

APPENDIX E

GUILDERLAND HIGH SCHOOL IRRIGATION WELL RESULTS



STATE OF NEW YORK
DEPARTMENT OF HEALTH

Flanigan Square, 547 River Street, Troy, New York 12180-2216

Antonia C. Novello, M.D., M.P.H., Dr.P.H.
Commissioner

Dennis P. Whalen
Executive Deputy Commissioner

June 19, 2001

Mr. Robert Paquette
Asst. Superintendent of Business
Guilderland School District
6076 State Farm Road
Guilderland, New York 12084

Re: Well Water Sample
Guilderland Center
Transportation Facility
Guilderland (T), Albany County

Dear Mr. Paquette:

On April 4 2001, I collected a sample of water from the well located in the Transportation Building of the Guilderland Center Transportation Facility. It is my understanding that this well supplies water for irrigation of the Guilderland High School athletic fields, is used to wash the school buses and is the water supply for the washrooms in the employee's lounge. I collected the sample as part of the investigation into environmental contamination at the adjacent Northeast Industrial Park (former Schenectady Army Depot, ID #401009). I have enclosed a copy of your laboratory results as well as a laboratory report explanation sheet to help you understand the laboratory report.

As we discussed, the water sample was analyzed for volatile organic compounds, semi-volatile organic compounds, pesticides, PCBs, metals, ketones and petroleum products. The results of the sample analysis indicate that none of the above compounds were detected in the water sample and that metals are found at naturally occurring levels. One inorganic compound, sodium, was detected in your water at a concentration of 38 mg/l. Although I understand this water is not used for drinking, the New York State Department of Health recommends that people on severely restricted sodium diets not drink water with more than 20 mg/l of sodium.

You will note that the compound bis (2-ethylhexyl) phthalate is reported at a concentration of 0.3 mcg/l [BJ]. The qualifier BJ indicates that the 0.3 mcg/l is an estimated quantity and that this compound was also found in the laboratory blank and was likely introduced during sample preparation at the laboratory. Similarly, the compound trans-2-Ethyl-3-methylcyclohexanone is reported at a concentration of 2.0 mcg/l [JN]. The qualifier JN indicates that the 2.0 mcg/l is an

Albany 401009

92/MR/15

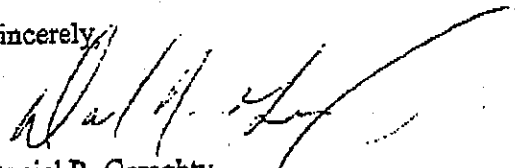
Albany 4010

NE Ind. Park

estimated quantity of a tentatively identified compound and was also likely introduced during sample preparation at the laboratory.

If you have any further questions please call me at (518) 402-7890.

Sincerely,



Daniel R. Geraghty
Program Research Specialist III
Bureau of Environmental Exposure Investigation

Enclosure

cc: Mr. G Litwin/Mr. M. Rivara/FILE
Mr. J. McCullough - DEC, w/att.
Mr. D. Brouwer - USACE, w/att.
Mr. R. Groves - ACHD
Mr. E. Hamilton - DEC Reg 4

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ANALYTICAL REPORT EXPLANATION SHEET FOR WATER SAMPLES

SAMPLE ID: laboratory identification number

SAMPLE RECEIVED: the date the laboratory received your sample

LOCALITY SUBDIVISION: your town, city or village **COUNTY:** your county

LOCATION: describes the general sample area

DESCRIPTION: describes the specific sample location (e.g. specific address, kitchen tap, ---)

SAMPLE TYPE: describes what was sampled (e.g. water)

TIME OF SAMPLING: date and time that your sample was collected

DATE PRINTED: date report was issued

ANALYSIS: the name of the laboratory test performed

PARAMETER-----

The chemicals for which the laboratory analyzed the sample

-----RESULT-----

Numbers and symbols that represent the lowest concentration that the laboratory can reliably measure or the concentration of the chemical that the laboratory found in the sample

The following describe the results:

- "<" - means "less than". The number following a less than sign (<) is the lowest level the laboratory test can reliably measure (detection limit). If there is a "<" before any number, then the chemical was NOT detected in your sample.
- MCG/L - Abbreviation for "micrograms per liter". One MCG/L is approximately equivalent to 1 part chemical in a billion parts of water.
- MG/L - Abbreviation for "milligrams per liter". One MG/L is approximately equivalent to 1 part chemical in a million parts of water.
- "B" indicates that the compound was also detected in the laboratory blank, indicating that the compound may have been introduced into the sample at the laboratory. Blanks are control samples known to be free of contaminants and are tested as a quality control measure.
- "J" indicates that the compound was detected at a concentration below the detection limit and the concentration is estimated.
- "N" indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TIC), where identification is based on a mass spectral library search.
- "PL" indicates that the compound is present in the sample but at a concentration less than the reported level.
- "CR" indicates a confirmed result.

