LINCOLN
APPLIED GEOLOGY, INC.
Environmental Consultants

JAN 25 2001

January 24, 2001

S.B. Collins, Inc.
Mr. Carl Ruprecht
P. O. Box 671
St. Albans, VT 05478

RE: Former Village Beverage, Colchester, Vermont (VDEC Site #87-0068) - Quarterly Site Operations Update, Fourth Quarter 2000.

Dear Mr. Ruprecht:

Lincoln Applied Geology, Inc. (LAG) has continued with systems operation, maintenance, and monitoring work at the former Village Beverage site on behalf of S.B. Collins, Inc. (SBC). LAG currently conducts remediation system checks and maintenance on a bimonthly basis. Ground water elevations, photoionization detector (PID) headspace assays, and induced vacuum are gauged monthly. Ground water quality sampling and dissolved oxygen (DO) monitoring is conducted on a quarterly basis. Ground water sampling was performed on November 22, 2000. Results of the most recent site sampling and monitoring are included within this report along with a summary of the other monitoring work that was completed during the past quarter.

Enclosed for your use and review are the following work products:

Table 1 . . . . . Ground Water and Stream Elevations;
Table 2 . . . . . Photoionization Detector (PID) Results;
Table 3 . . . . . Dissolved Oxygen, Temperature, and Induced Vacuum;
Table 4 . . . . . Water Quality Summary;
Table 4A . . . . . Plume Length vs. Time;
Table 5 . . . . . System Data for Dual Phase Extraction (DPE) Wells;
Table 6 . . . . . DPE System Data and Contaminant Removal Rates;
Table 7 . . . . . Propane Usage Data;
Table 8 . . . . . Ground Water Treatment System Flow Rates and Mass Removal Rates;
Table 9 . . . . . Ground Water Treatment System Sampling Results;
Table 10 . . . . . System Data for AS Wells;
Figure 1 . . . . . Ground Water Elevation Contour for November 22, 2000;
Figure 2 . . . . . Water Quality Summary Map for November 22, 2000;
Charts 1-2 . . . . . Ground Water Levels vs. Time;
Charts 3-4 . . . . . PID Headspace Assays vs. Time;
Charts 5-6 . . . . . BTEX Water Quality Trends;
Charts 7-8 . . . . . MTBE Water Quality Trends;
Chart 9 . . . . . PID-Based Vapor Phase Hydrocarbon Removal Rate vs. Time;
Chart 10 . . . . . Cumulative PID-Based Vapor Phase Hydrocarbon Removal;
Appendix A . . . . . Water Quality Analytical Reports; and,
Appendix B . . . . . Air Quality Analytical Reports and Evaluation.

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Water Levels and Product Recovery

Ground water and stream elevation data for the past year are summarized on **Table 1** and historical data are presented graphically for several key wells on **Charts 1** and **2**. Ground water levels generally increased across the site during the past quarter. The Soakease adsorbent sock in MW-10 was replaced during the November 22, 2000 site visit.

A ground water contour map for the data collected on November 22nd is included as **Figure 1**. Data for well MW-11 was excluded from the ground water contouring since it was dry. On November 22nd the dual phase extraction (DPE) system was extracting ground water and air from extraction wells DPE-1, 2, and 4, and air sparging was also active in wells AS-2 and AS-4. A slight mounding of the ground water table is apparent near extraction well DPE-1 and AS-2 which probably results from active air sparging in AS-2 and AS-4. **Figure 1** shows that the ground water flow direction is to the west towards Indian Brook.

PID Headspace Assays

PID headspace assays for the past year are presented on **Table 2**. Since September 2000, PID readings greater than 100 parts per million (ppm) have been observed in wells MW-6, 10, 14, and 17. PID assays above background (BG), but less than 50 ppm, were also recorded in wells MW-9, and 16, as well as vapor monitor wells V-3 and V-6 during the past quarter. Background (BG) readings have been recorded in monitor wells MW-3, 4, 5, 7, 8, 11, 12, and 15, vapor monitor wells V-1, 4, and 5, and the ground water flow enhancement trench sump since September 2000. **Charts 3** and **4** present graphical evaluations of PID assays vs. time for several source area wells. Increases from September PID values were noted for MW-6 and MW-10. All of the remaining monitor wells and vapor points showed decreasing or stable PID levels when compared with the September 2000 data. However, long-term trends continue to indicate increasing concentrations in MW-6 and 17. These results also show the sensitivity of PID headspace levels to changes in ground water elevations.

Dissolved Oxygen and Temperature Monitoring

Dissolved oxygen (DO) and temperature data collected during the past sixteen months are summarized on **Table 3**. On November 22nd, DO measurements were collected during DPE system operation. Air sparging was also on-going using sparge wells AS-2 and AS-4 immediately prior to the DO round. That day DO levels in wells MW-3, 7, 8, 12, and 14, and vapor monitoring points V-3, V-5, and V-6 were greater than 1.0 milligrams per liter (mg/l), suggesting that aerobic conditions exist in these areas.

Ground water temperature data show lower temperatures from wells in the vicinity of the air sparge system (MW-17) and downgradient of the USTs and septic system leachfield (MW-6, 8, 14, and 16). However, wells MW-3, 9, 10, 15, Sump, and V-1 showed anomalously high ground water temperatures (>30°C), indicating that the temperature probe was faulty.

Induced Vacuum

Induced vacuum levels at the monitoring well heads are typically measured during full-time DPE system operation to assess the effectiveness of the system at extracting vapors from the subsurface. Induced vacuum levels were collected during the December 20th visit. The existing data are shown on **Table 3**. Induced vacuums ranged between 0 "H_2O and 0.05 "H_2O.

Water Quality Sampling

Ground water quality samples were collected from 13 of the 14 monitoring wells, vapor monitoring points V-1 and V-3, and all of the surface water, sump, and storm sewer sampling locations on November 22, 2000. Monitor well MW-11 was not sampled because it was dry. The water quality laboratory analytical reports are included in **Appendix A** and are summarized on **Table 4**. The data indicate that dissolved phase petroleum contaminants were not present in detectable concentrations in any of the stream samples.

Benzene, toluene, ethylbenzene, and xylenes (BTEX) levels remain elevated in the source area wells (MW-6, 7, and 17). MW-17 BTEX concentrations increased when compared with the August 21, 2000 sampling event, but decreases in both MW-6 and 7 were noted over the same time period. These observations are depicted graphically on **Chart 5**. In the area downgradient and across Route 7, MW-9 BTEX concentrations increased since the August sampling event. In addition, BTEX concentrations increased in MW-10, 15, and 16 over the past quarter. BTEX level declines were noted for MW-3, 4, 5, 14, and V-1 and V-3 over the past quarter (see **Chart 6**).

BTEX concentrations in the flow enhancement trench sump and storm sewer outflow water samples increased since the August 21st sampling event. The greatest increase was noted in the sump from 3,389 parts per billion (ppb) to 6,094 ppb. BTEX concentration declines were detected in the sump effluent and sump effluent composite. The greatest decline detected was in the sump effluent, from 15,391 ppb to 13,995 ppb.

Methyl-tertiary butyl-ether (MTBE) levels are shown on **Charts 7 and 8**. The greatest MTBE concentration detected in November was 102,000 ppb in MW-17. In source area wells MW-6 and 17 (**Chart 7**), long-term MTBE concentrations appear to be stable to slightly increasing. MW-7 MTBE levels appear to be stable to slightly decreasing. Despite long-term trends, recent MW-6 and MW-7 MTBE concentrations during active remediation have evidenced relatively consistent decreases since August 1998. In the downgradient wells MW-4, 9, 10, and 11 (**Chart 8**), long-term MTBE concentrations appear to be stable to declining.

The approximate areal extent of the BTEX dissolved hydrocarbons are shown on **Figure 2**, the Water Quality Summary Map for November 22, 2000. The data describe a dissolved phase petroleum plume extending downgradient from the source area to the west and northwest. The BTEX contaminant distribution appears similar to previous maps of the contaminant plume. Further comparison with earlier maps elucidates how plume isoconcentrations wax and wane over time. As shown on **Table 4A**, the length of the 10,000

ug/l BTEX concentration contour prior to system startup (pre-May 1999) ranged from 338 to 364 feet, with an average length of 351 feet. Since AS/DPE system operation was initiated, the 10,000 ug/l contour length has ranged from 210 to 360 feet (average of 309 feet). The length of the plume on November 22nd was approximately 355 feet long. These data continue to suggest that the dissolved hydrocarbon plume has stabilized since active remediation began at the site.

Remedial System Operation & Maintenance

A summary of significant operation, maintenance, and troubleshooting work performed on the AS/DPE system during the past quarter is provided below.

- September 2000 - The system was monitored on September 6th and 27th. On September 6th the system was shut down due to a control fault caused by an air failure and Catox failure. On September 27th the system was shut down due to a control fault caused by a flame failure. The system was restarted each time and made fully operational.

- October 2000 - The system was monitored on October 10th and 23rd. On October 10th the system was off on arrival due to a power interruption that caused a high temperature shutdown and control fault. On October 23rd the system was off on arrival due to a faulty organic vapor sensor. The system was restarted each time and made fully operational.

- November 2000 - The system was monitored on November 10th and 22nd. On November 10th, the system was off on arrival due to a flame failure. The system was restarted and made fully operational. In addition, at this time a new liquid phase granular activated carbon (GAC) unit was installed at the effluent location, and the effluent GAC rotated into the influent location. On November 22, the system was running upon arrival.

- December 2000 - The system was monitored on December 6th and 20th. On December 6th, the system was off on arrival due to high temperatures and subsequent shutdown. On December 20th, the system was off on arrival due to a power interruption. The system was restarted each time and made fully operational.

Some of the recent system shutdowns are related to excess water and slug flow from rainfall and recharge events that overwhelm the moisture knockout and transfer pump, causing shutdown. The DPE drop tubes will be adjusted in an attempt to reduce the periodic slug flow problems, and we will continue to work diligently to reduce the shutdowns and improve the efficiency of the system. A recent problem with insufficent flow of propane gas to the Vac50 oxidizer has caused shutdowns due to low temperature (inability to maintain adequate temperature for Vac50 operation). This gas flow problem may be due to a faulty regulator, and is currently being evaluated and corrected by Agway.

DPE System Operational Data Summary

During routine operation and maintenance visits, LAG monitors DPE system vacuums, air flow rates, PID levels, pressures, temperatures, and propane consumption rates in order to evaluate and optimize system performance. **Table 5** includes applied vacuums, air flow rates, and PID levels in the DPE wells during system operation. A summary of the individual DPE well data for the quarter is provided below.

	Applied Vacuum ("Hg)			Weighted Air Flow (scfm)			PID Readings (ppm)		
Well	**Oct 00**	**Nov 00**	**Dec 00**	**Oct 00**	**Nov 00**	**Dec 00**	**Oct 00**	**Nov 00**	**Dec 00**
DPE-1	5.0-7.0	4.0-6.0	5.0	0	0-47.5	0	NR	NR	NR-BG
DPE-2	OFF	0.5-2.0	OFF	OFF	0-72.6	OFF	OFF	NR	OFF
DPE-3	3.5-4.5	OFF	0.5-3.5	0	OFF	0	NR	OFF	NR-7.4
DPE-4	OFF	4.5-6.0	4.5-5.0	OFF	0-75.3	0	OFF	NR	NR
DPE-5	4.5-5.0	OFF	OFF	0	OFF	OFF	NR	OFF	OFF

Notes: NR = no readings collected. BG = Background. 0 = No vacuum for given DPE well (off), no air flow (off), no PID (off)

Table 6 includes PID readings, pressures, temperatures, and air flow rates that were measured at the influent to the Vac50 catalytic oxidizer. These data were used to calculate the approximate vapor phase hydrocarbon removal rates achieved during system operation. Based on the data collected from October through December, calculated vapor phase hydrocarbon removal rates of 0.0 to 2.5 pounds per day (lb/day) were noted. The PID-based vapor phase hydrocarbon removal rates over time are presented graphically on **Chart 9**. Since the new DPE system went on-line, a clearly decreasing trend in the vapor phase hydrocarbon removal rate is observed. This is due to overall decreasing ground water and vadose zone contamination concentrations. **Chart 10** includes a graphical evaluation of the cumulative vapor phase hydrocarbon mass removal. Based on the calculations shown on **Table 6**, LAG estimates that the DPE system has extracted and treated a total of approximately 1,476 pounds of vapor phase hydrocarbons through December 20, 2000.

One air quality sample was collected from the influent to the Vac50 catalytic oxidizer on August 21, 2000 using an air sampling pump and charcoal adsorption tubes. The air sample was collected at a rate of 1.0 liters per minute for 20 minutes during systems operation. The air quality results and calculations are provided in **Appendix B**. The results indicate a total hydrocarbon concentration of 809.45 ppmv (by laboratory analysis) as compared to a PID measured concentration of 7 ppm. There is obviously a tremendous difference between the laboratory and field PID results. We believe moisture/water vapor effects are causing the low PID readings obtained. The percentage of BTEX vapors (4.3%) was slightly greater than MTBE vapors (4.0%), however total other hydrocarbons in the extracted air dominate at 92%.

LAG typically tracks propane consumption rates in order to evaluate the vapor phase

treatment system performance. However, the Vac50 hour meter was not functional over the past quarter. It will be replaced in January 2001. The propane usage data are summarized on **Table 7**.

In accordance with Discharge Permit #3-1455, LAG records ground water treatment system discharge flow rates at least twice per month. These data are summarized on **Table 8**. The data indicate that ground water discharge flow rates from the dissolved phase treatment system between October and November 2000 ranged from 12 to 82 gallons per day (gpd). These flow rates are well below the Discharge Permit limits of 2,160 gpd average and 7,200 gpd maximum discharge. A total of 2,534 gallons of treated ground water were discharged between October 10 and December 6, 2000.

