COLSF 8.2 V1

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

RECEIVED
MAR 30 1989
CHEMICAL BRANCH

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

LAB NO: 32207-89
DATE: 3-20-89
SAMPLE DATE: Feb.

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

IS: Internal Standard

ABC LABORATORIES, INC.

Spokane County Dept. of Utilities
Lab NO. 32207-89

Respectfully submitted,
ABC LABORATORIES, INC.

W. E. Burkhardt
Manager

USEPA SF
1414324

ABC LABORATORIES, INC.

Spokane County Dept. of Utilities
Lab NO. 32207-89

NAME	(b) (6)					
WELL NO.	1173L-1	1573K-3	1073J-1	1573R-1	1073G-1	1073D-1
AAA Trifluorotoluene	IS	IS	IS	IS	IS	IS
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	**16**	**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. 32207-89

NAME	(b) (6)					
WELL NO.	1573C-17	0273D-1	0273P-3	1473M-1	1673H-2	1573B-5
AAA Trifluorotoluene	IS	IS	IS	IS	IS	IS
Chloroform	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
1,1-Dichloroethane	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
1,1-Dichloroethylene	**ND**	**ND**	[illegible]	**ND**	**ND**	**ND**
Trichloroethylene	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
1,1,1-Trichloroethane	**ND**	**ND**	**29**	**18**	**ND**	**2**
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-Trichloroethane	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. 32207-89

NAME	(b) (6)					
WELL NO.	1473N-1	1573C-3	0373A-4	1073M-3	1573B-2	1573Q-1
AAA Trifluorotoluene	IS	IS	IS	IS	IS	IS
Chloroform	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
1,1-Dichloroethane	**ND**	**ND**	**ND**	**ND**	**1**	**ND**
1,1-Dichloroethylene	**ND**	**ND**	**ND**	**ND**	**5**	**ND**
Trichloroethylene	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
1,1,1-Trichloroethane	**ND**	**ND**	**ND**	**ND**	**82**	**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-Trichloroethane	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. 32207-89

NAME	(b) (6)				
WELL NO.	1573K-1	1473C-3	1573C-5	2273A-1	02730-3
AAA Trifluorotoluene	IS	IS	IS	IS	IS
Chloroform	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND
1-Pentene	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND
Trans 2 Hexene	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND
Cis 1,3-Dichloropropylene	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND

PERFORMANCE STANDARDS

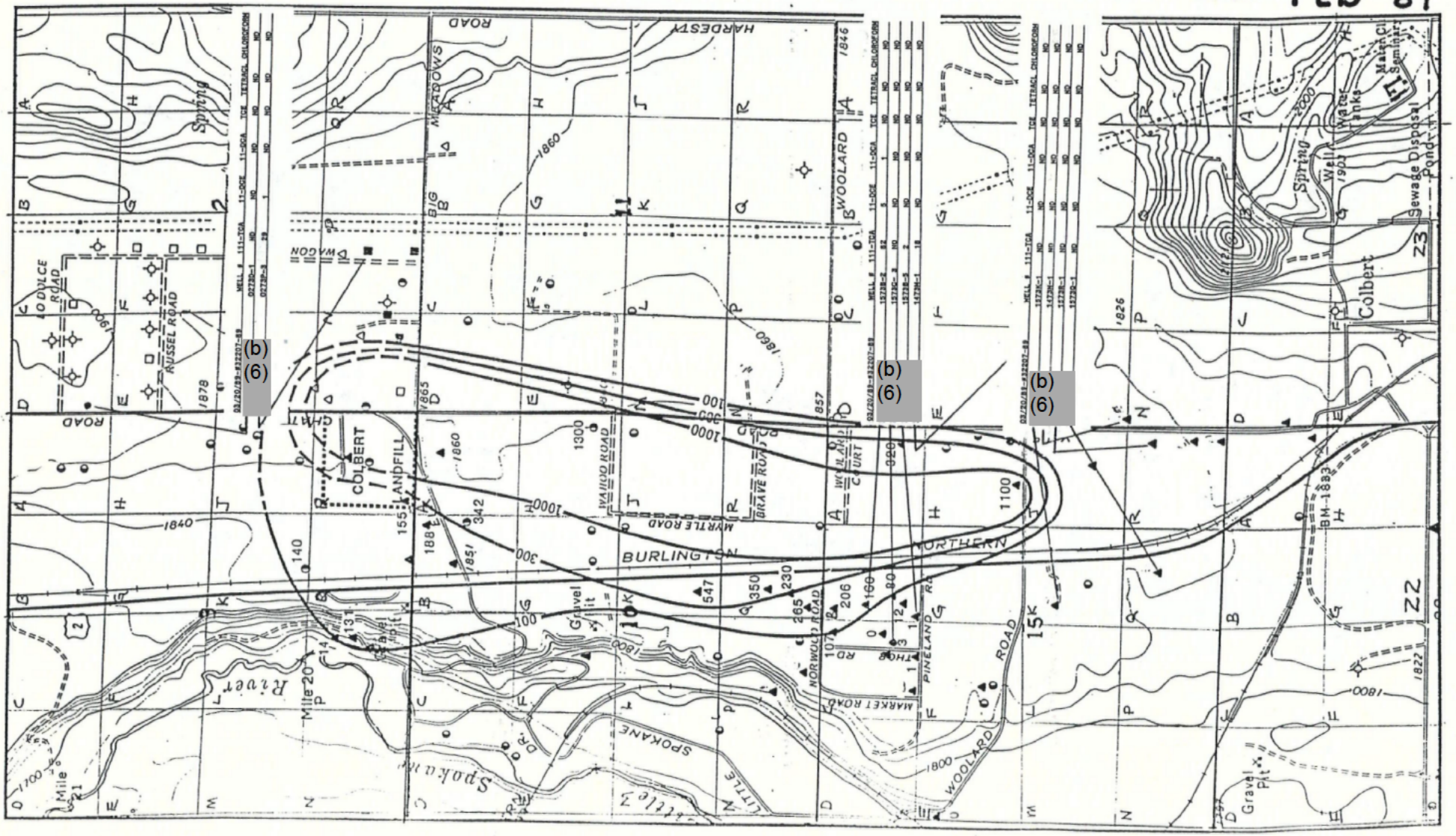
MAXIMUM ALLOWABLE CONTAMINANT CONCENTRATIONS