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0002

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

RESULTS OF EXAMINATION

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PAGE 1

SAMPLE ID: 200180037 SAMPLE RECEIVED: 04/04/2001 20HR CHARGE: 35.00
PROGRAM: 110 STATE SUPERFUND ANALYTICAL SERVICES
SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 0155
POLITICAL SUBDIVISION: GUILDERLAND COUNTY: ALBANY
LATITUDE: 42 42 05 83 LONGITUDE: 73 57 50 29 Z DIRECTION:
LOCATION: GUILDERLAND CENTER TRANSPORTATION/MAINTENANCE FACILITY
DESCRIPTION: GCT/MF DEDP: DIV. ENVIRONMENTAL DISEASE PREVENTION - ACCESSION LAB
REPORTING LAB: PEP-1 PRIORITY POLLUTANTS PESTICIDES/PCBS VOLATILES
TEST PATTERN: 120 PRIVATE WATER SUPPLY DRILLED WELL
SAMPLE TYPE: DATE REPORTED: 06/01/2001
TIME OF SAMPLING: 04/04/2001 12:55

INQUIRED 010522 BY D.E.H. (FSN01)
INQUIRED 010522 BY D.E.H. (FSN01)
INQUIRED 010531 BY D.E.H. (FSN01)
INQUIRED 010601 BY D.E.H. (FSN01)
INQUIRED 010612 BY D.E.H. (FSN01)

ANALYSIS:

5022W

VOLATILE ORGANICS IN WATER-EPA 502.2 (DES 310-33)
DATE REPORTED: 04/11/2001
REPORT MAILED OUT

PARAMETER	RESULT
DICHLORODIFLUOROMETHANE (FREON-12)	< 0.5 MCG/L
CHLOROMETHANE	< 0.5 MCG/L
VINYL CHLORIDE	< 0.5 MCG/L
BROMOMETHANE	< 0.5 MCG/L
CHLOROETHANE	< 0.5 MCG/L
TRICHLOROFLUOROMETHANE (FREON-11)	< 0.5 MCG/L
1,1-DICHLOROETHENE	< 0.5 MCG/L
METHYLENE CHLORIDE (DICHLOROMETHANE)	< 0.5 MCG/L
METHYL-tert-BUTYL ETHER (MTBE)	< 0.5 MCG/L
TRANS-1,2-DICHLOROETHENE	< 0.5 MCG/L
1,1-DICHLOROETHANE	< 0.5 MCG/L
2,2-DICHLOROPROPANE	< 0.5 MCG/L
CIS-1,2-DICHLOROETHENE	< 0.5 MCG/L
CHLOROFORM	< 0.5 MCG/L
BROMOCHLOROMETHANE	< 0.5 MCG/L
1,1,1-TRICHLOROETHANE	< 0.5 MCG/L
1,1-DICHLOROPROPENE	< 0.5 MCG/L
CARBON TETRACHLORIDE	< 0.5 MCG/L
1,2-DICHLOROETHANE	< 0.5 MCG/L
BENZENE	< 0.5 MCG/L
TRICHLOROETHENE	< 0.5 MCG/L
1,2-DICHLOROPROPANE	< 0.5 MCG/L
BROMODICHLOROMETHANE	< 0.5 MCG/L

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NYS ELAP ID'S: 10762(INORGANIC,NUCLEAR) 10763(ORGANIC) 10765(BACTERIOLOGY)
COPIES SENT TO: CO(1), RO(1), LPHE(1), FED(1), INFO-PX(1), INFO-LC(1)

THIS REPORT HAS BEEN PRODUCED
BY THE ELIARS SEARCH FACILITY
FROM THE ACTIVE DATABASE

SUBMITTED BY: DGERAGHTY

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WADSWORTH CENTER

RESULTS OF EXAMINATION

REPORT MAILED OUT

0003

PAGE 2

SAMPLE ID: 200180037 SAMPLE RECEIVED 04/04/2001 20HR CHARGE: \$5.00
POLITICAL SUBDIVISION: GUILDERLAND COUNTY: ALBANY
LOCATION: GUILDERLAND CENTER TRANSPORTATION/MAINTENANCE FACILITY
TIME OF SAMPLING: 04/04/2001 12:55 DATE REPORTED: 06/01/2001

