COLSF
Colbert 8.2 V1

ABC LABORATORIES, INC.
EAST 4922 UNION AVENUE
SPOKANE, WA 99219
509-534-0161

REPORT TO: Spokane County Dept. of Utilities
N. 811 Jefferson
Spokane, WA 99210

LAB NO: 32757-89
DATE: 8-10-89
SAMPLE DATE: 7-18-89

ATTN: Bruce Austin

P.O.#:

DESCRIPTION: Perform Volatile Organic Scan on submitted samples from the wells in the Colbert Landfill area. Analyses performed by methods outlined in proposal of December 8th, 1988.

DETECTION LIMITS: 1 part per billion

ND: Not Detected

Neil T.
RECEIVED
AUG 16 1989
SUPERFUND BRANCH

This document contains six pages.

Respectfully Submitted,
ABC LABORATORIES, INC.

W.E. Burkhardt
Manager

USEPA SF
1414327

ABC LABORATORIES, INC.

Spokane County Dept. of Utilities
Lab NO. 32757-89

NAME	Travel blank 7-13-89	Travel blank 7-14-89	Travel blank 7-17-89	(b) (6)		
WELL NO.				1573F-1	0373A-1	1573D-1
Chloroform	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
1-Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2,-richloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

ABC LABORATORIES, INC.

Spokane County Dept. of Utilities
Lab NO. 32757-89

NAME	(b) (6)					
WELL NO.	1573R-2	1073M-1	1073Q-1	1073Q-1 Confirming	1573C-1	1573E-1
Chloroform	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	3	4	ND	ND
1,1-Dichloroethylene	ND	ND	5	6	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	126	128	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
1-Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2,-richloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

ABC LABORATORIES, INC.

Spokane County Dept. of Utilities
Lab NO. 32757-89

NAME	(b) (6)					
WELL NO.	0273P-3	0273P-3 Confirming	1573H-2	1473M-1	1473M-1 Confirming	1173Q-1
Chloroform	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	42	47	ND	49	51	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
1-Pentene	ND	ND	ND	ND	ND	ND
Cyolopentane	ND	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2,-richloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

ABC LABORATORIES, INC.

Spokane County Dept. of Utilities
Lab NO. 32757-89

NAME	(b) (6)					
WELL NO.	2273K-1	2273J-1	0273E-1	0273E-1	1473C-1	1573R-3
Chloroform	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	11	13	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
1-Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2,-richloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

ABC LABORATORIES, INC.

Spokane County Dept. of Utilities
Lab NO. 32757-89

NAME	North Meadows	(b) (6) Springs	(b) (6)
WELL NO.	1073Q-4	1073P-1	1573H-1
Chloroform	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND
Trichloroethylene	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND
Tetrachloroethylene	ND	ND	ND
Methylene Chloride	ND	ND	ND
1-Pentene	ND	ND	ND
Cyclopentene	ND	ND	ND
Trans 2-Hexene	ND	ND	ND
Benzene	ND	ND	ND
Toluene	ND	ND	ND
Ethylene DiBromide	ND	ND	ND
Ethyl Benzene	ND	ND	ND
M-xylene	ND	ND	ND
O-xylene	ND	ND	ND
P-xylene	ND	ND	ND
Cumene	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND
P-cymene	ND	ND	ND
Chlorobenzene	ND	ND	ND
M-dichlorobenzene	ND	ND	ND
O-dichlorobenzene	ND	ND	ND
P-dichlorobenzene	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND
Acetone	ND	ND	ND
Bromodichloromethane	ND	ND	ND
Bromoform	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND
Dibromochloromethane	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND
Cis 1,3-Dichloropropylene	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND
1,1,2,-richloroethane	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND

AREA 05-01-89

JULY 1107
SHALLOW

PERFORMANCE STANDARDS

MAXIMUM ALLOWABLE CONTAMINANT CONCENTRATIONS

SCALE-NONE

SYMBOL	LAYER	DESCRIPTION
	ROADS	EXISTING ROADS
	50 LINE	50' CONTOUR LINES
	RIVER	TRANSMISSION & RIB
	WATER	RIVERS & STREAMS
	GRID	1/16 SECTIONS
	LOT BLK	SHORT PLATS
	SHALLOW	WELLS UNDER 200' DEEP
	DEEP	WELLS OVER 200' DEEP
	OTHER	WELLS OVER OTHER AQUIFER
		APPROXIMATE COLBERT LANDFILL

