ENVIRON

February 19, 2002

Federal Express

Carl Hoffman
New York State Department of Environmental Conservation
Bureau of Hazardous Site Control
50 Wolf Road; Room 252
Albany, New York 12233-7010

Re: December 2001 Ground Water Monitoring Results
Former Bulova Corporation Facility
Valley Stream, New York
NYSDEC Site No. 1-30-084

Dear Mr. Hoffman:

ENVIRON International Corporation (ENVIRON) has prepared this letter, on behalf of Bulova Corporation (Bulova), to present results of the ground water monitoring activities completed during December 2001 at the former Bulova facility in Valley Stream, New York (the "Site"). The ground water monitoring activities completed during December 2001 represent the seventh quarterly sampling event to be performed during a two-year monitoring period. The following sections briefly summarize the results of these activities. As detailed in the *Operation and Maintenance Plan*, ENVIRON will prepare a report regarding the on-going monitoring activities following the two-year monitoring period.

The quarterly monitoring activities completed during December 2001 included the measurement of ground water levels at seven monitoring wells (MW-HD1 through MW-HD7) and the collection of ground water samples from four monitoring wells (MW-HD2, MW-HD4, MW-HD6, and MW-HD7). Activities completed during the December 2001 monitoring event were performed in accordance with the procedures detailed in the *Operation and Maintenance Plan* (ENVIRON, March 2000/May 24, 2000).

Ground water elevation data is summarized in Table 1 and presented on Figures 1 and 2. Consistent with the results of prior investigations, ground water level measurements collected during December 2001 indicate that local ground water flow at the Site is directed toward the southeast at a very small hydraulic gradient of less than 0.001 ft/ft. The ground water elevation at off-site monitoring well MW-HD7 indicates that regional ground water flow may be directed toward the south/southwest.

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Analytical results associated with the December 2001 ground water sampling event are summarized in Table 2. With the exception of Freon 113, reported VOC concentrations at all monitoring wells during December 2001 were generally lower than prior sampling results and continue to display an overall decreasing trend. The December 2001 sampling event detected an increased Freon 113 concentration at monitoring well MW-HD4, however, this concentration is within the range of historical Freon concentrations detected at this well. Reported VOC concentrations at downgradient well MW-HD6 continue to display an overall decreasing trend with a significant reduction in the reported Freon 113 concentration identified during December 2001. Historical site-related VOC concentrations at MW-HD4 are depicted in Figures 3 and 4. VOC concentrations detected at monitoring well MW-HD7 during December were generally consistent with prior sampling results.

A Data Usability Summary Report associated with the December 2001 sampling event is provided in Attachment A. Based on ENVIRON's review, all samples were successfully analyzed for the requested compounds. The percent recovery of the surrogate standard dibromofluoromethane for the sample from MW-HD4 exceeded the upper control limit for the five times dilution analysis. Therefore, the positive Freon 113 result is estimated with a high bias.

Please contact us at your earliest convenience to discuss any questions or comments regarding the quarterly monitoring activities. The next quarterly monitoring event is scheduled for March 2002. Following the March 2002 monitoring event, ENVIRON will prepare a report summarizing the results of the two-year monitoring period from June 2000 through March 2002.

Sincerely,

Thomas V. Fusillo
Principal

Michael J. Potts
Manager

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02-1961A\PRIN_WP\13764v7.DOC

Attachments

cc: C. Montroy (NYSDEC)
B. Weber (Bulova)

TABLES

TABLE 1
Ground Water Elevation Data
Former Bulova Corporation Facility – Valley Stream, New York

Monitoring Well	Top of Casing Elevation (ft AMSL)	December 19, 2001	
		Depth to Water (ft TOC)	Elevation (ft AMSL)
MW-HD1	9.93	5.98	3.95
MW-HD2	9.45	5.27	4.18
MW-HD3	9.93	5.92	4.01
MW-HD4	10.09	6.41	3.68
MW-HD5	9.45	5.67	3.78
MW-HD6	9.97	6.36	3.61
MW-HD7	9.33	5.55	3.78

Notes:

1. Abbreviations:
   TOC: Top of casing
   AMSL: Above mean sea level

TABLE 2
Summary of December 2001 Ground Water Sampling Results
Former Bulova Corporation Facility - Valley Stream, New York