Twice monthly sampling of the discharge treatment system is also performed in accordance with the permit. The influent, between carbon, and effluent samples are analyzed for BTEX, MTBE, and other petroleum compounds. Laboratory analytical reports for the discharge permit sampling are included in **Appendix A** and the data are summarized on **Table 9**. Since July 2000, BTEX levels in the influent sample ranged from 4 ppb to 66.1 ppb, and MTBE ranged from non-detect (<10 ppb) to 184 ppb. The influent dissolved BTEX and MTBE concentrations, which are assumed to be approximately 50% of the total gasoline concentration (based on the CAFI sampling data), are multiplied by the discharge flow rates to determine the mass of dissolved phase gasoline extracted and treated. However, upon review of the spreadsheet formulas, it was discovered that erroneous estimations of the cumulative pounds of dissolved gasoline treated by the system had been made. Correction and recalculation of these formulas provide an estimate that 4.90 pounds of gasoline have been extracted in the dissolved phase and treated using the DPE system as of December 6, 2000. These data are summarized on **Table 8.**

AS System Operational Data Summary

During routine site visits, LAG monitors AS system pressures and flow rates to evaluate and optimize the sparging system performance. The four AS wells (AS-2, 3, 4, and 5) are selectively operated with the corresponding DPE wells to ensure that volatilized contaminants are captured by the DPE system. AS system monitoring data are included on **Table 10.** Air sparge well AS-2 was turned off between September 27 and October 23, 2000. During November, this well was "on" and operated at pressures ranging from 3.2 to 3.4 pounds per square inch (psi) and maintained an air flow rate of 35.4 static cubic feet per second (scfm). This well was again turned off during the December 6th site visit, but was "on" for the December 20th visit. Sparge well AS-3 was turned on and operated from October 10th through 23rd. The well was turned off for November and turned on again in December. During periods of operation, pressures ranging between 2.6 and 4.2 psi were noted and air flow rates between 0 and 51.6 scfm were observed in this well. Air sparge well AS-4 was operated throughout November and December at pressures ranging from 2.0 to 2.6 psi and air flow rates between 0 and 40.8 cubic feet per minute (cfm). Air sparge well AS-5 was operated in October at pressures ranging from 2.2 to 3.8 psi and air flow rates between 31.6 and 57.7 cfm. AS-5 was shut down throughout November and December. The applied pressure at each well

head will continue to be minimized to prevent VOC excursion outside of the DPE system's area of influence, and to prevent damage to the air sparge well seals.

Conclusions and Recommendations

Based on site observations, system troubleshooting and performance results, and the available data, LAG offers the following conclusions and recommendations:

- Ground water elevations across the site generally increased over the past quarter.
- PID assays of vapor phase contaminants in source area monitor well headspaces show long-term increasing trends in MW-6 and 17. However, all source area wells have exhibited decreasing trends since March 2000, suggesting that the system is effectively removing vapor phase contamination.
- Induced vacuum monitoring data indicate that the DPE system is effectively inducing air flow through the subsurface in the source area.
- Water quality data collected since 1997 indicate that the average plume length has decreased since system operation was initiated.
- Mass removal estimates indicate that approximately 1,481 total pounds of vapor (1,476 pounds) and dissolved (4.9 pounds) phase gasoline have been extracted and treated through December 2000. This is equivalent to approximately 6.8% of the total gasoline mass in the subsurface or 10.3% of the source area gasoline mass.
- DPE system monitoring data indicate that contaminated ground water is being extracted and treated effectively.
- The broken Vac50 hour meter cumulative counter will be replaced in January 2001.

The next round of water quality sampling is scheduled for February 2001. At that time an air quality sample will be collected from the influent to the Vac50 oxidizer. The next operation, maintenance, and monitoring report will be submitted shortly after the data is received and reviewed. Please do not hesitate to call me or William Norland, Senior Project Manager, at (800) 477-4384 if you have any questions or comments regarding this report.

Sincerely,
Lincoln Applied Geology, Inc.

John L. Kelliher
Hydrologist

JLK/jlk
enclosures
cc: Richard Spiese

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Project: Former Village Beverage
Location: Colchester, Vermont

Table 1
Site # 87-0068
Sheet 1 of 1

Ground Water and Stream Elevations (feet)

Data Point	TOC[1,2]	12-22-99	3-1-00	4-17-00	5-17-00	6-28-00	7-24-00	8-21-00	9-27-00	10-10-00	11-22-00	12-20-00
MW-3	95.23	86.63	87.98	88.73	87.98	86.58	87.04	86.43	85.98	86.18	86.29	87.28
MW-4	80.28	77.73	78.31	78.28	78.31	77.43	77.89	76.18	75.68	76.08	76.93	77.43
MW-5	93.98	86.62	86.03	87.23	86.92	86.18	86.48	86.88	85.94	86.23	86.55	87.43
MW-6	97.71	95.01	96.35	95.21	95.09	94.61	94.87	94.51	94.26	94.52	94.89	95.46
MW-7	96.85	91.70	91.27		92.33	91.45	91.84	91.65	91.05	91.23	91.96	92.54
MW-8	105.88	104.03	104.23	104.08	103.18	103.08	103.44	102.59	102.38	102.68	103.49	103.63
MW-9	80.84	74.96	75.79	75.39	75.52	77.24	77.64	75.24	74.64	74.92	74.88	75.79
MW-10	83.66	78.36	76.46	79.41	79.45	78.86	79.13	78.51	78.06	78.45	78.76	79.39
MW-11	81.45	77.03	77.84	78.08	78.09	76.80	77.27	[illegible]	>74.96	>74.80	<76.25	76.70
MW-12	79.21	75.63	75.64	76.21	75.55	74.86	75.16	72.97	72.62	72.96	74.38	75.02
MW-14	100.00	97.35	97.29	97.55	97.40	97.45	97.20	97.20	96.54	96.86	97.47	97.92
MW-15	96.67	89.30	88.04	88.82	89.80	89.57	90.08	89.10	88.72	88.95	89.17	89.82
MW-16	100.44	96.94	94.73	96.49	97.73	97.64	97.85	96.89	96.54	96.85	96.92	97.50
MW-17	96.31	93.36	89.21	93.86	93.56	92.01	92.50	91.93	91.66	91.91	92.71	93.31
Sump	82.49		78.39	79.44	79.39	78.99	79.24	78.39	77.97	78.24	78.78	79.17
V-1	95.05	92.67	93.65	93.90	93.18	92.05	92.20	92.46	92.20	92.53	92.42	92.90
V-3	96.20	93.10	95.20	95.00	93.93	92.00	92.60	93.24	93.00	93.25	93.17	93.50
V-4	96.28	91.89	91.99	93.49	92.93	91.18	91.53	91.93	91.53	91.73	91.96	92.53
V-5	98.55	95.38	95.27	96.60	96.50	94.70	94.85	95.37	95.07	95.30	95.86	96.15
V-6	97.82	93.24	[illegible]	94.82	94.40	93.12	93.47	93.37	92.97	93.32	93.48	94.03
Stream	76.14	73.66	72.94	73.49	73.84	74.04	73.94	74.84	74.44		73.94	
AS-2	95.89											
AS-3	96.69											
AS-4	97.73											
AS-5	97.69											
DPE-1/ SVE-1	94.98	93.44	89.98									
DPE-2	95.56		90.56									
DPE-3	95.56	94.54	90.56									
DPE-4	96.76											
DPE-5	96.58											

NOTES:
1 - Elevation datum assumed
2 - Reference elevation is elevation of top of PVC well casing
Dark Gray - Inaccessible
Light Gray Dry

Project: Former Village Beverage
Location: Colchester, Vermont

Table 2
Site # 87-0068
Sheet 1 of 1

Photoionization Detector (PID) Results in Parts Per Million (ppm)

Data Point	12-22-99	3-1-00	4-17-00	5-17-00	6-28-00	7-24-00	8-21-00	9-27-00	10-10-00	11-22-00	12-20-00
MW-3	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG
MW-4	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG
MW-5	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG
MW-6	201	2,417	26	28	7.0	418	–	BG	BG	117	74
MW-7	103	BG	BG	BG	0.8	BG	BG	BG	BG	BG	BG
MW-8	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG
MW-9	42	550	25	17.4	56	42	BG	BG	BG	6.3	BG
MW-10	297	48	916	40	15.0	8.6	170	120	96	247	180
MW-11	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG
MW-12	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG
MW-14	436	2,590	535	492	486	384	550	430	280	300	BG
MW-15	BG	391	BG	BG	BG	BG	BG	BG	BG	BG	BG
MW-16	63	4,380	720	BG	10.0	8.0	BG	BG	46	BG	BG
MW-17	715	2,814	2,062	238	511	460	598	362	320	285	207
Sump	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG	BG
V-1	BG	17.1	10.2	BG	BG	BG	BG	BG	BG	BG	BG
V-3	245	23	14.0	BG	6.0	2.4	BG	BG	BG	1.7	BG
V-4	1.0	382	240	BG	BG	BG	BG	BG	BG	BG	BG
V-5	2.2	15.7	2.6	26	3.6	0.6	BG	BG	BG	BG	BG
V-6	2.3	99	BG	BG	BG	BG	7.8	4.2	BG	BG	BG

NOTES.
BG - Background
SL - Saturated Lamp
Grey - Inaccessible
Numerical result indicates amount above BG

Project: Former Village Beverage
Location: Colchester, Vermont

Table 3
Site # 87-0068
Sheet 1 of 2

Dissolved Oxygen, Temperature, and Induced Vacuum

Data Point	02/22/00	03/01/00	04/17/00	05/17/00	06/28/00	07/24/00	08/21/00	11/22/00	12/20/00
Temperature (deg. C)									
MW-3	--	--	--	9.3°	--	--	16.4°	35.7°	--
MW-4	--	--	--	10.5°	--	--	16.7°	24.9°	--
MW-5	--	--	--	7.3°	--	--	13.0°	24.9°	--
MW-6	--	--	--	9.4°	--	--	20.2°	13.1°	--
MW-7	--	--	--	8.7°	--	--	19.9°	24.9°	--
MW-8	--	--	--	8.3°	--	--	19.7°	11.6°	--
MW-9	--	--	--	10.3°	--	--	17.3°	35.9°	--
MW-10	--	--	--	8.8°	--	--	14.0°	36.3°	--
MW-11	--	--	--	10.5°	--	--	--	--	--
MW-12	--	--	--	12.5°	--	--	18.4°	24.9°	--
MW-14	--	--	--	12.4°	--	--	24.7°	11.4°	--
MW-15	--	--	--	7.8°	--	--	16.2°	37.1°	--
MW-16	--	--	--	14.5°	--	--	25.0°	13.8°	--
MW-17	--	--	--	13.2°	--	--	22.9°	13.4°	--
Sump	--	--	--	9.8°	--	--	16.3°	35.7°	--
V-1	--	--	--	8.6°	--	--	18.1°	37.1°	--
V-3	--	--	--	11.9°	--	--	22.3°	13.3°	--
V-4	--	--	--	9.7°	--	--	18.2°	13.8°	--
V-5	--	--	--	15.5°	--	--	24.1°	11.2°	--
V-6	--	--	--	18.1°	--	--	22.7°	12.3°	--
Dissolved Oxygen (mg/l)									
MW-3	--	2.19	--	0.31	--	--	0.31	2.32	--
MW-4	--	2.22	--	1.96	--	--	0.24	0.74	--
MW-5	--	0.40	--	0.40	--	--	0.29	0.67	--
MW-6	--	1.95	--	0.34	--	--	0.22	0.76	--
MW-7	--	0.36	--	0.34	--	--	0.21	1.66	--
MW-8	--	5.91	--	0.27	--	--	2.70	2.46	--
MW-9	--	0.61	--	0.35	--	--	0.33	0.30	--
MW-10	--	0.44	--	0.31	--	--	0.20	0.39	--
MW-11	--	4.01	--	0.58	--	--	--	--	--
MW-12	--	2.17	--	0.35	--	--	5.54	1.38	--
MW-14	--	2.00	--	0.31	--	--	0.17	1.10	--
MW-15	--	0.47	--	0.31	--	--	3.72	0.45	--
MW-16	--	2.18	--	0.40	--	--	0.47	0.86	--
MW-17	--	--	--	0.39	--	--	0.23	0.91	--
Sump	--	0.44	--	0.28	--	--	0.24	0.39	--
V-1	--	2.34	--	0.36	--	--	0.25	0.36	--
V-3	--	3.67	--	0.28	--	--	0.15	1.07	--
V-4	--	4.76	--	1.62	--	--	0.16	0.56	--
V-5	--	--	--	0.24	--	--	0.18	1.08	--
V-6	--	--	--	0.27	--	--	0.22	1.40	--

