signature	Date	Signature	Date
OPERATIONS AND ENGINEERING		ARCHITECT-ENGINEER	
Cog./Project Engineer <i>L.C. Hulstrom</i>	7/8/93	PE	_____
Cog./Project Engr. Mgr. <i>R.A. Carlson</i>	7/8/93	QA	_____
QA	_____	Safety	_____
Safety	_____	Design	_____
Security	_____	Other	_____
Proj. Prog./Dept. Mgr.	_____		_____
Def. React. Div.	_____		_____
Chem. Proc. Div.	_____		_____
Def. Wst. Mgmt. Div.	_____	DEPARTMENT OF ENERGY	_____
Adv. React. Dev. Div.	_____		_____
Proj. Dept.	_____		_____
Environ. Div.	_____	ADDITIONAL	_____
IRM Dept.	_____		_____
Facility Rep. (Ops.)	_____		_____
Other	_____		_____

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SUPPORTING DOCUMENT

1. Total Pages 51

2. Title

Data Validation Summary Report--Groundwater 300-FF-5 Operable Unit

3. Number

WHC-SD-EN-TI-107

4. Rev No.

0-A

5. Key Words

APPROVED FOR
PUBLIC RELEASE

7/19/93 W. Solis

6. Author

Name: L. C. Hulstrom

R. C. Carlson for L. C. Hulstrom
Signature

Organization/Charge Code 81320/P25AE

7. Abstract

Hulstrom, L.C., *Data Validation Summary Report--Groundwater 300-FF-5 Operable Unit*, WHC-SD-EN-TI-107, Rev. 0, Westinghouse Hanford Company, Richland, Washington.

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10. RELEASE STAMP

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9. Impact Level 4

9312975.1625

Date Received
7/19/93

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Reference:
WHC-CM-3-4

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Title Data Validation Summary Report--Groundwater 300-FF-5 Operable Unit	Unclassified Category UC-630	Impact Level 4
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New or novel (patentable) subject matter? <input checked="" type="checkbox"/> No <input type="checkbox"/> If "Yes", has disclosure been submitted by WHC or other company? <input type="checkbox"/> No <input type="checkbox"/> Yes Disclosure No(s).	Information received from others in confidence, such as proprietary data, trade secrets, and/or inventions? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Identify)
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Date(s) of Conference or Meeting	City/State
Will proceedings be published? Will material be handed out?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No

Title of Journal

CHECKLIST FOR SIGNATORIES

Review Required per WHC-CM-3-4	Yes	No	Reviewer - Signature	Indicates Approval
			Name (printed)	Signature Date
Classification/Unclassified Controlled Nuclear Information	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Patent - General Counsel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	S. W. Berglin	per OGC memo 2/4/93 mKnight 7-9-93
Legal - General Counsel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	S. W. Berglin	"
Applied Technology/Export Controlled Information or International Program	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
WHC Program/Project	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Communications	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
RL Program/Project	<input checked="" type="checkbox"/>	<input type="checkbox"/>	R. G. McLeod	Review not required per telcom SC Hulstrom 7/15/93
Publication Services	<input checked="" type="checkbox"/>	<input type="checkbox"/>	mKnight	mKnight 7-16-93
Other Program/Project	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

Information conforms to all applicable requirements. The above information is certified to be correct.

References Available to Intended Audience	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Transmit to DOE-HQ/Office of Scientific and Technical Information	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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L. C. Hulstrom	LC Hulstrom 7/15/93
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R. A. Carlson	RACarlson 7/15/93

INFORMATION RELEASE ADMINISTRATION APPROVAL STAMP	
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Date Cancelled	Date Disapproved

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RECORD OF REVISION

(1) Document Number

WHC-SD-EN-TI-107

Page 1

(2) Title

Data Validation Summary Report - Groundwater 300-FF-5 Operable Unit

CHANGE CONTROL RECORD

(3) Revision	(4) Description of Change - Replace, Add, and Delete Pages	Authorized for Release		
		(5) Cog. Engr.	(6) Cog. Mgr.	Date
0	Initial release EDT 142912	L.C. Hulstrom	R.A. Carlson	7/7/93
0-A RS	Replace text on page 2-12 and tables on pages 2-12 through 2-19 with revised text and tables (designated Rev. 0-A). Per ECN 197977.	<i>LC Hulstrom</i> 7/7/93	<i>Subscribed</i> FOR R.A. CARLSON	
		L. C. Hulstrom	R. A. Carlson	

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reviewing other factors relating to analytical sensitivity (e.g., relative response factors, detection limits, linearity, analytical recovery).

All compound identifications were confirmed by the validator. There were no tentatively identified compounds (TICs) detected in these samples.

2.8 COMPOUND QUANTIFICATION AND REPORTED DETECTION LIMITS

Compound quantifications and reported detection limits were recalculated for the samples specified by Westinghouse Hanford for each case to verify that they were accurate and consistent with CLP requirements. The calculations were consistent with the reported results. Therefore, no changes or qualifications were made based on the calculations.