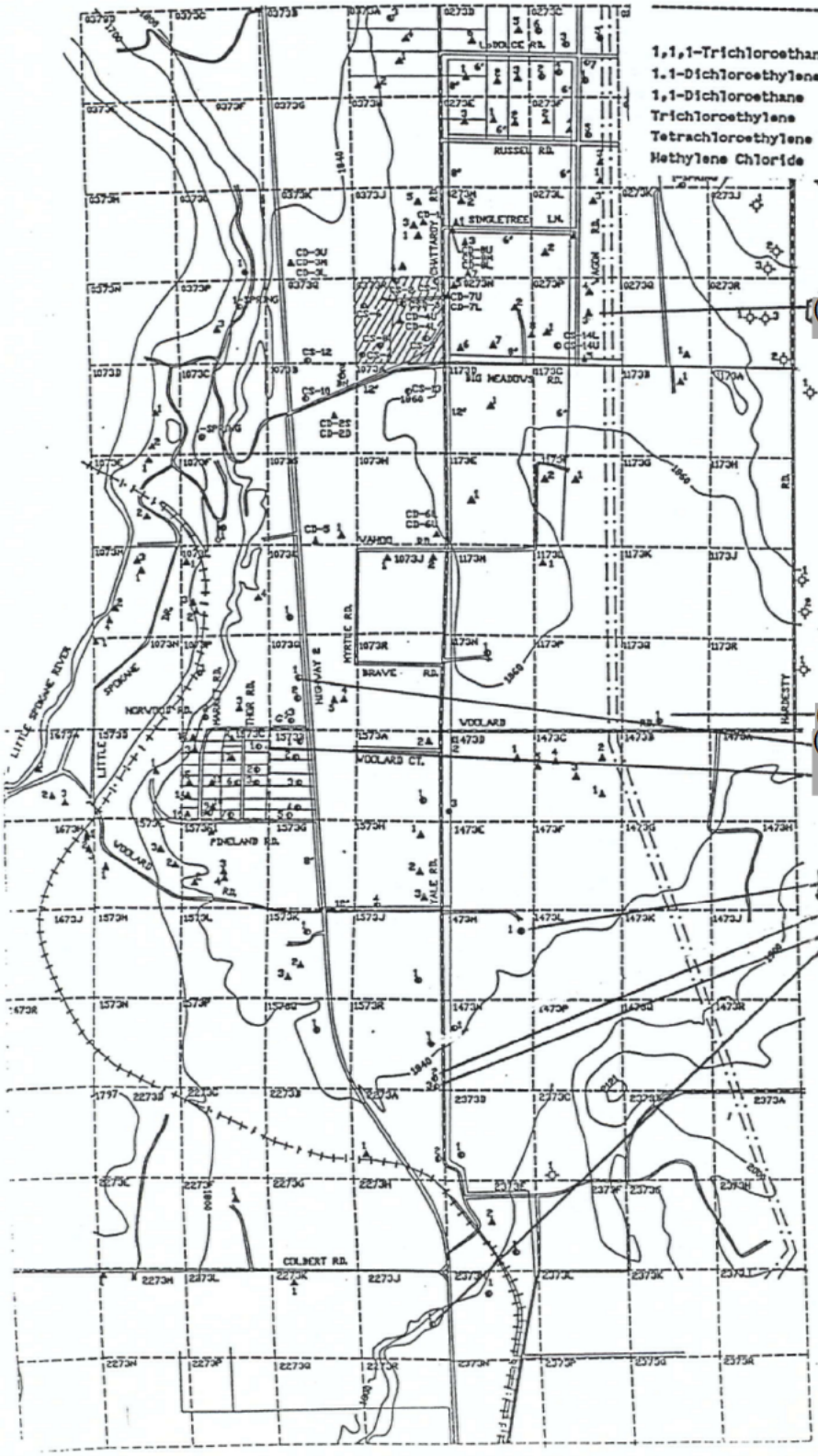
NOTE:

FOR IDENTIFICATION OF WELLS SEE WELL OWNER/MANNER LEGEND

Health Protection Levels*

* Health Protection Levels are not to be exceeded, during operational life of remedial action in effluents from groundwater treatment systems. Permanent reduction of contaminant concentrations below these levels throughout the site will indicate completion of the remedial action.