PARAMETER	RESULT
DIBROMOMETHANE	< 0.5 MCG/L
CIS-1,3-DICHLOROPROPENE	< 0.5 MCG/L
TOLUENE	< 0.5 MCG/L
TRANS-1,3-DICHLOROPROPENE	< 0.5 MCG/L
1,1,2-TRICHLOROETHANE	< 0.5 MCG/L
1,3-DICHLOROPROPANE	< 0.5 MCG/L
TETRACHLOROETHENE	< 0.5 MCG/L
DIBROMOCHLOROETHANE	< 0.5 MCG/L
1,2-DIBROMOETHANE (EDB)	< 0.5 MCG/L
CHLOROBENZENE	< 0.5 MCG/L
1,1,1,2-TETRACHLOROETHANE	< 0.5 MCG/L
ETHYLBENZENE	< 0.5 MCG/L
m/p-XYLENE	< 0.5 MCG/L
o-XYLENE	< 0.5 MCG/L
STYRENE	< 0.5 MCG/L
ISOPROPYLBENZENE (Cumene)	< 0.5 MCG/L
BROMOFORM	< 0.5 MCG/L
1,1,2,2-TETRACHLOROETHANE	< 0.5 MCG/L
1,2,3-TRICHLOROPROPANE	< 0.5 MCG/L
n-PROPYLBENZENE	< 0.5 MCG/L
BROMOBENZENE	< 0.5 MCG/L
1,3,5-TRIMETHYLBENZENE	< 0.5 MCG/L
o-CHLOROTOLUENE	< 0.5 MCG/L
p-CHLOROTOLUENE	< 0.5 MCG/L
tert-BUTYLBENZENE	< 0.5 MCG/L
1,2,4-TRIMETHYLBENZENE	< 0.5 MCG/L
sec-BUTYLBENZENE	< 0.5 MCG/L
4-ISOPROPYLTOLUENE (p-Cymene)	< 0.5 MCG/L
1,3-DICHLOROBENZENE	< 0.5 MCG/L
1,4-DICHLOROBENZENE	< 0.5 MCG/L
n-BUTYLBENZENE	< 0.5 MCG/L
1,2-DICHLOROBENZENE	< 0.5 MCG/L
1,2-DIBROMO-3-CHLOROPROPANE	< 0.5 MCG/L
1,2,4-TRICHLOROBENZENE	< 0.5 MCG/L
HEXACHLOROBUTADIENE (C-45)	< 0.5 MCG/L
NAPHTHALENE	< 0.5 MCG/L
1,2,3-TRICHLOROBENZENE	< 0.5 MCG/L
PH OF VOLATILE ALIQUOT	2

ANALYSIS: XPEST-PCB ORGANIC CHLORINE PESTICIDES & PCB'S (DES310-2)
DATE REPORTED: 04/30/2001 REPORT MAILED OUT

PARAMETER	RESULT
HEXACHLOROCYCLOPENTADIENE (C-56)	< 0.01 MCG/L
HEXACHLOROBENZENE	< 0.01 MCG/L
HCH, ALPHA	< 0.02 MCG/L
HCH, GAMMA (LINDANE)	< 0.02 MCG/L
HCH, BETA	< 0.02 MCG/L

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0004

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

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PAGE 3

RESULTS OF EXAMINATION

REPORT MAILED OUT

SAMPLE ID: 200180037 SAMPLE RECEIVED: 04/04/2001 20HR CHARGE: 35.00
 POLITICAL SUBDIVISION: GUILDERLAND COUNTY: ALBANY
 LOCATION: GUILDERLAND CENTER TRANSPORTATION/MAINTENANCE FACILITY
 TIME OF SAMPLING: 04/04/2001 12:55 DATE REPORTED: 06/01/2001