Project: Former Village Beverage
Location: Colchester, Vermont

Table 3
Site # 87-0068
Sheet 2 of 2

Dissolved Oxygen, Temperature, and Induced Vacuum

Data Point	02/22/00	03/01/00	04/17/00	05/17/00	06/28/00	07/24/00	08/21/00	11/22/00	12/20/00
[illegible]									
MW-3	0.00	--	--		--	--	--	--	--
MW-4	0.00	--	--	0.00	--	--	--	--	--
MW-5	0.00	--	--	0.00	--	--	--	--	--
MW-6	0.00	0.00	0.00	0.00	0.00	0.00	--	--	0.00
MW-7	--	0.30	0.00	0.00	0.00	0.00	--	--	--
MW-8	0.00	--	--	0.00	0.00	0.00	--	--	--
MW-9	0.00	--	--	0.00	--	--	--	--	--
MW-10	0.00	--	--	0.00	--	--	--	--	--
MW-11	0.00	--	--	0.00	--	--	--	--	--
MW-12	0.00	--	--	0.00	--	--	--	--	--
MW-14	0.00	--	--	0.00	0.00	0.00	--	--	--
MW-15	0.00	--	--	0.00	0.00	0.00	--	--	--
MW-16	0.00	--	--	0.00	0.00	0.00	--	--	--
MW-17	1.10	0.00	0.00	0.00	--	0.00	--	--	0.00
V-1	0.00	0.00	0.00	0.00	0.02	0.00	--	--	0.00
V-3	--	--	0.00	0.00	0.52	0.50	--	--	0.05
V-4	0.00	0.00	0.00	0.00	0.00	0.00	--	--	0.00
V-5	0.98	0.00	0.00	0.00	0.01	0.00	--	--	0.00
V-6	0.05	0.00	0.00	0.00	0.04	0.02	--	--	0.00

Project: Former Village Beverage
Location: Colchester, Vermont

Table 4
Site # 87-0068
Sheet 1 of 1

Water Quality Results
In Parts Per Billion (ppb)

Data Point	Compound	*GQES	5-14-99	8-12-99	11-18-99	3-1-00	5-17-00	8-21-00	11-22-00
MW-3	MTBE	40	***387***	***1,030***	***191***	<10	13.5	***1,610***	***268***
	BTEX		2,912	6,751	291	<4	243.1	10,924	86
MW-4	MTBE	40	***6,700***	***8,650***	***3,140***	***89.6***	***583***	***2,040***	***864***
	BTEX		15,060	7,064	2,192	23	446	1,722	507
MW-5	MTBE	40	***1,900***	***1,730***	***1,330***	<1,000	***696***	***1,520***	***1,420***
	BTEX		21,260	22,440	16,620	9,461	12,510	17,440	16,350
MW-6	MTBE	40	***38,400***	***32,100***	***45,600***	<1,000	***4,270***	***17,400***	***15,900***
	BTEX		47,600	26,702	42,232	24,990	19,213	36,990	27,000
MW-7	MTBE	40	***6,210***	***5,930***	<5,000	<1,000	<5,000	***1,710***	<2000
	BTEX		79,840	65,760	75,450	13,654	41,890	62,460	25,336
MW-8	MTBE	40	<10	<10	<10	<10	<10	2.3	<10
	BTEX		<4	<4	<4	16.4	<4	<5	<4
MW-9	MTBE	40	***1,200***	***463***	***2,460***	***2,900***	***1,480***	***1,160***	***1,500***
	BTEX		10,747	3,871	6,349	19,950	6,747	4,300	5,723
MW-10	MTBE	40	***14,000***	***3,240***	***20,300***	***17,100***	***1,800***	***4,280***	***4,060***
	BTEX		28,070	22,030	17,951	21,840	3,844	10,937	22,382
MW-11	MTBE	40	***227***			11.3	***52.3***		
	BTEX		<40			<4	<4		
MW-12	MTBE	40	***428***	***4,900***	34.4	<10	***44.4***	***128***	***131***
	BTEX		<20	3,593	<4	<4	<4	<10	<4
MW-14	MTBE	40	***13,200***		***1,330***	***18,200***	***12,600***	***12,000***	***1,610***
	BTEX		11,674		16,620	38,400	19,652	20,678	7,294
MW-15	MTBE	40	<10	<10	10.3	11.7	<10	8.7	<10
	BTEX		<4	7.4	5.5	<4	<4	7.4	7.8
MW-16	MTBE	40	***236***	***292***	***296***	<2,000	<200	***212***	***241***
	BTEX		1,428	1,873	2,132	23,830	2,385	1,390	1,814
MW-17	MTBE	40	***61,400***	***61,700***	***96,700***			***60,300***	***102,000***
	BTEX		89,380	68,880	80,180			40,110	90,130
S-1A	MTBE	40	<10	<10	<10	<10	<10	<2	<10
	BTEX		<4	<4	<4	<4	<4	<5	<4
S-1	MTBE	40	<10	<10	<10	<10	<10	<2	<10
	BTEX		<4	<4	<4	<4	<4	<5	<4
S-2 Composite	MTBE	40	<10	<10	<10	<10	<10	<2	<10
	BTEX		<4	<4	<4	<4	<4	<5	<4
S-3 Composite	MTBE	40	<10	<10	<10	<10	<10	<2	<10
	BTEX		<4	<4	<4	<4	<4	<5	<4
S-4 Composite	MTBE	40	<10	<10	<10	<10	<10	<2	<10
	BTEX		<4	<4	<4	<4	<4	<5	<4
Culvert by 1A	MTBE	40		<10	<10	<10	<10	<2	<10
	BTEX			<4	<4	<4	<4	<5	<4
Culvert Eff.	MTBE	40		<10	<10	<10	<10	<2	<10
	BTEX			<4	<4	<4	<4	<5	<4
Sump Eff.	MTBE	40		***1,110***	***3,290***	***3,280***	***2,110***	***1,540***	***1,450***
	BTEX			15,950	18,110	22,280	18,940	15,391	13,995
Sump Eff. Composite	MTBE	40		<1,000	***3,080***	***2,770***	***1,930***	***1,520***	***1,430***
	BTEX			13,182	18,330	24,200	20,300	14,654	14,809
Sump	MTBE	40		***1,450***	***3,060***	***1,900***	***302***	***1,350***	***1,980***
	BTEX			7,304	12,896	5,298	664	3,389	6,094
Wetland Drain	MTBE	40		<10	<10	<10	<10	<2	<10
	BTEX			<4	<4	<4	<4	<5	<4
Storm Sewer Outflow	MTBE	40		***48.5***	***154***	***433***	***68.3***	39.1	***74.1***
	BTEX			19.8	1,446	3,625	470	34	990
Seepage into Wetland	MTBE	40		<10	<10	<10	<10	<2	<10
	BTEX			<4	<4	<4	<4	<5	<4
Storm Sewer Outflow #2	MTBE	40		***44.7***	***170***	***368***	***68.6***	35.7	***70.9***
	BTEX			18	1,377	3,461	432	33	984
V-1	MTBE	40	***6,000***	***5,810***		***542***	***1,160***	***718***	***808***
	BTEX		15,160	14,250		65	3,771	2,491	1,555
V-3	MTBE	40	***12,900***	***16,500***	***18,700***	<10,000	***2,460***	***10,400***	***5,950***
	BTEX		69,210	44,500	39,760	93,450	18,927	28,020	23,642

Notes:
BTEX = Sum of benzene, toluene, ethylbenzene, and xylenes
< - Compound not detected at method detection limit
Shaded Cell = Not Sampled
bold/italics = Concentration exceeds GQES

Project: Former Village Beverage
Location: Colchester, Vermont

Table 4A
Site # 87-0068
Sheet 1 of 1

Plume Length vs. Time

Date[1]	Length of 10,000 ug/l BTEX Contour (feet)[2,3]
2/25/1997	356
8/27/1997	347
2/24/1998	364
8/5/1998	338
5/14/1999	332
8/12/1999	283
11/18/1999	302
3/1/2000	360
5/17/2000	210
8/21/2000	320
11/22/2000	355

NOTES:
1 - Includes semi-annual data only prior to remediation
2 - ug/l = micrograms per liter
3 - BTEX = sum of benzene, toluene, ethylbenzene, and xylenes

System Data for DPE Wells

				DPE-1					
Date	Total Flow From Wells (scfm)	Total Flow w/ Dilution Air (scfm)	Dilution Air Flow (scfm)	Vacuum ("Hg)	Drop Tube Depth (feet)	Differential Pressure ("H_2O)	Air Flow (scfm)	Weighted Air Flow (scfm)	PID (ppm)
3/9/2000	160.0	176.0	16.0	9.5	5.0	WATER	0.0	0.0	NR
3/15/2000	168.0	182.0	14.0	3.8	5.0	0.2	144.0	55.0	NR
3/27/2000	210.0	225.0	15.0	2.3	5.0	0.1	121.0	101.0	NR
4/10/2000	210.0	210.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0
4/17/2000	235.0	235.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0
5/2/2000	210.0	250.0	40.0	5.5	5.0	0.3	183.1	210.0	38.0
5/17/2000	200.0	230.0	30.0	9.0	5.0	WATER	0.0	0.0	NR
5/26/2000	210.0	210.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0
6/5/2000	245.0	245.0	0.0	5.0	5.0	WATER	0.0	0.0	NR
6/12/2000	210.0	238.0	28.0	3.0	5.0	0.0	69.8	59.8	59.0
6/23/2000	230.0	230.0	0.0	5.0	5.0	0.0	69.8	51.7	42.0
7/5/2000	210.0	220.0	10.0	8.0	5.0	0.3	178.0	97.2	NR
7/24/2000	0.0	220.0	220.0	OFF					
8/8/2000	50.0	250.0	200.0	OFF					
8/21/2000	140.0	250.0	110.0	OFF					
9/6/2000	140.0	210.0	70.0	OFF					
9/27/2000	180.0	270.0	90.0	6.0	5.0	WATER	0.0	0.0	NR
10/10/2000	0.0	250.0	250.0	7.0	5.0	WATER	0.0	0.0	NR
10/23/2000	0.0	0.0	0.0	5.0	5.0	0.4	220.8	0.0	NR
11/10/2000	175.0	250.0	75.0	6.0	5.0	0.2	135.2	47.5	NR
11/22/2000	0.0	270.0	270.0	4.0		WATER	0.0	0.0	NR
12/6/2000	0.0	250.0	250.0	5.0		WATER	0.0	0.0	NR
12/20/2000	0.0	260.0	260.0	5.0		WATER	0.0	0.0	BG

Notes:
1. "Weighted Average Air Flow (scfm)" calculated as percentage of total flow from wells.
2. NR = No reading
3. N/A = Not applicable. No total flow gauges on original system
4. WATER = No reading, water in air stream

System Data for DPE Wells

	DPE-2						DPE-3					
Date	Vacuum ("Hg)	Drop Tube Depth (feet)	Differential Pressure ("H_2O)	Air Flow (scfm)	Weighted Air Flow (scfm)	PID (ppm)	Vacuum ("Hg)	Drop Tube Depth (feet)	Differential Pressure ("H_2O)	Air Flow (scfm)	Weighted Air Flow (scfm)	PID (ppm)
3/9/2000	9.0	5.0	WATER	0.0	0.0	NR	9.5	5.0	WATER	0.0	NR	NR
3/15/2000	8.4	5.0	0.2	156.2	59.7	NR	9.8	5.0	0.2	139.7	53.4	NR
3/27/2000	0.0	5.0	0.0	0.0	0.0	0.0	7.0	5.0	0.1	130.7	109.0	NR
4/10/2000	0.0	5.0	0.0	0.0	0.0	0.0	7.8	5.0	WATER	0.0	NR	NR
4/17/2000	0.0	5.0	0.0	0.0	0.0	0.0	7.5	5.0	WATER	0.0	NR	NR
5/2/2000	6.0	5.0	WATER	0.0	0.0	26.0	5.0	5.0	WATER	0.0	NR	47.0
5/17/2000	8.3	5.0	WATER	0.0	0.0	NR	7.5	5.0	WATER	0.0	NR	NR
5/26/2000	8.0	5.0	WATER	0.0	0.0	7.8	9.0	5.0	WATER	0.0	NR	18.4
6/5/2000	4.0	5.0	WATER	0.0	0.0	NR	7.8	5.0	WATER	0.0	NR	NR
6/12/2000	1.0	5.0	0.0	49.4	42.3	200.0	4.5	5.0	0.1	125.9	107.9	30.0
6/23/2000	OFF						OFF					
7/5/2000	OFF						OFF					
7/24/2000	9.0	5.0	WATER	0.0	0.0	2.8	7.5	5.0	WATER	0.0	0.0	4.4
8/8/2000	5.0	5.0	WATER	0.0	0.0	10.6	5.0	5.0	0.2	156.2	50.0	15.0
8/21/2000	3.0	5.0	0.2	156.2	140.0	NR	5.5	5.0	WATER	0.0	0.0	NR
9/6/2000	8.0	5.0	0.2	135.2	140.0	44.0	10.5	5.0	WATER	0.0	0.0	28.0
9/27/2000	OFF						3.0	5.0	0.4	206.6	102.5	NR
10/10/2000	OFF						4.5	5.0	WATER	0.0	0.0	NR
10/23/2000	OFF						3.5	5.0	WATER	0.0	0.0	NR
11/10/2000	2.0	5.0	0.4	206.6	72.6	NR	OFF					
11/22/2000	0.5		0.5	246.9	0.0	NR	OFF					
12/6/2000	OFF						3.5		0.3	197.5	0.0	NR
12/20/2000	OFF						0.5		0.3	174.6	0.0	7.4

Notes:
1. "Weighted Average Air Flow (scfm)" calculated as percentage of total flow from wells.
2. NR = No reading
3. N/A = Not applicable. No total flow gauges on original system
4. WATER = No reading, water in air stream