Location Sample Collection Date Sample Method Comments	MW-HD2 12/19/01 Bailer	MW-HD4 12/19/01 Bailer	MW-HD6 12/19/01 Bailer	MW-HD7 12/19/01 Bailer	MW-HD7 12/19/01 Bailer Duplicate	New York Ambient Water Quality Criteria
Volatile Organic Compounds						
Benzene	ND	ND	ND	ND	ND	0.7
Chlorobenzene	**6.8**	ND	ND	ND	ND	5
1,2-Dichlorobenzene	ND	0.62 (j)	ND	ND	ND	3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	3
1,4-Dichlorobenzene	1.9 (j)	**4.3 (j)**	1.4 (j)	ND	ND	3
Dichlorofluoromethane	ND	ND	ND	ND	ND	5
1,1-Dichloroethane	ND	**26.4**	ND	ND	ND	5
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.6
1,1-Dichloroethene	ND	**71.3**	ND	ND	ND	5
cis-1,2-Dichloroethene	ND	2.1 (j)	ND	ND	ND	5
Freon 113	ND	**550 (j)**	**84.8**	ND	ND	5
Tetrachloroethene	ND	**6.5**	1.5	ND	ND	5
1,1,1-Trichloroethane	ND	**38.7**	ND	ND	ND	5
Trichloroethene	ND	**16.9**	0.98 (j)	1.7	1.7	5

Notes:

1. All concentrations are reported in micrograms per liter (µg/L) (parts per billion [ppb]).
2. Only targeted compounds detected in one or more samples during the two-year monitoring period are listed in this table.
3. Bold values meet or exceed the New York Ambient Water Quality Criteria.
4. Abbreviations:
   - ND = Not Detected
   - (j) = Estimated Concentration

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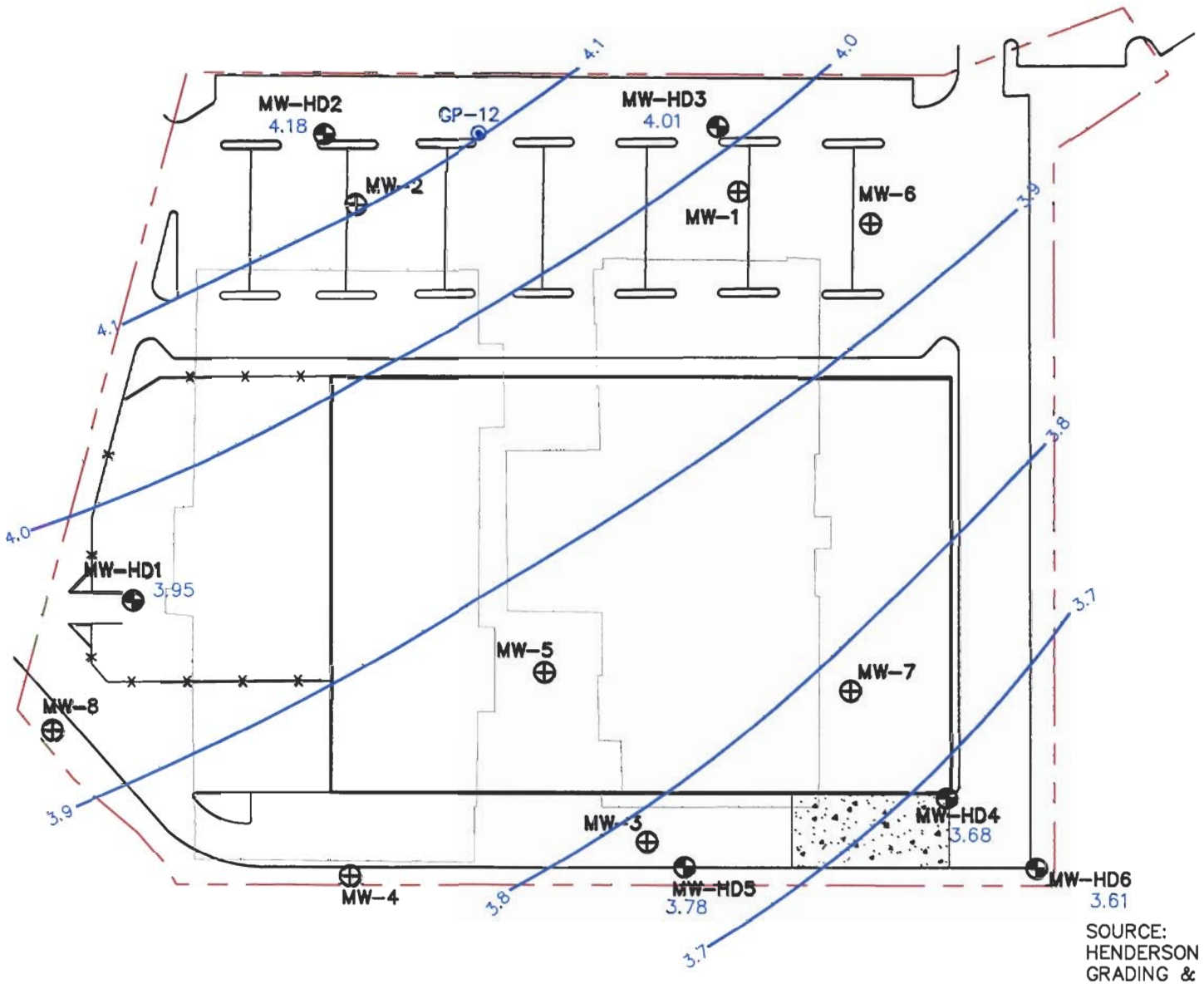
FIGURES