Below the CRQL, instrument precision becomes more variable as the instrument detection limit (IDL) is approached. Therefore, the concentration of compounds detected below the CRQL were qualified as estimates (J).

2.9 SYSTEM PERFORMANCE ACCEPTABLE

A thorough review of ongoing data acquisition and instrument performance criteria was made to assess overall GC/MS instrument performance. No changes in instrument performance were noted that would result in the degradation of data quality. No indications of unacceptable instrument performance (i.e., shifts in baseline stability, retention time shifts, extraneous peaks, sensitivity) were found during the quality assurance review.

2.10 CHANGES MADE SINCE PRELIMINARY REPORT

Data qualifier assignments and documentation were reviewed by a senior validator and a technical reviewer. The following changes were made after the submittal of the Preliminary QA Reports:

- ▶ In the preliminary QA reports methylene chloride and acetone values for several samples and equipment blanks were qualified as undetected due to laboratory method blank contamination. Due to additional quality control deficiencies these should have been qualified as estimates as well (UJ). The following samples were affected:

- B07P69	- B07P81
- B07P71	- B07P93
- B07P77	- B07PD3

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Table 2-1. 300-FF-5 Operable Unit Remedial Investigation
 Round 4 Groundwater Volatile Organic Compounds
 Analysis and Qualifier Summary

Sheet 1 of 8

Sample No.	*B07P68	*B07P68RE	*B07P69 Trip Blank	*B07P70	*B07P70RE	B07P71 Trip Blank	*B07P72	B07P72RE
300-FF-5 Compounds of Concern:								
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Methylene Chloride	10 U	2 U	10 UJ	10 U	2 U	10 UJ	10 U	2 U
1,2-Dichloroethene	10 U	2 U	10 UJ	130	150	10 UJ	10 U	2 U
Trichloroethene	3 J	3	10 UJ	10	11	10 UJ	10 U	2 U
Tetrachloroethene	10 U	2 U	10 UJ	10 U	2 U	10 UJ	10 U	2 U
Vinyl chloride	10 U	2 U	10 UJ	10 U	2 U	10 UJ	10 U	2 U
Additional Compounds Originally Detected in Sample:								
Acetone	10 U	NR	NR	NR	NR	NR	NR	NR
Chloroform	5 J	5	NR	NR	NR	NR	NR	NR
Benzene	NR	NR	NR	NR	NR	NR	NR	NR
Toluene	NR	NR	NR	NR	NR	NR	NR	NR

NR - not reported as detected

* - fully validated sample

Table 2-1. 300-FF-5 Operable Unit Remedial Investigation
 Round 4 Groundwater Volatile Organic Compounds
 Analysis and Qualifier Summary

Sheet 2 of 8

Sample No.	B07P73 Trip Blank	*B07P74	B07P75 Trip Blank	B07P76	B07P77 Trip Blank	B07P80	*B07P81 Trip Blank
300-FF-5 Compounds of Concern:							
	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$
Methylene Chloride	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ
1,2-Dichloroethene	10 U	6 J	10 U	10 U	10 UJ	10 U	10 UJ
Trichloroethene	10 U	10 U	10 U	1 J	10 UJ	3 J	10 UJ
Tetrachloroethene	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ
Vinyl chloride	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ
Additional Compounds Originally Detected in Sample:							
Acetone	NR	10 U	NR	10 U	10 UJ	10 U	NR
Chloroform	NR	NR	NR	4 J	NR	5 J	NR
Benzene	NR	NR	NR	NR	NR	NR	NR
Toluene	NR	4 J	NR	NR	NR	NR	NR

NR - not reported as detected

* - fully validated sample

Table 2-1. 300-FF-5 Operable Unit Remedial Investigation
 Round 4 Groundwater Volatile Organic Compounds
 Analysis and Qualifier Summary

Sheet 3 of 8

Sample No.	*B07P92	B07P93 Trip Blank	B07PB2	B07PB3 Trip Blank	B07PC6	B07PC7 Trip Blank	*B07PD2 Field Dup #1
300-FF-5 Compounds of Concern:							
	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$
Methylene Chloride	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethene	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Trichloroethene	3 J	10 UJ	2 J	10 U	10 U	10 U	3 J
Tetrachloroethene	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Additional Compounds Originally Detected in Sample:							
Acetone	NR	NR	NR	NR	NR	NR	10 U
Chloroform	6 J	NR	3 J	NR	NR	NR	5 J
Benzene	NR	NR	NR	NR	NR	NR	NR
Toluene	NR	NR	NR	NR	NR	NR	NR

NR - not reported as detected

* - fully validated sample

Table 2-1. 300-FF-5 Operable Unit Remedial Investigation
 Round 4 Groundwater Volatile Organic Compounds
 Analysis and Qualifier Summary