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	(MC)	2.5	10 -6 cancer risk

SHALLOW AQUIFER MAP ▲ - SHALLOW OR UPPER SANDS AQUIFER = WELL # GRID FEB '89



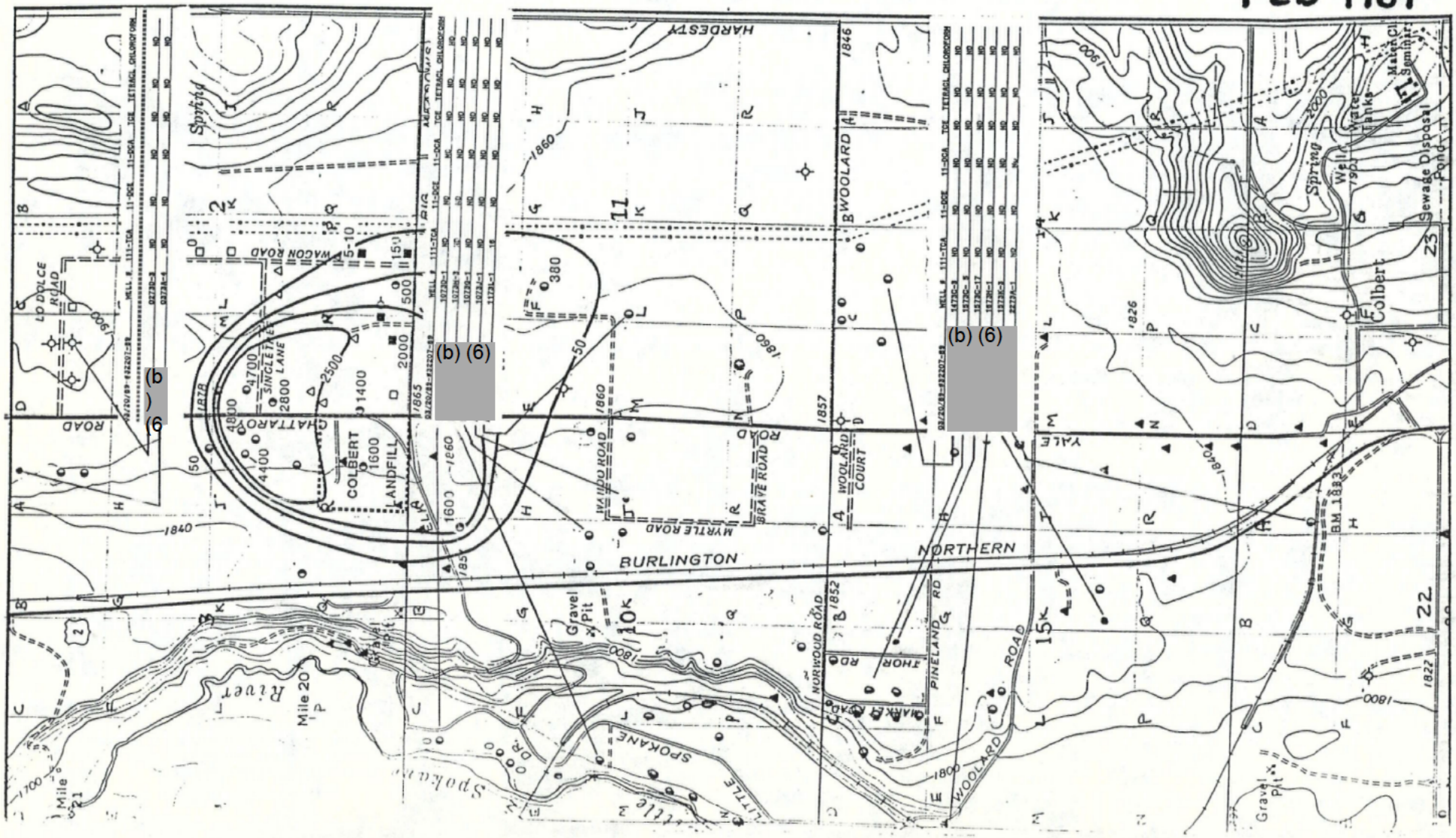
PERFORMANCE STANDARDS

MAXIMUM ALLOWABLE CONTAMINANT CONCENTRATIONS

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/1)	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 -6 cancer risk
Methylene Chloride (MC)	2.5	10 -6 cancer risk

DEEP AQUIFER MAP ◐ - DEEP OR ASSOCIATED WITH DEEP AQUIFER = WELL # GRID

FEB 1989