System Data for DPE Wells

	DPE-4						DPE-5					
Date	Vacuum ("Hg)	Drop Tube Depth (feet)	Differential Pressure ("H_2O)	Air Flow (scfm)	Weighted Air Flow (scfm)	PID (ppm)	Vacuum ("Hg)	Drop Tube Depth (feet)	Differential Pressure ("H_2O)	Air Flow (scfm)	Weighted Air Flow (scfm)	PID (ppm)
3/9/2000	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0
3/15/2000	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0
3/27/2000	7.5	5.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0
4/10/2000	6.8	5.0	WATER	0.0	0.0	NR	10.5	5.0	WATER	0.0	0.0	NR
4/17/2000	5.0	5.0	0.0	60.5	63.4	NR	10.0	5.0	0.2	163.8	171.6	NR
5/2/2000	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0
5/17/2000	9.5	5.0	WATER	0.0	0.0	NR	0.0	5.0	0.0	0.0	0.0	0.0
5/26/2000	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0
6/5/2000	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0
6/12/2000	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0
6/23/2000	7.0	5.0	0.1	110.4	105.3	75.0	8.5	5.0	0.1	130.7	96.7	87.0
7/5/2000	9.0	5.0	0.1	85.5	87.0	NR	12.0	5.0	0.1	121.0	66.1	NR
7/24/2000	10.0	5.0	0.2	156.2	0.0	1.6	OFF					
8/8/2000	5.0	5.0	WATER	0.0	0.0	12.2	OFF					
8/21/2000	7.5	5.0	WATER	0.0	0.0	NR	OFF					
9/6/2000	12.0	5.0	WATER	0.0	0.0	52.0	OFF					
9/27/2000	4.5	5.0	0.2	156.2	77.5	NR	OFF					
10/10/2000	OFF						4.5	5.0	0.3	174.6	0.0	NR
10/23/2000	OFF						5.0	5.0	0.1	98.8	0.0	NR
11/10/2000	6.0	5.0	0.2	156.2	75.3	NR	OFF					
11/22/2000	4.5		0.2	156.2	0.0	NR	OFF					
12/6/2000	5.0		0.1	98.8	0.0	NR	OFF					
12/20/2000	4.5		WATER	0.0	0.0	6.8	OFF					

Notes:
1. "Weighted Average Air Flow (scfm)" calculated as percentage of total flow from wells.
2. NR = No reading
3. N/A = Not applicable. No total flow gauges on original system
4. WATER = No reading, water in air stream

DPE System Data
and VOC Removal Rates

Time (min)	Date[1]	PID Conc. (ppm)	Gauge Pressure ("H_2O)	Absolute Pressure (atm)	Temperature (deg F)	Absolute Temperature (deg K)	Air Velocity (fpm or "H_2O)[3]	Air Flow (scfm)	Air Flow (acfm)	VOC Removal Rate[2] by PID (lb/day)	VOC Removal Rate by Lab Analysis (lb/day)
0	3/18/1999	36	0.5	1.00	81°	300°	1,900	149	163	2.4	1.5
112	3/18/1999	System shutdown due to moisture, transfer pump failure, and silt problems.									
13,052	3/25/1999	41	0.5	1.00	81°	300°	1,900	149	163	2.7	1.7
14,132	3/26/1999	System shutdown due to water evaporation from air/water separator tank.									
14,282	3/26/1999	52	0.5	1.00	90°	306°	1,050	82	92	1.9	1.2
18,572	3/29/1999	12.2	0.5	1.00	91°	306°	2,000	156	175	0.9	0.6
18,932	3/29/1999	System shutdown due to transfer pump seal failure									
30,437	4/6/1999	432	0.5	1.00	97°	309°	1,100	86	97	17.0	10.9
31,877	4/7/1999	System shutdown due to iron fouling.									
33,272	4/8/1999	484	0.5	1.00	99°	310°	850	66	75.5	14.7	9.5
33,407	4/8/1999	System lost vacuum due to iron fouling.									
34,562	4/9/1999	1955	0.5	1.00	99°	310°	850	66	75.5	59.6	38.2
38,072	4/11/1999	System lost vacuum due to iron fouling of recirculation line.									
41,732	4/14/1999	231	0.5	1.00	104°	313°	950	74	85.1	7.9	5.1
45,452	4/17/1999	System shut down due to water evaporation from air/water separator tank.									
49,172	4/19/1999	69.4	1.5	1.00	115°	319°	900	70	81.9	2.3	1.5
60,452	4/27/1999	System shut down due to makeup water being shut off. Pump and piping required rebuilding.									
134,077	6/17/1999	1,619	0.5	1.00	110°	316°	650	51	58.8	38.5	24.7
139,697	6/21/1999	302	0.5	1.00	120°	322°	1,050	82	96.8	11.8	7.6
151,127	6/29/1999	371	0.5	1.00	173°	351°	800	63	80.4	12.0	7.7
162,682	7/7/1999	75.2	0.5	1.00	118°	321°	300	23	27.6	0.8	0.5
172,712	7/14/1999	96	0.5	1.00	105°	314°	800	63	71.8	2.8	1.8
177,122	7/17/1999	System shut down due to power outage.									
181,532	7/20/1999	115	0.04	1.00	104°	313°	900	70	80.7	3.7	2.4
185,852	7/23/1999	System shut down due to high water in air/water separator tank. Liquid piping to carbon required re-plumbing.									
190,172	7/26/1999	333	0.04	1.00	104°	313°	850	66	76.2	10.2	6.6
194,372	7/29/1999	System shut down due to power outage.									
201,842	8/3/1999	339	0.09	1.00	96°	309°	250	20	22.1	3.0	1.9
202,022	8/3/1999	System shut down due to high water in air/water separator tank.									
205,832	8/6/1999	309	0.09	1.00	117°	320°	950	74	87.2	10.9	7.0
214,502	8/12/1999	206	0.09	1.00	150°	339°	300	23	29.1	2.4	1.6
221,432	8/17/1999	293	0.09	1.00	112°	318°	600	47	54.6	6.5	4.1
231,737	8/24/1999	138	0.10	1.00	160°	344°	100	7.8	9.9	0.5	0.4
236,432	8/27/1999	System shut down due to A300 liquid ring pump failure. Replaced A300 with BISCO DPE system.									

Notes:
1. Sparging initiated on 4/8/99. No Sparging from 2/3/00 - 3/9/00.
2. Vapor phase VOC removal ONLY. Dissolved phase included on Table 8.
3. Air velocity measured in fpm until 8/27/00, then measured in "H2O.

DPE System Data
and VOC Removal Rates

Time (min)	Date[1]	PID Conc. (ppm)	Gauge Pressure ("H_2O)	Absolute Pressure (atm)	Temperature (deg F)	Absolute Temperature (deg K)	Air Velocity (fpm or "H_2O)[3]	Air Flow (scfm)	Air Flow (acfm)	VOC Removal Rate[2] by PID (lb/day)	VOC Removal Rate by Lab Analysis (lb/day)
466,472	2/3/2000	383	2.2	1.01	64°	291°	0.30	172	182	28.1	18.0
467,132	2/3/2000	System shut down due to VAC 50 malfunction.									
494,132	2/22/2000	257	2.2	1.01	70°	294°	0.31	174	187	19.4	12.4
495,572	2/23/2000	System shut down due to high temperature at VAC 50.									
496,652	2/24/2000	15.2	2.3	1.01	70°	294°	0.30	172	184	1.1	0.7
505,472	3/1/2000	System shut down due to malfunctioning transfer pump level switch assembly.									
514,242	3/7/2000	14	2.8	1.01	51°	283°	0.39	196	202	1.1	0.7
516,872	3/9/2000	16.0	2.8	1.01	51°	283°	0.32	176	181	1.2	0.8
525,692	3/15/2000	36.7	2.1	1.01	86°	303°	0.42	202	223	3.3	2.1
526,092	3/17/2000	System shut down due to frozen transfer pump discharge line (heat tape GFCI tripped during storm).									
543,047	3/27/2000	45.8	2.0	1.00	70°	294°	0.47	215	230	4.3	2.7
546,212	3/29/2000	System shut down due to power outage.									
563,267	4/10/2000	37.9	2.2	1.01	88°	303°	0.52	226	250	3.8	2.5
572,972	4/17/2000	8.2	2.1	1.01	83°	301°	0.59	240	263	0.9	0.6
581,732	4/23/2000	System shut down due to high water in air/water separator.									
594,572	5/2/2000	106	2.5	1.01	75°	297°	0.45	210	227	9.7	6.2
599,222	5/5/2000	85	2.5	1.01	75°	297°	0.45	210	227	7.8	5.0
604,682	5/9/2000	System shut down due to power outage.									
608,942	5/12/2000	85	2.5	1.01	75°	297°	0.45	210	227	7.8	5.0
616,172	5/17/2000	7.5	2	1.00	59°	288°	0.33	179	188	0.6	0.4
625,217	5/23/2000	System shut down due to flame failure at Vac50.									
629,132	5/26/2000	19.6	2	1.00	62°	290°	0.14	117	124	1.0	0.6
643,712	6/5/2000	292	2.25	1.01	67°	292°	0.33	179	190	22.4	14.4
646,172	6/7/2000	System shut down due to flame failure at Vac50.									
653,782	6/12/2000	29.8	3.1	1.01	99°	310°	0.33	180	203	2.4	1.6
669,802	6/23/2000	210	2.4	1.01	85°	303°	0.20	140	154	13.1	8.4
688,942	7/5/2000	29.6	2.5	1.01	76°	298°	0	125	136	1.6	1.0
714,092	7/24/2000	1.7	2	1.00	84°	302°	0.20	140	154	0.1	0.1
735,692	8/8/2000	28	2	1.00	95°	308°	0.40	198	222	2.5	1.6
754,412	8/21/2000	7	2	1.00	80°	300°	0.30	172	187	0.5	0.3
777,602	9/6/2000	111	2.5	1.01	85°	303°	0.20	140	154	6.9	4.4
807,692	9/27/2000	21	2	1.00	84°	302°	0.30	172	189	1.6	1.0
826,412	10/10/2000	NR	2	1.00	68°	293°	0.35	185	198	0.0	0.0
845,132	10/23/2000	37	2	1.00	75°	297°	0.25	157	170	2.5	1.6
871,052	11/10/2000	25	2	1.00	75°	297°	0.25	157	170	1.7	1.1
888,332	11/22/2000	8	2	1.00	55°	286°	0.35	185	193	0.6	0.4
908,492	12/6/2000	--	2.5	1.01	52°	284°	0.30	172	178	0.0	0.0
928,652	12/20/2000	5	3	1.01	52°	284°	0.20	140	145	0.3	0.2

Notes:
1. Sparging initiated on 4/8/99. No Sparging from 2/3/00 - 3/9/00.
2. Vapor phase VOC removal ONLY. Dissolved phase included on Table 8.
3. Air velocity measured in fpm until 6/27/00, then measured in "H2O.

Project: Former Village Beverage
Location: Colchester, Vermont

Propane Usage Data

Event	Date	Gallons Delivered	Propane Tank % Full	Propane Tank Gallons	Vac50 Hour Meter (cumulative)	Hours Since Last Reading	Propane Used (interval - gals)	Propane Use (gph)	Propane Used (Cumulative - gals)	Propane Use (BTU/hr)
System Started	3/7/1999		85%	680	2.6	0.0	0.0	0.0	0.0	0.0
	3/16/1999		77%	616	13	10	64	6.1	64	551,999
	3/25/1999		70%	560			56		120	
	3/26/1999		67%	536			24		144	
Tank Filled	3/29/1999		99%	792					144	
	4/6/1999		65%	520	198	183	272	1.9	416	172,964
Sparging Initiated/ Startup Ends	4/8/1999		53%	424			96		512	
Routine Operation Begins	4/9/1999		53%	424			0		512	
	4/12/1999		47%	376			48		560	
	4/14/1999		32%	256	385	169	120	1.6	680	140,842
Tank Filled	4/15/1999		99%	792					680	
	4/26/1999		70%	560			232		912	
Tank Filled	5/25/1999		99%	792					912	
	6/17/1999		86%	688	628	263	104	1.3	1,016	114,964
	6/21/1999		65%	520	721	93	168	1.8	1,184	161,763
	6/29/1999		30%	240	912	191	280	1.5	1,464	132,263
	7/7/1999		8%	64	1,105	193	176	0.9	1,640	82,141
Tank Filled	7/12/1999	732.4	100%	800					1,640	
	7/14/1999		75%	600	1,261	156	200	1.3	1,840	115,486
	7/20/1999		60%	480	1,410	149	120	0.8	1,960	72,459
Tank Filled	7/26/1999	417.7	100%	800	1,555	145	62	0.4	2,022	38,616
	8/3/1999		80%	640	1,645	90	160	1.8	2,182	160,142
	8/8/1999		75%	600	1,693	48	40	0.8	2,222	74,411
Tank Filled	8/12/1999		99%	792					2,222	
	8/12/1999		80%	640	1,832	138	152	1.1	2,374	98,815
Tank Filled	8/16/2000	343	100%	800					2,374	
	8/17/1999		99%	792					2,374	
	8/17/1999		85%	680	1,953	122	455	3.7	2,829	338,262
	8/24/1999		70%	560	2,121	168	120	0.7	2,949	64,339
Tank Filled	9/7/2000	267.6	100%	800					2,949	
Tank Filled	2/1/2000		99%	792					2,949	
New DPE on-line	2/3/2000		77%	616	2,261	2,261	444	0.2	3,393	17,500
	2/22/2000		73%	584	2,293	11	32	2.8	3,425	252,410
	3/1/2000		8%	64	2,461	340	520	1.5	3,945	137,594
Tank Filled	3/2/2000	782.2	100%	800					3,945	
	3/7/2000		82%	656	2,465	4	144	41.1	4,089	3,702,857
	3/9/2000		63%	504	2,509	44	152	3.5	4,241	311,817
	3/13/2000		32%	256					4,241	
Tank Filled	3/13/2000	684	100%	800					4,241	
	3/15/2000		70%	560	2,654	145	240	1.7	4,481	148,586
Tank Filled	3/20/2000	290.5	100%	800					4,481	
	3/22/2000		85%	680	2,684	29	120	4.1	4,601	368,098
	3/27/2000		85%	680	2,688	4	0	0.0	4,601	0
Tank Filled	3/30/2000	259	100%	800					4,601	
Tank Filled	4/7/2000	23.6	100%	800					4,601	
	4/10/2000		87%	696	2,740	52	363	7.0	4,964	626,222
	4/17/2000		20%	160	2,902	162	536	3.3	5,500	297,521

Notes:
1 "Propane Use (BTU/hr)" calculated assuming 90,000 BTUs per gallon of propane.