Contaminant		Maximum Concentration parts per billion (ug/l)	Basis
1,1,1-Trichloroethane	(TCA)	200.0	MCL
1,1-Dichloroethylene	(DCE)	7.0	MCL
1,1-Dichloroethane	(DCA)	4050.0	MAC
Trichloroethylene	(TCE)	5.0	MCL
Tetrachloroethylene	(PCE or TETRA CL)	0.7	10 -5 cancer risk
Methylene Chloride	(MC)	2.5	10 -5 cancer risk



AUG 10,1989 #32757-89	WELL #	111-TCA	11-DCE	11-DCA	TCE	TETRACL	CHLOROFORM
(b) (6)	0273P-3	42	ND	ND	ND	ND	ND
CONFIRM	0273P-3	47	ND	ND	ND	ND	ND
(b) (6)	1173Q-1	ND	ND	ND	ND	ND	ND
(b) (6)	1073Q-1	126	5	3	ND	ND	ND
CONFIRM	1073Q-1	128	6	4	ND	ND	ND
	1573C- 1	ND	ND	ND	ND	ND	ND
(b) (6)	1473M-1	49	ND	ND	ND	ND	ND
CONFIRM	1473M-1	51	ND	ND	ND	ND	ND
	1573R-2	ND	ND	ND	ND	ND	ND
	1573R-3	ND	ND	ND	ND	ND	ND
(b) (6) (COLLINGS)	2273J-1	ND	ND	ND	ND	ND	ND

AREA 05-01-89

July 89
DEEP

PERFORMANCE STANDARDS

MAXIMUM ALLOWABLE CONTAMINANT CONCENTRATIONS

SCALE-NONE

SYMBOL	LAYER	DESCRIPTION
	ROADS	EXISTING ROADS
	50 LINE	50' CONTOUR LINES
	POWER	TRANSMISSION & RLR
	WATER	RIVERS & STREAMS
	GRID	1/16 SECTIONS
	LOT BLK	SHORT PLATS
	SHALLOW	WELLS OVER 100' DEEP
	DEEP	WELLS OVER 100' DEEP
	OTHER	WELLS OVER OTHER AQUIFER
		SCHEMATIC COLBERT LANDFILL