PARAMETER	RESULT
HCH, DELTA	< 0.02 MCG/L
HEPTACHLOR	< 0.02 MCG/L
ALDRIN	< 0.02 MCG/L
HEPTACHLOR EPOXIDE	< 0.02 MCG/L
ENDOSULFAN I	< 0.02 MCG/L
4,4'-DDE	< 0.02 MCG/L
DELDORIN	< 0.02 MCG/L
ENDRIN	< 0.02 MCG/L
4,4'-DDD	< 0.02 MCG/L
ENDOSULFAN II	< 0.02 MCG/L
4,4'-DDT	< 0.02 MCG/L
ENDRIN ALDEHYDE	< 0.02 MCG/L
ENDOSULFAN SULFATE	< 0.1 MCG/L
METHOXYCHLOR	< 0.02 MCG/L
NIREX	< 0.5 MCG/L
TOXAPHENE	< 0.05 MCG/L
CHLORDANE	< 0.05 MCG/L
AROCLOR 1221	< 0.05 MCG/L
AROCLOR 1232	< 0.05 MCG/L
AROCLOR 1016/1242	< 0.05 MCG/L
AROCLOR 1248	< 0.05 MCG/L
AROCLOR 1254	< 0.05 MCG/L
AROCLOR 1260	< 0.05 MCG/L

ANALYSIS: PP-SV SEMI-VOLATILE ORGANICS (GC/MS) REPORT MAILED OUT
 DATE REPORTED: 06/01/2001

PARAMETER	RESULT
PHENOL	< 19. MCG/L
BIS(2-CHLOROETHYL)ETHER	< 19. MCG/L
2-CHLOROPHENOL	< 19. MCG/L
2-METHYL PHENOL	< 19. MCG/L
2,2'-OXYBIS(1-CHLOROPROPANE)	< 19. MCG/L
4-METHYL PHENOL	< 19. MCG/L
N-NITROSODI-N-PROPYLAMINE	< 19. MCG/L
HEXACHLOROETHANE	< 19. MCG/L
NITROBENZENE	< 19. MCG/L
ISOPHORONE	< 19. MCG/L
2-NITROPHENOL	< 19. MCG/L
2,4-DIMETHYLPHENOL	< 19. MCG/L
BIS(2-CHLOROETHOXY)METHANE	< 19. MCG/L
2,4-DICHLOROPHENOL	< 19. MCG/L
4-CHLOROANILINE	< 19. MCG/L
4-CHLORO-3-METHYLPHENOL	< 19. MCG/L
2-METHYLNAPHTHALENE	< 19. MCG/L
2,4,6-TRICHLOROPHENOL	< 17. MCG/L
2,4,5-TRICHLOROPHENOL	< 19. MCG/L
2-CHLORONAPHTHALENE	< 19. MCG/L

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0005

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PAGE 4

RESULTS OF EXAMINATION

REPORT MAILED OUT

SAMPLE ID: 200180037 SAMPLE RECEIVED: 04/04/2001 20RR CHARGE: 35.00
POLITICAL SUBDIVISION: GUILDERLAND COUNTY: ALBANY
LOCATION: GUILDERLAND CENTER TRANSPORTATION/MAINTENANCE FACILITY
TIME OF SAMPLING: 04/04/2001 12:55 DATE REPORTED: 06/01/2001

PARAMETER	RESULT
2-NITROANILINE	< 47. MCG/L
DIMETHYLPHTHALATE	< 19. MCG/L
ACENAPHTHYLENE	< 19. MCG/L
2,6-DINITROTOLUENE	< 19. MCG/L
3-NITROANILINE	< 47. MCG/L
ACENAPHTHENE	< 19. MCG/L
2,4-DINITROPHENOL	< 47. MCG/L
4-NITROPHENOL	< 47. MCG/L
DIBENZOFURAN	< 19. MCG/L
2,4-DINITROTOLUENE	< 19. MCG/L
DIETHYLPHTHALATE	< 19. MCG/L
4-CHLOROPHENYL PHENYL ETHER	< 19. MCG/L
FLUORENE	< 19. MCG/L
4-NITROANILINE	< 47. MCG/L
2-METHYL-4,6-DINITROPHENOL	< 47. MCG/L
N-NITROSODIPHENYLAMINE	< 19. MCG/L
---> NOTE: CANNOT BE SEPARATED FROM DIPHENYLAMINE.	
4-BROMOPHENYL PHENYL ETHER	< 19. MCG/L
PENTACHLOROPHENOL	< 47. MCG/L
PERANANTHRENE	< 19. MCG/L
ANTHRACENE	< 19. MCG/L
CARBAZOLE	< 19. MCG/L
DI-N-BUTYL PHTHALATE	< 19. MCG/L
FLUORANTHENE	< 19. MCG/L
PYRENE	< 19. MCG/L
BUTYL BENZYL PHTHALATE	< 19. MCG/L
3,3'-DI(1-CHLOROBENZYLIDENE)	< 19. MCG/L
BENZO(a)ANTHRACENE	< 19. MCG/L
CHRYSENE	< 19. MCG/L
BIS(2-ETHYLHEXYL)PHTHALATE	0.3 MCG/L [BJ]
DI-N-OCTYL PHTHALATE	< 19. MCG/L
BENZO(b)FLUORANTHENE	< 19. MCG/L
BENZO(k)FLUORANTHENE	< 19. MCG/L
BENZO(a)PYRENE	< 19. MCG/L
INDENO(1,2,3-cd)PYRENE	< 19. MCG/L
DIBENZ(a,h)ANTHRACENE	< 19. MCG/L
BENZO(ghi)PERYLENE	< 19. MCG/L
TENTATIVELY IDENTIFIED COMPOUNDS - S.V. 010531	