Sheet 4 of 8

Sample No.	B07PD3 Field Dup #1	*B07PD4 Field Dup #2	B07PD5 Field Dup #2	B07PF1 Method Blank	B07PF0 Method Blank	B07PD9 Method Blank
300-FF-5 Compounds of Concern:						
	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$
Methylene Chloride	10 UJ	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethene	10 UJ	130	10 U	10 U	10 U	10 U
Trichloroethene	10 UJ	11	10 U	10 U	10 U	10 U
Tetrachloroethene	10 UJ	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	10 UJ	10 U	10 U	10 U	10 U	10 U
Additional Compounds Originally Detected in Sample:						
Acetone	12 UJ	13 U	17 U	NR	NR	NR
Chloroform	NR	NR	NR	NR	NR	NR
Benzene	NR	NR	NR	NR	NR	10 U
Toluene	NR	NR	NR	NR	NR	NR

NR - not reported as detected

* - fully validated sample

Table 2-1. 300-FF-5 Operable Unit Remedial Investigation
 Round 4 Groundwater Volatile Organic Compounds
 Analysis and Qualifier Summary

Sheet 5 of 8

Sample No.	B07PD8 Equip. Blank	B07PD7 Equip. Blank	B07PD6 Equip. Blank	B07PC5 Trip Blank	B07PC4	B07PC3 Trip Blank	B07PC2
300-FF-5 Compounds of Concern:	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Methylene Chloride	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U
1,2-Dichloroethene	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U
Trichloroethene	10 U	10 UJ	10 U	10 U	10 U	10 UJ	2 J
Tetrachloroethene	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U
Vinyl chloride	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U
Additional Compounds Originally Detected in Sample:							
Acetone	NR	NR	NR	NR	NR	NR	NR
Chloroform	NR	NR	NR	NR	NR	NR	NR
Benzene	10 U	NR	NR	NR	NR	1 J	2 J
Toluene	NR	NR	NR	NR	NR	NR	NR

NR - not reported as detected

* - fully validated sample

Table 2-1. 300-FF-5 Operable Unit Remedial Investigation
 Round 4 Groundwater Volatile Organic Compounds
 Analysis and Qualifier Summary

Sheet 6 of 8

Sample No.	B07PB7 Trip Blank	*B07PB6	B07PB5 Trip Blank	*B07PB4	B07P99 Trip Blank	*B07P98	B07P95 Trip Blank
300-FF-5 Compounds of Concern:							
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Methylene Chloride	25 U	10 U	10 UJ	10 U	10 U	10 U	10 U
1,2-Dichloroethene	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Trichloroethene	10 U	7 J	10 UJ	4 J	10 U	4 J	10 U
Tetrachloroethene	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Vinyl chloride	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Additional Compounds Originally Detected in Sample:							
Acetone	NR	NR	NR	NR	NR	NR	NR
Chloroform	1 J	8 J	NR	9 J	NR	5 J	NR
Benzene	3 J	4 J	2 J	NR	NR	NR	NR
Toluene	NR	NR	NR	NR	NR	NR	NR

NR - not reported as detected

* - fully validated sample

Table 2-1. 300-FF-5 Operable Unit Remedial Investigation
Round 4 Groundwater Volatile Organic Compounds
Analysis and Qualifier Summary

Sheet 7 of 8

Sample No.	*B07P94	B07P89 Trip Blank	B07P88	B07P87 Trip Blank	B07P86	B07P85 Trip Blank	B07P84
300-FF-5 Compounds of Concern:							
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Methylene Chloride	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
1,2-Dichloroethene	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Trichloroethene	5 J	10 U	10 U	10 U	4 J	10 UJ	5 J
Tetrachloroethene	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Vinyl chloride	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Additional Compounds Originally Detected in Sample:							
Acetone	NR	NR	NR	NR	NR	NR	NR
Chloroform	NR	NR	3 J	NR	2 J	NR	11
Benzene	NR	NR	NR	NR	NR	NR	NR
Toluene	NR	NR	NR	NR	NR	NR	NR

NR - not reported as detected

* - fully validated sample

Table 2-1. 300-FF-5 Operable Unit Remedial Investigation
 Round 4 Groundwater Volatile Organic Compounds
 Analysis and Qualifier Summary

Sheet 8 of 8

Sample No.	B07P83 Trip Blank	*B07P82	B07P79 Trip Blank	B07P78	B07P67 Trip Blank	B07P66
300-FF-5 Compounds of Concern:						
	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$	$\mu\text{g/L}$
Methylene Chloride	10 U	10 U	10 U	10 U	10 UJ	10 U
1,2-Dichloroethene	10 U	10 U	10 U	10 U	10 UJ	10 U
Trichloroethene	10 U	6 J	10 U	2 J	10 UJ	10 U
Tetrachloroethene	10 U	10 U	10 U	10 U	10 UJ	10 U
Vinyl chloride	10 U	10 U	10 U	10 U	10 UJ	10 U
Additional Compounds Originally Detected in Sample:						
Acetone	NR	NR	NR	NR	NR	NR
Chloroform	NR	NR	NR	5 J	NR	6 J
Benzene	NR	NR	NR	NR	NR	10 U
Toluene	NR	NR	NR	NR	NR	NR

NR - not reported as detected

* - fully validated sample

JOBS\297650\GW42-1.WK1