LEGEND

- PROPERTY BOUNDARY
- BUILDING OUTLINE
- FORMER BUILDING
- PAVED AREA
- CONCRETE AREA
- ⊕ ABANDONED MONITORING WELL
- ⊕ MONITORING WELL
- 4.0 APPROXIMATE GROUNDWATER CONTOUR AND ELEVATION; DECEMBER 19, 2001 (FT AMSL)

SOURCE:
HENDERSON AND BODWELL CONSULTING ENGINEERS
GRADING & UTILITIES PLAN, SEPT. 1992

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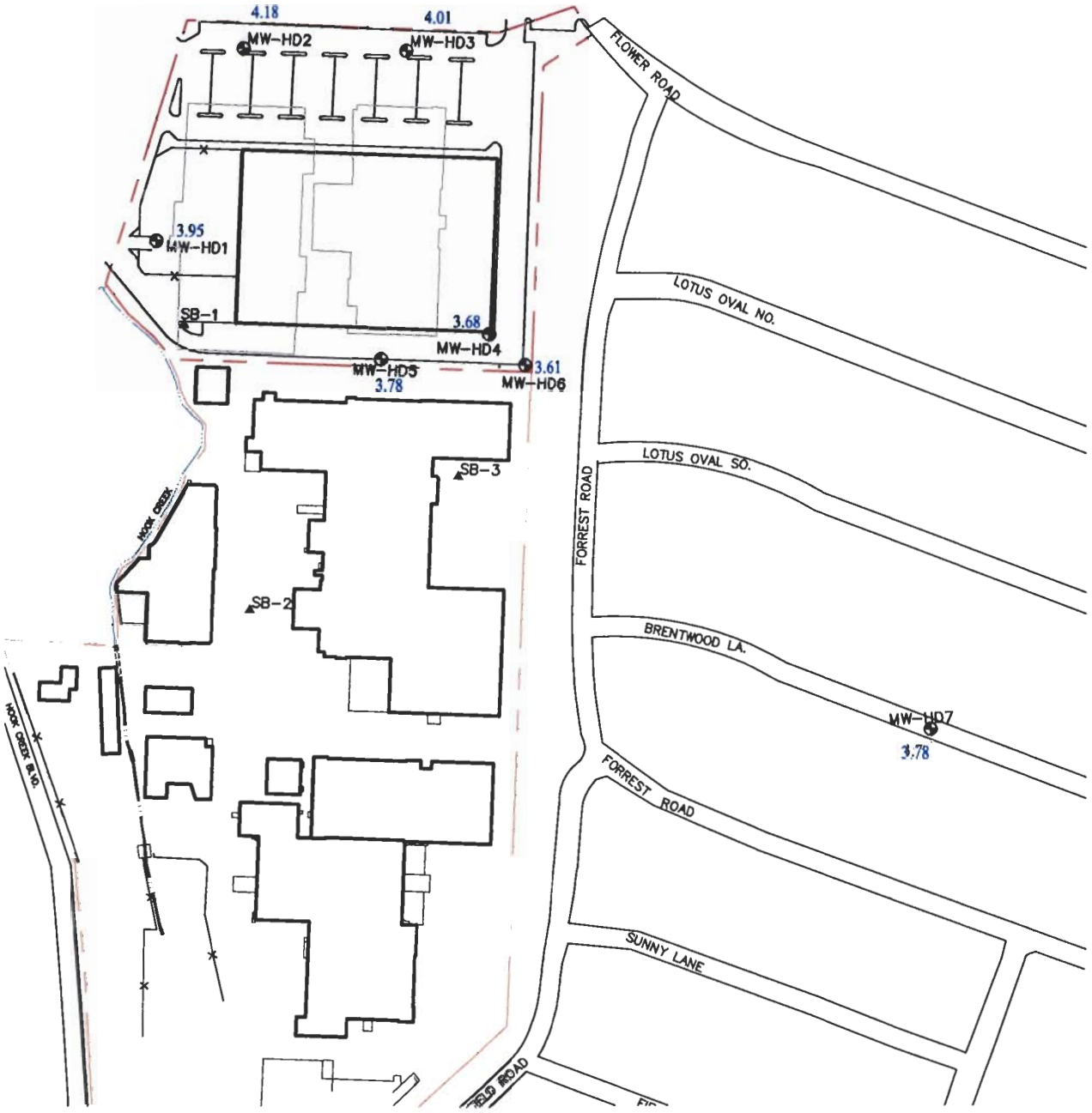
DRAFTED BY: TSP | DATE: 1/9/02