EPA SAMPLE NO. <>

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

200180037

Lab Name: WCLR

Contract

Lab Code: WCLR

Case No.: 4403

SAS No.:

SDG No.: 4403

Matrix: Water

Lab Sample ID: 200180037

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WADSWORTH CENTER

REPORT MAILED OUT

RESULTS OF EXAMINATION

AGE 5

06
SAMPLE ID: 200180037
CLINICAL SUBDIVISION: GUILDERLAND
LOCATION: GUILDERLAND CENTER TRANSPORTATION/MAINTENANCE FACILITY
TIME OF SAMPLING: 04/04/2001 12:55
DATE REPORTED: 06/01/2001
CHARGE: 35.00
COUNTY: ALBANY
SAMPLE RECEIVED: 04/04/2001 2:00 PM

PARAMETER: Lab File ID: 3 0426F
Sample wt/vol: 1060 ML Date Received: 04/04/01
Level: L Date Extracted: 04/13/01
No. of tubes decanted: Date Analyzed: 04/26/01
Conc. Ext Vol: (uL)
Inj. Volume: 2.0 (uL)
GPC Cleanup: Dilution Factor:
TICS found: 1 pH:
CONCENTRATION UNITS: UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
75781833	trans-2-Ethyl-3-methylcyclohexanone	11.73	2	3N

**** ADDITIONAL PARAMETERS ****

ANALYSIS: KEY: PUL KETONES & PETROLEUM PRODUCTS PURGE & TRAP METHOD
DATE REPORTED: 04/19/2001
REPORT MAILED OUT

PARAMETER: RESULT:
2-BUTANONE (MEK) < 10. MCG/L
4-METHYL-2-PENTANONE (MIBK) < 10. MCG/L
ACETONE < 10. MCG/L
PETROLEUM HYDROCARBONS - SEE TEXT
The purge and trap GC-EID chromatographic tracing for this sample does <
< not show a pattern indicative of petroleum hydrocarbon contamination. <

ANALYSIS: ICP-1A ICP GROUPING 1A
DATE REPORTED: 04/30/2001
REPORT MAILED OUT

PARAMETER: RESULT:
MERCURY < 0.2 MCG/L
ARSENIC < 3 MCG/L
SELENIUM < 5 MCG/L
CADMIUM < 1 MCG/L
ANTIMONY < 1 MCG/L
THALLIUM < 0.5 MCG/L
LEAD < 5 MCG/L
BERYLLIUM < 1 MCG/L
SILVER < 5 MCG/L
BARIUM < 5 MCG/L
COBALT < 5 MCG/L
CHROMIUM 6 MCG/L
COPPER 255 MCG/L
IRON 140 MCG/L
MANGANESE < 5 MCG/L
NICKEL 340 MCG/L
STRONTIUM < 5 MCG/L
TITANIUM

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0007

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WADSWORTH CENTER

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PAGE 6

RESULTS OF EXAMINATION

REPORT MAILED OUT

SAMPLE ID: 200120037 SAMPLE RECEIVED: 04/04/2001 20HR CHARGE: 35.00
POLITICAL SUBDIVISION: GUILDERLAND COUNTY: ALBANY
LOCATION: GUILDERLAND CENTER TRANSPORTATION/MAINTENANCE FACILITY
TIME OF SAMPLING: 04/04/2001 12:55 DATE REPORTED: 06/01/2001

PARAMETER	RESULT
VANADIUM	< 5. MCG/L
ZINC	94. MCG/L
MOLYBDENUM	< 5. MCG/L
TIN	6. MCG/L
ALUMINUM	< 50. MCG/L
CALCIUM	93. MG/L
POTASSIUM	3. MG/L
MAGNESIUM	20. MG/L
SODIUM	38. MG/L

**** END OF REPORT ****