Table 7
Site # 87-0068
Sheet 1 of 2

Project: Former Village Beverage
Location: Colchester, Vermont

Propane Usage Data

Event	Date	Gallons Delivered	Propane Tank % Full	Propane Tank Gallons	Vac50 Hour Meter (cumulative)	Hours Since Last Reading	Propane Used (Interval - gals)	Propane Use (gph)	Propane Used (Cumulative - gals)	Propane Use (BTU/hr)
Tank Filled	04/18/2000	721.1	100%	800					5,500	
Tank Filled	04/21/2000	361.7	100%	800					5,500	
Tank Filled	05/01/2000	224.8	100%	800					5,500	
	05/02/2000		80%	640	3,053	151	1,243	8.2	6,743	738,882
Tank Filled	05/09/2000	398.8	100%	800					6,743	
	05/12/2000		85%	680	3,135	81	120	1.5	6,863	132,597
Tank Filled	05/15/2000	327.8	100%	800					6,863	
	05/17/2000		75%	600	3,253	118	200	1.7	7,063	152,181
	05/26/2000		55%	440	3,282	29	160	5.6	7,223	503,145
Tank Filled	05/30/2000	355.4	100%	800					7,223	
Tank Filled	06/01/2000	723.9	100%	800					7,223	
	06/05/2000		30%	240	3,526	244	915	3.8	8,138	337,883
Tank Filled	06/09/2000	691	100%	800					8,138	
	06/12/2000		82%	656	3,565	39	144	3.7	8,282	330,781
Tank Filled	06/15/2000	388		0					8,282	
Tank Filled	06/23/2000	791.8	100%	800					8,282	
Tank Filled	06/29/2000	648.8	100%	800					8,282	
	07/05/2000		10%	80	4,077	513	1,900	3.7	10,182	333,506
Tank Filled	07/06/2000	795	100%	800					10,182	
Tank Filled	07/10/2000	389.7	100%	800					10,182	
Tank Filled	07/18/2000	713.2	100%	800					10,182	
	07/24/2000		85%	680			1,305		11,487	
Tank Filled	07/28/2000	430.5	100%	800					11,487	
Tank Filled	08/03/2000	360	100%	800					11,487	
	08/08/2000		30%	240	4,090		991		12,477	
Tank Filled	08/15/2000	261.5	100%	800	Broken Counter				12,477	
Tank Filled	08/17/2000	485.9	100%	800	Broken Counter				12,477	
Tank Filled	08/21/2000	460.7	100%	800	Broken Counter				12,477	
Tank Filled	08/24/2000	236.9	100%	800	Broken Counter				12,477	
Tank Filled	08/28/2000	31.8	100%	800	Broken Counter				12,477	
Tank Filled	09/07/2000	106.5	100%	800	Broken Counter				12,477	
Tank Filled	09/11/2000	230.1	100%	800	Broken Counter				12,477	
Tank Filled	09/14/2000	120.4	100%	800	Broken Counter		1,813		14,291	
	09/27/2000		85%	680	Broken Counter	--	120	--	14,411	--
Tank Filled	10/05/2000	73.9	100%	800	Broken Counter				14,411	
	10/10/2000		85%	680	Broken Counter	--	120	--	14,531	--
Tank Filled	10/16/2000	241.3	100%	800	Broken Counter				14,531	
	10/23/2000		85%	680	Broken Counter	--	120	--	14,651	--
Tank Filled	10/25/2000	407.2	100%	800	Broken Counter				14,651	
Tank Filled	11/03/2000	689.8	100%	800	Broken Counter				14,651	
Tank Filled	11/06/2000	374.1	100%	800	Broken Counter				14,651	
Tank Filled	11/10/2000	412.3	100%	800	Broken Counter	--	1,883	--	16,534	--
Tank Filled	11/17/2000	482.6	100%	800	Broken Counter				16,534	
Tank Filled	11/22/2000	317	100%	800	Broken Counter	--	800	--	17,334	--
Tank Filled	11/24/2000	617	100%	800	Broken Counter				17,334	
	12/08/2000		85%	680	Broken Counter	--	120	--	17,454	--
Tank Filled	12/18/2000	472	100%	800	Broken Counter				17,454	
	12/20/2000		70%	560	Broken Counter		240		17,694	

Notes:
1 "Propane Use (BTU/hr)" calculated assuming 90,000 BTUs per gallon of propane.

Table 7
Site # 87-0068
Sheet 2 of 2

Project: Former Village Beverage
Location: Colchester, Vermont

Ground Water Treatment System Flow Rates and Dissolved Gasoline Removal Rates

		Discharge Meter						
Event	Date	Cumulative Flow Meter Reading (gals)	Interval # of days	Cumulative # of days	Interval Pumped (gals)	Flow (gpd)	Flow (gpm)	Cumulative Pounds of Dissolved Gasoline Treated
System shutdown for repairs	08/27/99	39,423	3	164	730	243	0.17	1.912
	02/03/00	39,444	0.5	164	21	42	0.03	1.912
System shutdown for repairs	02/04/00	39,444	1	165	0.1	0.1	0.0001	1.912
	02/22/00	39,444	0	165	0.0	0.0	0.00	2.102
	02/24/00	39,582	2	167	138	69	0.05	2.102
	03/01/00	51,246	6	173	11,664	1,944	1.35	2.102
	03/07/00	51,612	6	179	366	61	0.04	3.120
	03/09/00	52,377	2	181	765	382	0.27	3.120
	03/15/00	60,134	6	187	7,757	1,293	0.90	3.120
	03/22/00	61,072	7	194	938	134	0.09	3.120
	03/27/00	61,261	5	199	189	38	0.03	3.655
	04/10/00	62,623	14	213	1,362	97	0.07	3.800
	04/17/00	66,127	7	220	3,504	501	0.35	3.815
	05/02/00	68,411	15	235	2,284	152	0.11	3.904
	05/12/00	69,122	10	245	711	71	0.05	3.904
	05/25/00	69,622	13	258	500	38	0.03	3.945
	06/05/00	71,704	11	269	2,082	189	0.13	4.065
	06/12/00	72,423	7	276	719	103	0.07	4.065
	06/23/00	73,566	18	294	1,143	63	0.04	4.065
	07/05/00	74,289	23	317	723	31	0.02	4.096
	07/24/00	75,439	31	348	1,150	37	0.03	4.114
	08/08/00	76,338	34	382	899	26	0.02	4.140
	08/21/00	76,708	28	410	370	13	0.01	4.199
	09/06/00	77,165	29	439	457	16	0.01	4.352
	09/27/00	78,140	21	460	975	46	0.03	4.493
	10/10/00	78,319	13	473	179	14	0.01	4.570
	10/23/00	78,471	13	486	152	12	0.01	4.592
	11/10/00	78,884	18	504	413	23	0.02	4.654
	11/22/00	79,869	12	516	985	82	0.06	4.688
	12/06/00	80,853	26	530	1,969	76	0.05	4.903
	12/20/00	80,866	14	544	13	1	0.00	4.923

Project: Former Village Beverage
Location: Colchester, Vermont

Ground Water Treatment System Sampling Results
in Parts Per Billion (ppb)

Data Point	Compound	7-5-00	7-24-00	8-8-00	8-21-00	9-6-00	9-27-00	10-10-00	10-23-00	11-10-00	11-22-00	12-6-00	12-20-00
	Benzene	2.1	1.1	1.4	4	[illegible]	[illegible]	3.9	<1	4.4	<1	2.1	10.3
	Toluene	4.2	1.5	2.7	7.8	26.6	10.5	8.3	1.2	5.7	<1	<1	<5
	Ethylbenzene	1.2	<1	<1	1	1.9	1.2	1.7	3.1	<1	<1	1.4	5
	Xylenes	9.7	3.9	6.3	9.5	18.8	8.9	27.4	4.8	4.9	<1	2.5	5
	1,3,5-Trimethylbenzene	2.1	1.3	1.1	1.6	1.5	1.6	3.6	2.5	<1	<1	<1	<5
	1,2,4-Trimethylbenzene	4.1	2.2	1.1	2.4	[illegible]	2	[illegible]	[illegible]	<1	<1	<1	<5
	Naphthalene	1	1.4	<2	<2	1.2	<1	1.7	3.6	<1	<1	<1	<5
	MTBE	13.7	<10	13.4	32.7	[illegible]	102	29.8	<10	[illegible]	26.5	[illegible]	[illegible]
Influent	BTEX	17.2	7.5	11.4	22.3	66.1	29.1	41.3	10.1	16	4	7	25.3
	TPH 8015 (mg/L)												
	BTEX + MTBE	31	18	25	55	144	131	71	20.1	56.6	30.5	191	470.3
	Benzene	<1	<1	<1	<1	<1	1.3	<1	<1	<1	<1	<1	<1
	Toluene	<1	<1	<1	<1	<1	1.4	<1	1.8	<1	<1	<1	<1
	Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	2.1	<1	<1	<1	<1
	Xylenes	<1	<1	<2	<2	<1	3.9	<1	2	<1	<1	<1	<1
	1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	1.1	<1	<1	<1	<1
	1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	2.4	<1	2.7	<1	<1	<1	<1
	Naphthalene	<1	<1	<2	<2	<1	<1	<1	1.4	<1	<1	<1	<1
	MTBE	<10	<10	<2	<2	<10	21.2	<10	<10	<10	<10	<10	<10
Middle	BTEX	<4	<4	<5	<5	<4	7.6	<4	6.9	<4	<4	<4	<4
	TPH 8015 (mg/L)												
	BTEX + MTBE	<14	<14	<7	<7	<14	28.8	<14	16.9	<14	<14	<14	<14
	Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Xylenes	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1
	1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Naphthalene	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1
	MTBE	<10	<10	<2	<2	<10	<10	<10	<10	<10	<10	<10	<10
Effluent	BTEX	<4	<4	<5	<5	<4	<4	<4	<4	<4	<4	<4	<4
	TPH 8015 (mg/L)												
	BTEX + MTBE	<14	<14	<7	<7	<14	<14	<14	<14	<14	<14	<14	<14

Notes:
*GQES = Ground Water Quality Enforcement Standards
Shaded = Exceedance of GQES
< - Not detected
BTEX = Sum of benzene, toluene, ethylbenzene, and xylenes

Project: Former Village Beverage
Location: Colchester, Vermont

System Data for AS Wells

		AS-2				AS-3			
Date	Heat X. Outlet Temp. (deg. F)	Pressure (psi)	Differential Pressure ("H_2O)	Air Flow (scfm)	Air Flow (acfm)	Pressure (psi)	Differential Pressure ("H_2O)	Air Flow (scfm)	Air Flow (acfm)
7/14/1999	70°	2.4	0.08	25.8	23.9	1.2	0.24	44.7	44.6
7/20/1999	70°	3.4	0.10	28.9	25.3	2.4	0.32	51.6	47.9
7/26/1999	80°	3.4	0.18	38.7	34.5	3.0	0.27	47.4	43.3
8/3/1999	80°	7.2	0.45	61.2	45.1	3.4	0.14	34.2	30.5
8/6/1999	70°	5.8	0.13	32.9	25.4	4.6	0.10	28.9	23.7
8/12/1999	85°	3.2	0.20	40.6	37.2	2.6	0.25	45.7	43.0
8/17/1999	80°	0.0	0.00	0.0	0.0	3.2	0.17	37.6	33.9
8/24/1999	85°	4.0	0.26	46.6	40.6	5.0	0.30	50.0	41.4
3/15/2000	60°	2.2	0.01	9.1	8.4	2.0	0.04	18.3	17.0
3/27/2000	70°	0.0	0.00	0.0	0.0	2.0	Not recorded		
4/10/2000	65°	0.0	0.00	0.0	0.0	3.0	0.19	39.8	35.3
4/17/2000	70°	0.0	0.00	0.0	0.0	3.0	0.02	12.9	11.6
5/2/2000	75°	3.0	0.02	12.9	11.7	2.8	0.08	25.8	23.6
5/17/2000	78°	4.0	0.20	40.8	35.1	3.0	0.06	22.4	20.3
5/26/2000	65°	3.0	0.005	6.5	5.7	2.6	0.005	6.5	5.9
6/5/2000	75°	2.5	0.03	15.8	14.7	2.3	0.005	6.5	6.1
6/12/2000	65°	2.5	0.02	12.9	11.8	2.5	0.02	12.9	11.8
6/23/2000	80°	OFF				OFF			
7/5/2000	80°	OFF				OFF			
7/24/2000	70°	4.0	0.01	9.1	7.7	3.4	0.04	18.3	16.0
8/8/2000	90°	3.2	0.32	51.6	47.4	2.0	0.16	36.5	36.0
8/21/2000	75°	3.0	1.15	97.9	88.5	2.0	0.2	40.8	39.1
9/6/2000	75°	4.4	0.20	40.8	34.2	3.8	0.15	35.4	30.6
9/27/2000	75°	OFF				OFF			
10/10/2000	55°	OFF				4.2	0.32	51.6	42.1
10/23/2000	60°	OFF				2.6	0.1	28.9	25.9
11/10/2000	70°	3.2	0.15	35.4	31.3	OFF			
11/22/2000	50°	3.4	0.15	35.4	29.8	OFF			
12/6/2000	50°	OFF				3.4	0	0.0	0.0
12/20/2000	60°	2.4	0.1	28.9	26.2	3.4	0.15	35.4	30.4