GROUND WATER POTENTIOMETRIC SURFACE – DECEMBER 2001

FORMER BULOVA CORPORATION FACILITY
VALLEY STREAM, NEW YORK

FIGURE
1

1961AW15



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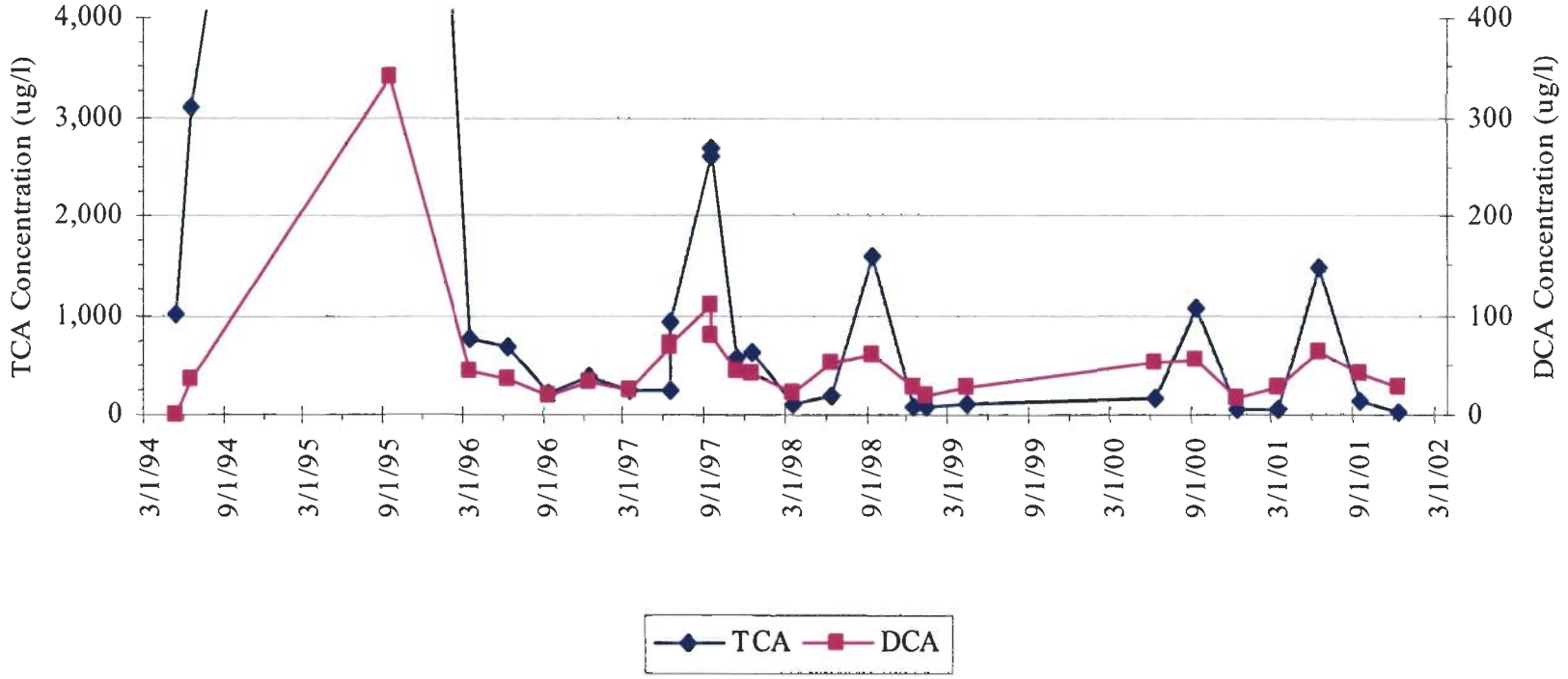
GROUND WATER ELEVATIONS–DECEMBER 2001