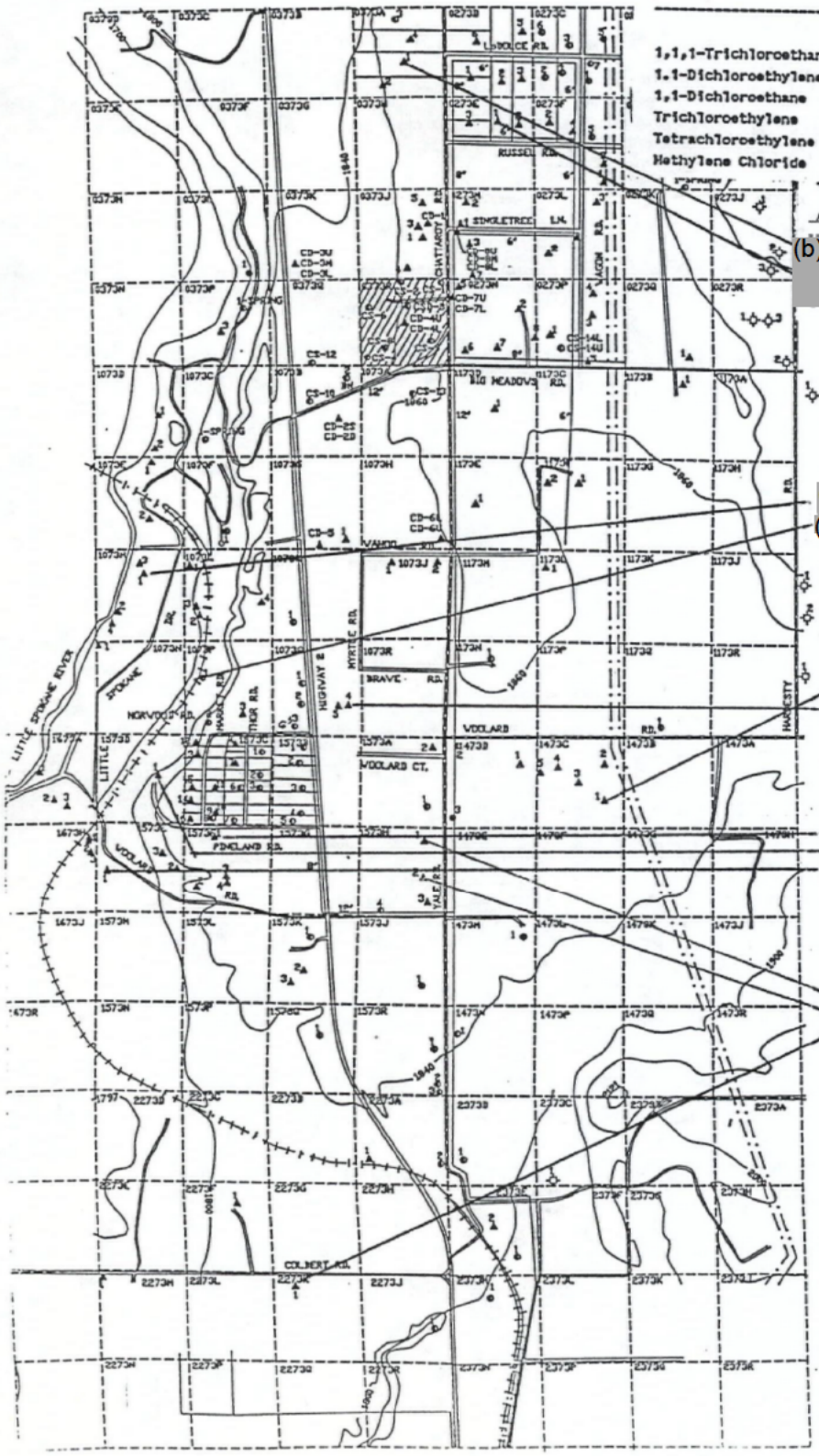
NOTE:

FOR IDENTIFICATION OF WELLS SEE WELL OWNER/NUMBER LEGEND

Health Protection Levels*

* Health Protection Levels are not to be exceeded, during operational life of remedial action in effluents from groundwater treatment systems. Permanent reduction of contaminant concentrations below these levels throughout the site will indicate completion of the remedial action.

Contaminant		Maximum Concentration parts per billion (ug/l)	Basis
1,1,1-Trichloroethane	(TCA)	200.0	HCL
1,1-Dichloroethylene	(DCE)	7.0	HCL
1,1-Dichloroethane	(DCA)	4050.0	HAC
Trichloroethylene	(TCE)	5.0	HCL
Tetrachloroethylene	(PCE or TETRA CL)	0.7	10 -6 cancer risk
Methylene Chloride	(HC)	2.5	10 -6 cancer risk



AUG 10,1989 #32757-89

	WELL #	111-TCA	11-DCE	11-DCA	TCE	TETRACL	CHLOROFORM
(b) (6)	0373A-1	ND	ND	ND	ND	ND	ND
	0273E-1	11	ND	ND	ND	ND	ND
CONFIRM	0273E-1	13	ND	ND	ND	ND	ND
(b) (6)	1073M-1	ND	ND	ND	ND	ND	ND
(b) SPRINGS	1073P-1S	ND	ND	ND	ND	ND	ND
(b) (6)	1473C-1	ND	ND	ND	ND	ND	ND
NORTH MEADOWS (MIDDLE)	1073Q-4	ND	ND	ND	ND	ND	ND
(b) (6)	1573F-1	ND	ND	ND	ND	ND	ND
	1573D-1	ND	ND	ND	ND	ND	ND
	1573E-1	ND	ND	ND	ND	ND	ND
(b)	1573H-1	ND	ND	ND	ND	ND	ND
	1573H-2	ND	ND	ND	ND	ND	ND
(6) (W)	2273K-1	ND	ND	ND	ND	ND	ND