Project: Former Village Beverage
Location: Colchester, Vermont

System Data for AS Wells

		AS-4				AS-5			
Date	Heat X. Outlet Temp. (deg. F)	Pressure (psi)	Differential Pressure ("H_2O)	Air Flow (scfm)	Air Flow (acfm)	Pressure (psi)	Differential Pressure ("H_2O)	Air Flow (scfm)	Air Flow (acfm)
7/14/1999	70°	0.0	0.00	0.0	0.0	2.4	0.09	27.4	25.4
7/20/1999	70°	1.2	0.08	25.8	25.7	0.0	0.00	0.0	0.0
7/26/1999	80°	0.0	0.00	0.0	0.0	3.0	0.22	42.8	39.1
8/3/1999	80°	5.0	0.60	70.7	58.0	0.0	0.00	0.0	0.0
8/6/1999	70°	0.0	0.00	0.0	0.0	0.0	0.00	0.0	0.0
8/12/1999	85°	0.0	0.00	0.0	0.0	0.0	0.00	0.0	0.0
8/17/1999	80°	2.6	0.10	28.9	26.9	0.0	0.00	0.0	0.0
8/24/1999	85°	0.0	0.00	0.0	0.0	0.0	0.00	0.0	0.0
3/15/2000	60°	0.0	0.00	0.0	0.0	0.0	0.00	0.0	0.0
3/27/2000	70°	1.0	Not recorded			0.0	0.00	0.0	0.0
4/10/2000	65°	3.1	0.20	40.8	36.0	1.5	0.31	50.8	49.2
4/17/2000	70°	2.5	0.02	12.9	11.9	2.4	0.25	45.7	42.3
5/2/2000	75°	0.0	0.00	0.0	0.0	0.0	0.00	0.0	0.0
5/17/2000	78°	2.0	0.005	6.5	6.2	0.0	0.00	0.0	0.0
5/26/2000	65°	0.0	0.00	0.0	0.0	0.0	0.00	0.0	0.0
6/5/2000	75°	0.0	0.00	0.0	0.0	0.0	0.00	0.0	0.0
6/12/2000	65°	0.0	0.00	0.0	0.0	0.0	0.00	0.0	0.0
6/23/2000	80°	2.0	0.50	64.6	62.4	3.0	0.15	35.4	32.3
7/5/2000	80°	2.5	0.02	12.9	12.1	2.0	0.18	38.7	37.4
7/24/2000	70°	2.6	0.04	18.3	16.7	OFF			
8/8/2000	90°	OFF				OFF			
8/21/2000	75°	2.4	0.20	40.8	38.2	OFF			
9/6/2000	75°	3.6	0.32	51.6	45.1	OFF			
9/27/2000	75°	4.0	0.50	64.6	55.2	2.0	0.80	81.7	78.2
10/10/2000	55°	OFF				3.8	0.40	57.7	48.1
10/23/2000	60°	OFF				2.2	0.12	31.6	29.1
11/10/2000	70°	2.0	0.10	28.9	27.4	OFF			
11/22/2000	50°	2.0	0.20	40.8	37.3	OFF			
12/6/2000	50°	2.4	0.00	0.0	0.0	OFF			
12/20/2000	60°	2.6	0.10	28.9	25.9	OFF			

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
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FAX 879-7103

LABORATORY REPORT

CLIENT: Lincoln Applied Geology
PROJECT: Village Beverage
DATE RECEIVED: November 22, 2000
REPORT DATE: December 4, 2000

ORDER ID: 10347
ANAL. METHOD: SW 8021B
SAMPLER: JR/JH
ANALYST: 555

Site: V-1
Ref. Number: 165956
Date Sampled: 11/22/00
Time Sampled: 2:00 PM
Analysis Date: 11/29/00

Parameter	Results ug/L
MTBE	808.
Benzene	630.
Toluene	147
Ethylbenzene	244
Xylenes, Total	534.
1,3,5 Trimethyl Benzene	41.0
1,2,4 Trimethyl Benzene	344.
Naphthalene	72.9
UIP's	7.
Surrogate 1	120.%

Site: MW-9
Ref. Number: 165959
Date Sampled: 11/22/00
Time Sampled: 2:20 PM
Analysis Date: 11/29/00

Parameter	Results ug/L
MTBE	1,500.
Benzene	1,120.
Toluene	362.
Ethylbenzene	401.
Xylenes, Total	3,840.
1,3,5 Trimethyl Benzene	244.
1,2,4 Trimethyl Benzene	977.
Naphthalene	239.
UIP's	>10.
Surrogate 1	102.%

Site: MW-5
Ref. Number: 165962
Date Sampled: 11/22/00
Time Sampled: 2:35 PM
Analysis Date: 11/30/00

Parameter	Results ug/L
MTBE	1,420.
Benzene	4,880.
Toluene	1,680.
Ethylbenzene	1,550.
Xylenes, Total	8,240.
1,3,5 Trimethyl Benzene	225.
1,2,4 Trimethyl Benzene	1,320.
Naphthalene	293.
UIP's	8.
Surrogate 1	97.%

Site: MW-4
Ref. Number: 165957
Date Sampled: 11/22/00
Time Sampled: 2:05 PM
Analysis Date: 11/29/00

Parameter	Results ug/L
MTBE	864.
Benzene	440.
Toluene	< 10.0
Ethylbenzene	32 6
Xylenes, Total	24.3
1,3,5 Trimethyl Benzene	< 10.0
1,2,4 Trimethyl Benzene	33.7
Naphthalene	< 10.0
UIP's	0.
Surrogate 1	100.%

Site: MW-3
Ref. Number: 165960
Date Sampled: 11/22/00
Time Sampled: 2:25 PM
Analysis Date: 11/29/00

Parameter	Results ug/L
MTBE	268.
Benzene	25.2
Toluene	< 5 0
Ethylbenzene	< 5.0
Xylenes, Total	50.6
1,3,5 Trimethyl Benzene	< 5.0
1,2,4 Trimethyl Benzene	< 5.0
Naphthalene	< 5.0
UIP's	1.
Surrogate 1	100.%

Site: MW-14
Ref. Number: 165963
Date Sampled: 11/22/00
Time Sampled: 2:40 PM
Analysis Date: 11/30/00

Parameter	Results ug/L
MTBE	1,610.
Benzene	774.
Toluene	1,640.
Ethylbenzene	540.
Xylenes, Total	4,340.
1,3,5 Trimethyl Benzene	544.
1,2,4 Trimethyl Benzene	1,680.
Naphthalene	223.
UIP's	>10.
Surrogate 1	95.%

Site: Sump
Ref. Number: 165958
Date Sampled: 11/22/00
Time Sampled: 2:15 PM
Analysis Date: 11/29/00

Parameter	Results ug/L
MTBE	1,980.
Benzene	1,390
Toluene	393.
Ethylbenzene	771.
Xylenes, Total	3,540.
1,3,5 Trimethyl Benzene	285.
1,2,4 Trimethyl Benzene	1,070.
Naphthalene	210.
UIP's	>10.
Surrogate 1	98.%

Site: MW-10
Ref. Number: 165961
Date Sampled: 11/22/00
Time Sampled: 2:30 PM
Analysis Date: 11/30/00

Parameter	Results ug/L
MTBE	4,060.
Benzene	4,090.
Toluene	972.
Ethylbenzene	2,520.
Xylenes, Total	14,800.
1,3,5 Trimethyl Benzene	802.
1,2,4 Trimethyl Benzene	2,860.
Naphthalene	463.
UIP's	>10.
Surrogate 1	97.%

Site: V-3
Ref. Number: 165964
Date Sampled: 11/22/00
Time Sampled: 2:45 PM
Analysis Date: 11/30/00

Parameter	Results ug/L
MTBE	5,950.
Benzene	7,100.
Toluene	6,860.
Ethylbenzene	762.
Xylenes, Total	8,920.
1,3,5 Trimethyl Benzene	527.
1,2,4 Trimethyl Benzene	1,450.
Naphthalene	< 100.
UIP's	9.
Surrogate 1	100.%

ENDYNE, INC.

Laboratory Services

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LABORATORY REPORT

CLIENT: Lincoln Applied Geology
PROJECT: Village Beverage
DATE RECEIVED: November 22, 2000
REPORT DATE: December 4, 2000

ORDER ID: 10347
ANAL. METHOD: SW 8021B
SAMPLER: JR/JH
ANALYST: 555

Site: MW-6
Ref. Number: 165965
Date Sampled: 11/22/00
Time Sampled: 2:50 PM
Analysis Date: 11/30/00

Parameter	Results ug/L
MTBE	15,900.
Benzene	6,860.
Toluene	6,600.
Ethylbenzene	1,140.
Xylenes, Total	12,400.
1,3,5 Trimethyl Benzene	1,340.
1,2,4 Trimethyl Benzene	3,840.
Naphthalene	602.
UIP's	>10.
Surrogate 1	94.%

Site: Influent Can 2
Ref. Number: 165968
Date Sampled: 11/22/00
Time Sampled: 11:15 AM
Analysis Date: 11/30/00

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 1.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	100.%

Site: MW-7
Ref Number: 165966
Date Sampled: 11/22/00
Time Sampled: 2:55 PM
Analysis Date: 11/30/00

Parameter	Results ug/L
MTBE	< 2,000.
Benzene	6,010.
Toluene	13,200.
Ethylbenzene	886.
Xylenes, Total	5,240.
1,3,5 Trimethyl Benzene	< 200.
1,2,4 Trimethyl Benzene	< 200.
Naphthalene	< 200.
UIP's	1.
Surrogate 1	100.%

Site: Influent Can 1
Ref. Number: 165969
Date Sampled: 11/22/00
Time Sampled: 11:15 AM
Analysis Date: 11/30/00

Parameter	Results ug/L
MTBE	26.5
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 1.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	99.%

Site: MW-17
Ref. Number: 165967
Date Sampled: 11/22/00
Time Sampled: 3:00 PM
Analysis Date: 11/30/00

Parameter	Results ug/L
MTBE	102,000.
Benzene	24,200.
Toluene	37,300.
Ethylbenzene	3,130.
Xylenes, Total	25,500.
1,3,5 Trimethyl Benzene	1,720.
1,2,4 Trimethyl Benzene	6,270.
Naphthalene	< 1,000.
UIP's	4.
Surrogate 1	97.%

Site: Effluent
Ref. Number: 165970
Date Sampled: 11/22/00
Time Sampled: 11:15 AM
Analysis Date: 11/30/00

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 1.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	99.%

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LABORATORY REPORT

CLIENT: Lincoln Applied Geology
PROJECT: Village Beverage
DATE RECEIVED: November 22, 2000
REPORT DATE: December 4, 2000

ORDER ID: 10347
ANAL. METHOD: SW 8021B
SAMPLER: JR/JH
ANALYST: 555

Site: Trip Blank
Ref. Number: 165938
Date Sampled: 11/22/00
Time Sampled: 8:00 AM
Analysis Date: 11/27/00

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 1.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	98.%

Site: S-2 Comp.
Ref. Number: 165941
Date Sampled: 11/22/00
Time Sampled: 10:30 AM
Analysis Date: 11/27/00

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 1.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	98.%

Site: Culvert by 1A
Ref. Number: 165944
Date Sampled: 11/22/00
Time Sampled: 10:45 AM
Analysis Date: 11/27/00

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 1.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0
Surrogate 1	95.%

Site: S-1A
Ref. Number: 165939
Date Sampled: 11/22/00
Time Sampled: 10:15 AM
Analysis Date: 11/29/00

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 1.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	92.%

Site: S-3 Comp.
Ref. Number: 165942
Date Sampled: 11/22/00
Time Sampled: 10:35 AM
Analysis Date: 11/27/00

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 1.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	97.%

Site: Culvert Effluent
Ref. Number: 165945
Date Sampled: 11/22/00
Time Sampled: 10:50 AM
Analysis Date: 11/27/00

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 1.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	101.%

Site: S-1
Ref. Number: 165940
Date Sampled: 11/22/00
Time Sampled: 10:25 AM
Analysis Date: 11/27/00

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 1.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	99.%

Site: S-4 Comp
Ref. Number: 165943
Date Sampled: 11/22/00
Time Sampled: 10:40 AM
Analysis Date: 11/27/00

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 1.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	100.%

Site: Wetland Drain
Ref. Number: 165946
Date Sampled: 11/22/00
Time Sampled: 11:00 AM
Analysis Date: 11/27/00

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 1.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	97.%

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LABORATORY REPORT

CLIENT: Lincoln Applied Geology
PROJECT: Village Beverage
DATE RECEIVED: November 22, 2000
REPORT DATE: December 4, 2000

ORDER ID: 10347
ANAL. METHOD: SW 8021B
SAMPLER: JR/JH
ANALYST: 555

Site: Seep into Wetland
Ref Number: 165947
Date Sampled: 11/22/00
Time Sampled: 11:05 AM
Analysis Date: 11/29/00

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 1.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	93.%

Site: Sump Effl. Comp.
Ref. Number. 165950
Date Sampled 11/22/00
Time Sampled: 11:20 AM
Analysis Date: 11/29/00