FORMER BULOVA CORPORATION FACILITY
VALLEY STREAM, NEW YORK

FIGURE
2

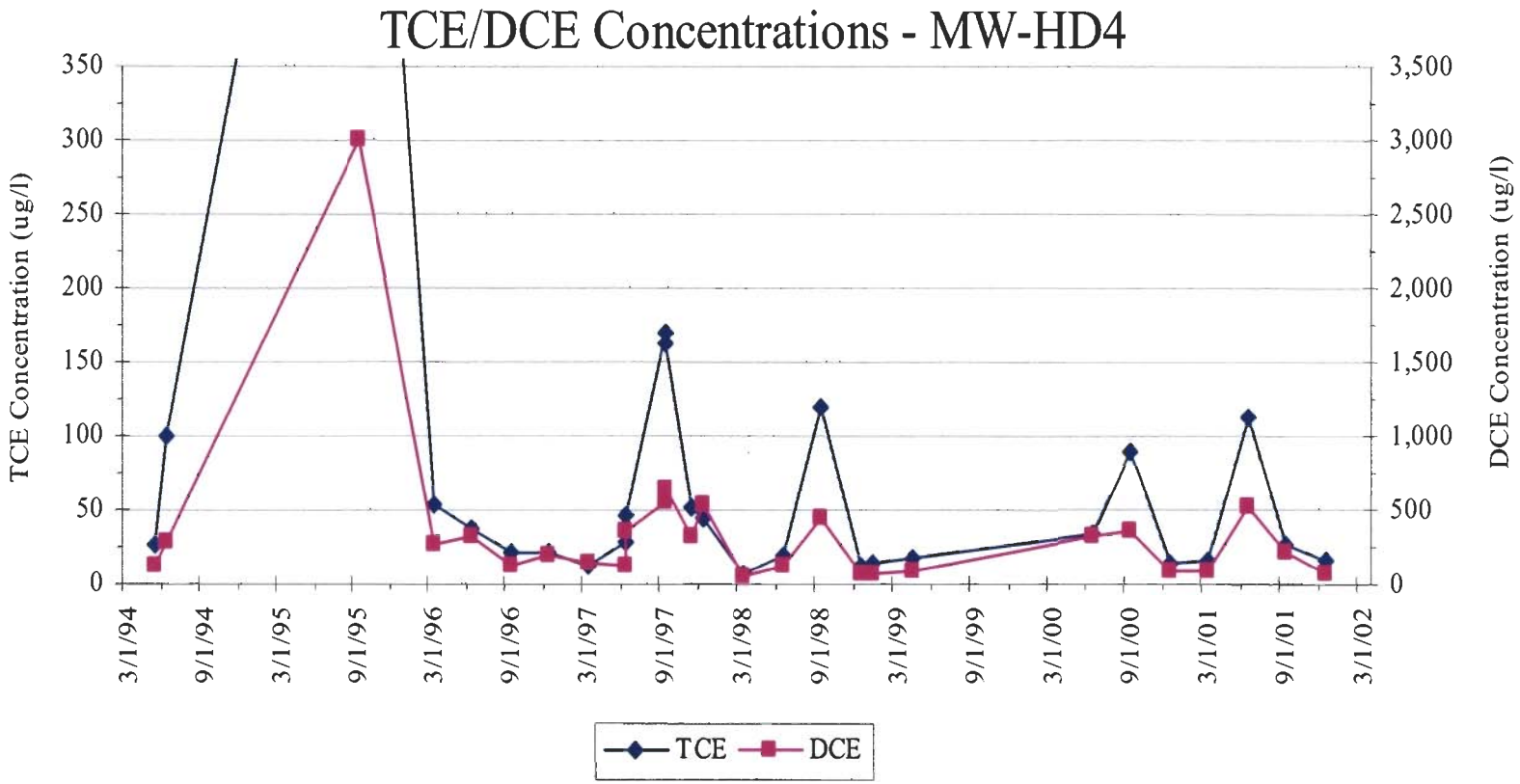
1961AG4C

TCA/DCA Concentrations - MW-HD4



NOTE: REPORTED TCA CONCENTRATION DURING SEPTEMBER 1995 IS BEYOND SCALE OF FIGURE.

ENVIRON DRAFTED BY: HFZ/KPM DATE: 1/17/02	**TCA/DCA CONCENTRATIONS - MW-HD4** **FORMER BULOVA CORPORATION FACILITY** **VALLEY STREAM, NEW YORK**	FIGURE **3** U:\02\1961AD02A.PPT



NOTE: REPORTED TCE CONCENTRATION DURING SEPTEMBER 1995 IS BEYOND SCALE OF FIGURE.

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DRAFTED BY: HFZ/TSP | DATE: 2/15/02

TCE/DCE CONCENTRATIONS - MW-HD4
FORMER BULOVA CORPORATION FACILITY
VALLEY STREAM, NEW YORK

FIGURE
4

U:\02\1961AD02A.PPT

ATTACHMENT A

Data Usability Summary Report

DATA USABILITY SUMMARY REPORT (DUSR)
BULOVA: VALLEY STREAM
SAMPLING EVENT – DECEMBER 2001

I. INTRODUCTION

During these sampling events, a total of seven aqueous samples, including wash and trip blanks were collected by ENVIRON and submitted to Accutest Laboratories in Dayton, New Jersey for analysis. The aqueous samples were analyzed for priority pollutant volatile organics (VOC) plus Freon 113 using SW846 Method 8260. Accutest prepared one data package (Job Number N5015) using the Category B Deliverables for New York Analytical Services Protocol (ASP).

ENVIRON reviewed the analytical and quality assurance/quality control (QA/QC) results contained in the data packages as well as the raw data. The data validation procedure and criteria were based on the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (February 1994), and the appropriate methods where applicable. The USEPA data qualifiers used in this report are listed in Table 1.

Overall, the data is acceptable. The data package provided by Accutest met the requirements for a DUSR. No data transfer deviations were identified.

The description of the data review is in Section II and summarizes the problems detected that required the qualification of data. All samples were successfully analyzed for the requested analyses. One data point is estimated ("J") because of a high surrogate standard recovery.