Parameter	Results ug/L
MTBE	1,430.
Benzene	1,880.
Toluene	2,890
Ethylbenzene	859.
Xylenes, Total	8,980
1,3,5 Trimethyl Benzene	489.
1,2,4 Trimethyl Benzene	1,820.
Naphthalene	363.
UIP's	>10.
Surrogate 1	97.%

Site: MW-15
Ref. Number: 165953
Date Sampled: 11/22/00
Time Sampled: 1:40 PM
Analysis Date: 11/29/00

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	4.8
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	3.0
Naphthalene	< 1.0
UIP's	2.
Surrogate 1	101.%

Site: Storm Sewer Out #2
Ref. Number: 165948
Date Sampled: 11/22/00
Time Sampled: 11:10 AM
Analysis Date: 11/29/00

Parameter	Results ug/L
MTBE	70.9
Benzene	43.9
Toluene	196.
Ethylbenzene	59.9
Xylenes, Total	684.
1,3,5 Trimethyl Benzene	39 3
1,2,4 Trimethyl Benzene	129.
Naphthalene	34.9
UIP's	>10.
Surrogate 1	97.%

Site: Sump Effluent
Ref Number: 165951
Date Sampled: 11/22/00
Time Sampled: 11:25 AM
Analysis Date: 11/29/00

Parameter	Results ug/L
MTBE	1,450.
Benzene	1,890.
Toluene	2,840.
Ethylbenzene	825.
Xylenes, Total	8,440.
1,3,5 Trimethyl Benzene	442.
1,2,4 Trimethyl Benzene	1,640.
Naphthalene	325.
UIP's	>10.
Surrogate 1	96.%

Site: MW-12
Ref. Number: 165954
Date Sampled: 11/22/00
Time Sampled: 1:45 PM
Analysis Date: 11/28/00

Parameter	Results ug/L
MTBE	131.
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 1.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	99.%

Site: Storm Sewer Out
Ref. Number: 165949
Date Sampled: 11/22/00
Time Sampled: 11:15 AM
Analysis Date: 11/29/00

Parameter	Results ug/L
MTBE	74.1
Benzene	44.7
Toluene	200.
Ethylbenzene	59.5
Xylenes, Total	686.
1,3,5 Trimethyl Benzene	37.7
1,2,4 Trimethyl Benzene	121.
Naphthalene	37.7
UIP's	>10.
Surrogate 1	97.%

Site: MW-8
Ref. Number: 165952
Date Sampled: 11/22/00
Time Sampled: 1:30 PM
Analysis Date: 11/28/00

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 1.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	97.%

Site: MW-16
Ref. Number: 165955
Date Sampled: 11/22/00
Time Sampled: 1:55 PM
Analysis Date: 11/29/00

Parameter	Results ug/L
MTBE	241.
Benzene	856.
Toluene	355.
Ethylbenzene	256.
Xylenes, Total	347.
1,3,5 Trimethyl Benzene	57.8
1,2,4 Trimethyl Benzene	313.
Naphthalene	43.9
UIP's	>10.
Surrogate 1	100.%

ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
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CHAIN-OF-CUSTODY RECORD

41076

Project Name: Village Beverage	Reporting Address: LAG	Billing Address: SBC
Endyne Order ID: (Lab Use Only) 10347 -O -I -S	Company: LAG Contact Name/Phone #: Rick Vandenberg	Sampler Name: Jeremy Powell + Joe Hogan Phone #: 453-4384

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
165967	MW-17	H_2O	X		11/22/00 1500	2	VOA		14	HCl	
165968	Influent Cum 2				1115						
165969	Influent Cum 1										
165970	Effluent										

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
[signature]	11/22/00	[signature]	11/22/00 3:15pm		

New York State Project: Yes ____ No ✓

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	
31	Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sr, Ti, Tl, V, Zn										
32	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)					33					
34	Other										

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ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

41079

Project Name: Village Beverage	Reporting Address: LAG	Billing Address: SBC
Endyne Order ID: (Lab Use Only) 10347 -O -I -S	Company: LAG Contact Name/Phone #: Rick Vandenberg	Sampler Name: Jeremy Reell + Joe Hogan Phone #: 453-4384

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
165957	MW-4	H_2O	X		11/22/00 1405	2	VOA		19	HCl	
165958	Sump				1415						
165959	MW-9				1420						
165960	MW-3				1425						
165961	MW-10				1430						
165962	MW-5				1435						
165963	MW-14				1440						
165964	V-3				1445						
165965	MW-6				1450						
165966	MW-7	✓	✓		1455	✓	✓		✓	✓	

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
[signature]	11/22/00	[signature]	11/22/00 3:15pm		

New York State Project: Yes ____ No ____

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	
31	Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sr, Ti, Tl, V, Zn										
32	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)					33					
34	Other										

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ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

41078

Project Name: Village Beverage	Reporting Address: LAG	Billing Address: SBC
Endyne Order ID: (Lab Use Only) 10347 -O -I -S	Company: LAG Contact Name/Phone #: Rick Vandenberg	Sampler Name: Jeremy Revell + Joe Hagan Phone #: 453-4384

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
165948	Storm sewer outflow #2 H2O		X		11/22/00 1110	2	VOA		19	HCl	
165949	Storm sewer outflow		X		1115						
165950	Sump Eff. Composite			X	1120						
165951	Sump Effluent		X		1125						
165952	MW-8				1330						
165953	MW-15				1340						
	MW-11							NO SAMPLE			
165954	MW-12				1345						
165955	MW-16				1355						
165956	V-1				1400						

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
[signature]	11/20/00	[signature]	11/22/00 3:15pm		

New York State Project: Yes ____ No ✓

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	
31	Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sr, Ti, Tl, V, Zn										
32	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)					33					
34	Other										

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ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

41077

Project Name: Village Beverage	Reporting Address: LAG	Billing Address: SBSC
Endyne Order ID: (Lab Use Only) 10347 (-O / -I / -S)	Company: LAG Contact Name/Phone #: Rick Vandenberg	Sampler Name: Jeremy Revell + Joe Hoe Phone #: 453-4384

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
165938	Trip Blank	H_2O	X		11/22/00 0800	2	40A		19	HCl	
165939	S-1a				1015						
165940	S-1				1025						
165941	S-2 composite			X	1030						
165942	S-3 composite			X	1035						
165943	S-4 composite			X	1040						
165944	Culvert by IA		X		1045						
165945	Culvert Effluent				1050						
165946	Wetland Drain				1100						
165947	Seepage Into wetland				1105						

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
	11/22/00		11/22/00 3:15pm		

New York State Project: Yes ____ No ✓

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	
31	Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sr, Ti, Tl, V, Zn										
32	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)					33					
34	Other										

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ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

Lincoln Applied Geology
163 Revell Drive
Lincoln, VT 05443
Attn: Rick Vandenberg

PROJECT: Village Beverage
ORDER ID: 10182
RECEIVE DATE: November 10, 2000
REPORT DATE: November 17, 2000

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

CLIENT: Lincoln Applied Geology
PROJECT: Village Beverage
REPORT DATE: November 17, 2000

ORDER ID: 10182
DATE RECEIVED: November 10, 2000
SAMPLER: JR

Site: Effluent
Ref. Number: 165373 Date Sampled: 11/10/00
Anal. Method: SW 8021B Time Sampled: 1:50 PM
Analyst: 555 Analysis Date: 11/15/00

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 1.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	94.%

Site: Influent Can 1
Ref. Number: 165375 Date Sampled: 11/10/00
Anal. Method: SW 8021B Time Sampled: 1:50 PM
Analyst: 555 Analysis Date: 11/14/00

Parameter	Results ug/L
MTBE	40.6
Benzene	4.4
Toluene	5.7
Ethylbenzene	< 1.0
Xylenes, Total	4.9
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	3.
Surrogate 1	100.%

Site: Influent Can 2
Ref. Number: 165374 Date Sampled: 11/10/00
Anal. Method: SW 8021B Time Sampled: 1:50 PM
Analyst: 555 Analysis Date: 11/14/00

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 1.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	2.
Surrogate 1	98.%

ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

41075

Project Name:	Reporting Address:	Billing Address:
Village Energy	LAG	[illegible]
Endyne Order ID: (Lab Use Only) 10182 — -O / -I / -S	Company: LAG Contact Name/Phone #: Rick [illegible]	Sampler Name: [illegible] Phone #: [illegible]

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
165373	[illegible]	H2O	X		[illegible]	2	VOA		[illegible]	HCl	
165374	[illegible]										
165375	[illegible]										

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
[illegible]	[illegible]	[illegible]	11/10 2:35		

New York State Project: Yes ____ No ____

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	
31	Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sr, Ti, Tl, V, Zn										
32	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)					33					
34	Other										

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ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

Lincoln Applied Geology
163 Revell Drive
Lincoln, VT 05443
Attn: Rick Vandenburg

PROJECT: Village Beverage
ORDER ID: 9900
RECEIVE DATE: October 23, 2000
REPORT DATE: November 1, 2000

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Sample 164379-164381 were observed to have a pH of 7.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

Enclosures

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

CLIENT: Lincoln Applied Geology
PROJECT: Village Beverage
REPORT DATE: November 1, 2000

ORDER ID: 9900
DATE RECEIVED: October 23, 2000
SAMPLER: JR

Site: Effluent
Ref. Number: 164379 Date Sampled: 10/23/00
Anal. Method: SW 8021B Time Sampled: 1:30 PM
Analyst: 555 Analysis Date: 10/30/00

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 1.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	81.%

Site: Influent Can 1
Ref. Number: 164381 Date Sampled: 10/23/00
Anal. Method: SW 8021B Time Sampled: 1:30 PM
Analyst: 555 Analysis Date: 10/27/00

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 1.0
Toluene	1.2
Ethylbenzene	3.1
Xylenes, Total	4.8
1,3,5 Trimethyl Benzene	2.5
1,2,4 Trimethyl Benzene	6.7
Naphthalene	3.6
UIP's	>10.
Surrogate 1	84.%

Site: Influent Can 2
Ref. Number: 164380 Date Sampled: 10/23/00
Anal. Method: SW 8021B Time Sampled: 1:30 PM
Analyst: 555 Analysis Date: 10/27/00

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 1.0
Toluene	1.8
Ethylbenzene	2.1
Xylenes, Total	2.0
1,3,5 Trimethyl Benzene	1.1
1,2,4 Trimethyl Benzene	2.7
Naphthalene	1.4
UIP's	6.
Surrogate 1	83.%

ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY RECORD

40062

Project Name: Village Beverage	Reporting Address: LAG	Billing Address: SBC
Endyne Order ID: 9900 (Lab Use Only) -O -I -S	Company: LAG Contact Name/Phone #: Rick Vandenberg	Sampler Name: Jeremy Revell Phone #: 453-4384

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
164379	Effluent	H_2O	X		10/23/10 1550	2	VOA		19	HCl	
164380	Influent Can 2	↓	↓		↓	↓	↓		↓	↓	
164381	Influent Can 1	↓	↓		↓	↓	↓		↓	↓	

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
[signature]	10/23/10 1415	[signature]	10/23/10 3:00pm		

New York State Project: Yes ____ No X

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	
31	Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sr, Ti, Tl, V, Zn										
32	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)					33					
34	Other										

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Appendix B

Air Quality Analytical Results and Evaluation

Project: Fomer Village Beverage
Location: Colchester, Vermont

Appendix B
VDEC Site # 87-0068
Sheet 1 of 1

Air Sampling Results and Calculations

Air Sample	Compound	Concentration (ppmv)	% Composition	Molecular Weight (g/mol)	Air Pollution Factor ($mg/m^3/ppmv$)	Concentration (mg/m^3)	Total lb/m3	PID (ppmv)
DPE System Effluent 07/14/1999	Benzene	0.0232	3.1%	78	3.242	0.075	0.000007	72
	Toluene	0.0160	2.2%	92	3.824	0.061		
	Ethylbenzene	0.0050	0.7%	106	4.406	0.022		
	Xylenes	0.0404	5.5%	106	4.406	0.178		
	MTBE	0.108	15%	88	3.658	0.395		
	BTEX	0.0846						
	Total Other Hydrocarbons	0.544	74%	108	4.490	2.44		
	BTEX + MTBE	0.193						
	Totals	0.737				3.17		
DPE System Effluent 08/24/1999	Benzene	2.36	2.6%	78	3.242	7.651	0.000826	130
	Toluene	1.24	1.4%	92	3.824	4.742		
	Ethylbenzene	0.22	0.2%	106	4.406	0.969		
	Xylenes	0.63	0.7%	106	4.406	2.776		
	MTBE	27.8	31%	88	3.658	102		
	BTEX	4.45						
	Total Other Hydrocarbons	57.2	64%	108	4.490	257		
	BTEX + MTBE	32.25						
	Totals	89.45				375		
Influent to Vac50 08/21/2000	Benzene	3.98	0.5%	78	3.242	12.906	0.007928	7
	Toluene	11.10	1.4%	92	3.824	42.429		
	Ethylbenzene	5.29	0.7%	106	4.406	23.325		
	Xylenes	13.96	1.7%	106	4.406	61.486		
	MTBE	29.2	4%	88	3.658	107		
	BTEX	34.33						
	Total Other Hydrocarbons	746.0	92%	108	4.490	3,349		
	BTEX + MTBE	63.50						
	Totals	809.45				3,596		

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

Lincoln Applied Geology
163 Revell Drive
Lincoln, VT 05443
Attn: Rick Vandenberg

PROJECT: Village Beverage
ORDER ID: 8979
RECEIVE DATE: August 21, 2000
REPORT DATE: September 8, 2000

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

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RECEIVED
SEP 11 2000
LINCOLN APPLIED GEOLOGY