TABLE 1 Data Qualifier Definitions	
The following definitions provide brief explanations of the national qualifiers assigned to results in the data review process.	
U	The analyte was analyzed for, but was not detected above, the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of any analyte for which there is presumptive evidence to make a "tentative identification."
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

II. DATA REVIEW

VOLATILE ORGANIC ANALYSIS (SW846 Method 8260)

A. Technical Holding Time

The holding time requirement was met for all samples.

B. Instrument Performance Check

All field samples were analyzed within the 12 hour period following the injection of the BFB. Method 8260 requires analysis within 12 hours of the instrument performance check.

C. Calibration

Initial Calibration

No problems were identified during this review.

Continuing Calibration

No problems requiring data qualification were identified during this review.

D. Blanks

No problems were identified during this review.

E. Surrogate Standards

Sample MWHD4-011219: The percent recovery for dibromofluoromethane exceeds the upper control limit for the 5 times dilution analysis for this sample. The Freon 113 is the only analyte reported from this analysis. The positive Freon 113 result is estimated with a possible high bias and qualified "J".

F. Matrix Spike/Matrix Spike Duplicate/Blank Spike (MS/MSD/BS)

The MS/MSD/BS analyses are used to determine long-term precision and accuracy of the analytical method for various matrices and/or sites. MS/MSD analyses are not used by themselves to qualify data points but are used in conjunction with other QC data to determine data usability issues.

No problems requiring the qualification of data were identified during this review.

G. Internal Standards

No problems were identified during this review.

H. Compound Identification, Quantitation and Detection Limits

No problems were identified during this review.

I. Overall Data Assessment

Data quality is acceptable.