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

CLIENT: Lincoln Applied Geology
PROJECT: Village Beverage
REPORT DATE: September 8, 2000

ORDER ID: 8979
DATE RECEIVED: August 21, 2000
SAMPLER: JR/JH
ANALYST: 128

Ref. Number: 160834 | Site: Influent VAC 50 | Date Sampled: August 21, 2000 | Time: 11:42 AM

Parameter	Result	Unit	Method	Analysis Date
Benzene	254.	ug	NIOSH 1501	9/6/00
Toluene	835.	ug	NIOSH 1501	9/6/00
Ethylbenzene	459.	ug	NIOSH 1501	9/6/00
Xylenes, Total	1,210.	ug	NIOSH 1501	9/6/00
MTBE	2,100.	ug	NIOSH 1501	9/6/00
Total Other Hydrocarbons	65,900.	ug	NIOSH 1501	9/6/00

ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

36847

Project Name: Village Beverage	Reporting Address: LAG	Billing Address: SBC
Endyne Order ID: (Lab Use Only) 8979 (-0, -1, -S)	Company: LAG Contact Name/Phone #: Rick Vandenberg	Sampler Name: Jeremy Coell + Joe Horgan Phone #: 453-4384

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
160801	Trip Blank	H_2O	X		8/21/00 0800	2	VOA		19	HCl	
160802	S-4 Composite			X	1120						
160803	S-3 Composite			X	1125						
160804	S-1A				1130						
160805	S-1				1135						
160806	S-2 Composite			X	1140						
160807	Culvert Effluent				1145						
160808	Wetland Drain				1150						
160809	Culvert by 1A				1155						
160810	Seepage into Wetland				1200						

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
[signature]	8/21/00	[signature]	8/21/00 4:20pm		

New York State Project: Yes ____ No ✓

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	
31	Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sr, Ti, Tl, V, Zn										
32	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)					33					
34	Other										

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ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

36848

Project Name: Village Beverage	Reporting Address: LAG	Billing Address: SJC
Endyne Order ID: (Lab Use Only) 8979 (-O, -I, -S)	Company: LAG Contact Name/Phone #: Rick Vandenberg	Sampler Name: Jeremy Powell / Joe Hagan Phone #: 453-4384

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
160811	Storm Sewer Outflow #2				8/21/00 1205	2	VOA		A	HCl	
160812	Stormsewer outflow				1210						
160813	Sump				1215						
160814	Sump Effluent (comp.)			X	1220						
160815	Sump Effluent				1225						
160816	MW-8				1455						
160817	MW-15				1500						
160818	MW-16				1505						
160819	MW-12				1515						
160820	MW-9				1520						

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
	8/21/00		8/21/00 4:22pm		

New York State Project: Yes ____ No ✓

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	

31 Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sr, Ti, Tl, V, Zn

32 TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides) 33

34 Other

(White, Yellow, Pink Copy - Laboratory / Goldenrod Copy - Client)

ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

36843

Project Name: Village Beverage	Reporting Address: LAG	Billing Address: SBC
Endyne Order ID: (Lab Use Only) 8979 — 2-O / -I / -S	Company: LAG Contact Name/Phone #: Rick Vandenberg	Sampler Name: Jeremy Ravello & Joe Hogan Phone #: 453-4384

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
160821	MW-3	H_2O	X		8/21/00 1525	2	VOA		19	HCl	
160822	MW-4				1530						
160823	MW-14				1535						
160824	V-1				1540						
160825	MW-5				1545						
160826	MW-10				1550						
160827	MW-6				1555						
160828	V-3				1600						
160829	MW-7				1605						
160830	MW-17				1610						

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
[signature]	8/21/00	[signature]	8/21/00 4:20pm	[signature]	

New York State Project: Yes ____ No ____

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	
31	Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sr, Ti, Tl, V, Zn										
32	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)					33					
34	Other										

(White, Yellow, Pink Copy - Laboratory / Goldenrod Copy - Client)

ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

36844

Project Name: Village Beverage	Reporting Address: LAG	Billing Address: SBC
Endyne Order ID: (Lab Use Only) 8979 — 20 / -I / -S	Company: LAG Contact Name/Phone #: Rick Vandenberg	Sampler Name: Jeremy Revell + Joe Hagan Phone #: 453-4384

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
160831	Effluent	H_2O	X		8/21/00 1440	2	VOA		19	HCl	
160832	Influent Can 2	↓	↓		↓ 1440	↓	↓		↓	↓	
160833	Influent Can 1	↓	↓		↓ 1440	↓	↓		↓	↓	
160834	Influent VAC 50	Air	↓		↓ 1142	↓	Carbon Tubes		34	Cool	

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
[signature]	8/21/00	[signature]	8/21/00 4:20pm		

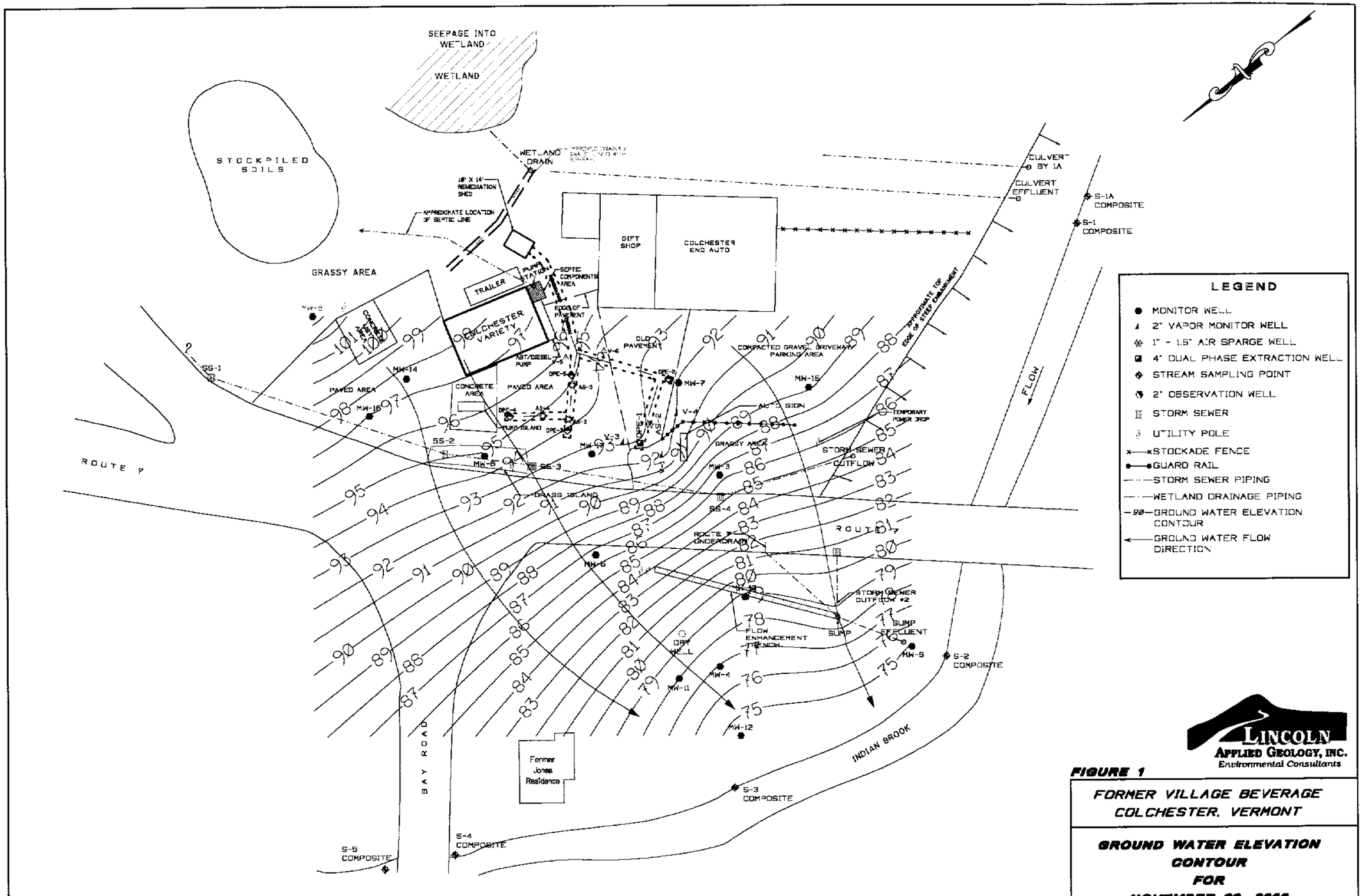
New York State Project: Yes ____ No ✓

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	

31	Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sr, Ti, Tl, V, Zn
32	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides) — 33
34	Other NIOSH 1501

(White, Yellow, Pink Copy - Laboratory / Goldenrod Copy - Client)



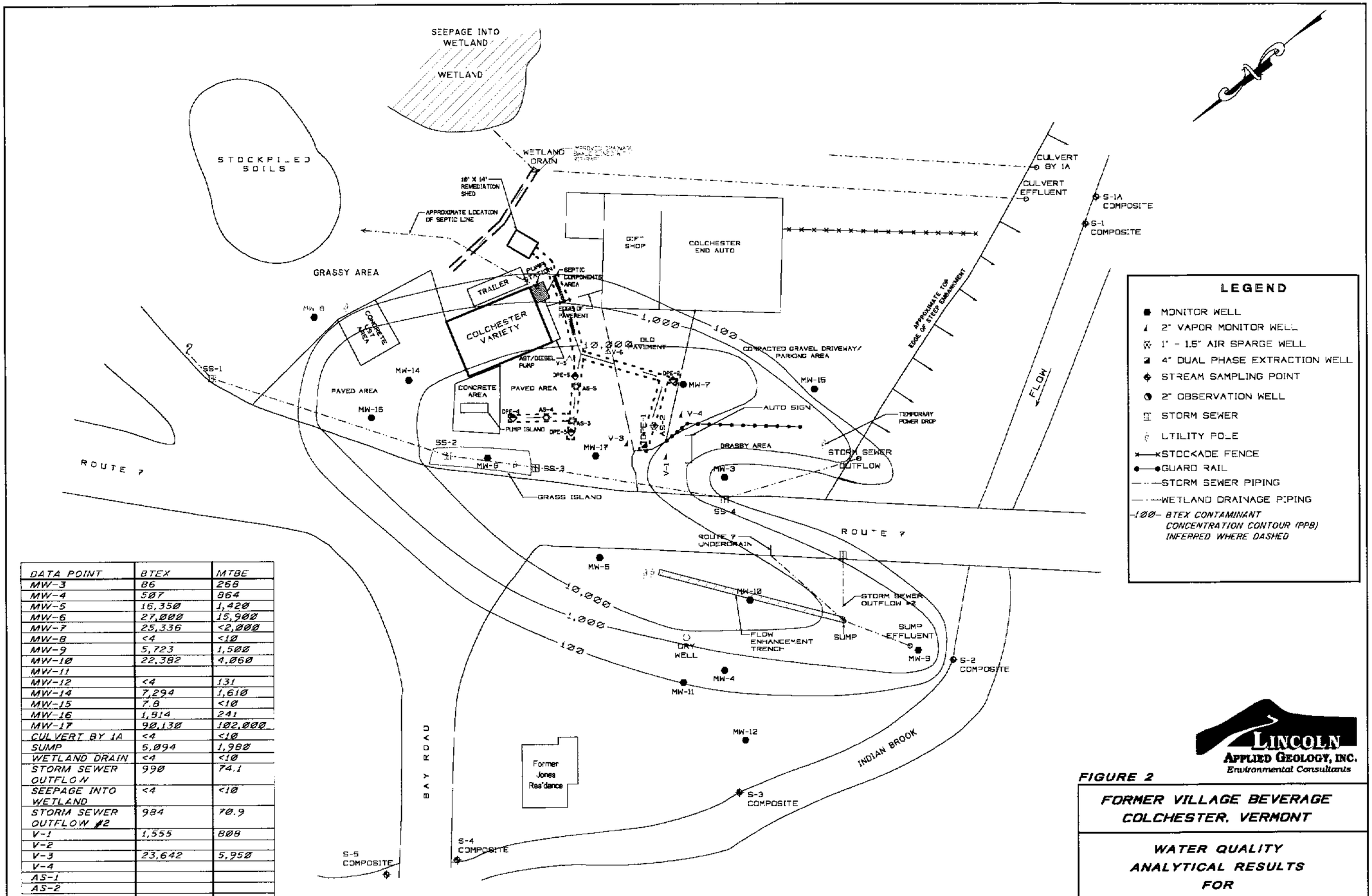
LINCOLN APPLIED GEOLOGY, INC.
Environmental Consultants

FIGURE 1

FORMER VILLAGE BEVERAGE
COLCHESTER, VERMONT

GROUND WATER ELEVATION CONTOUR FOR NOVEMBER 22, 2000

Date:	Job Type:	Scale:
JUNE '98	PETROLEUM CONTAMINATION	1" = 50'



DATA POINT	BTEX	MTBE
MW-3	86	268
MW-4	507	864
MW-5	16,350	1,420
MW-6	27,000	15,900
MW-7	25,336	<2,000
MW-8	<4	<10
MW-9	5,723	1,500
MW-10	22,382	4,060
MW-11		
MW-12	<4	131
MW-14	7,294	1,610
MW-15	7.8	<10
MW-16	1,814	241
MW-17	90,130	102,000
CULVERT BY 1A	<4	<10
SUMP	6,094	1,980
WETLAND DRAIN	<4	<10
STORM SEWER OUTFLOW	990	74.1
SEEPAGE INTO WETLAND	<4	<10
STORM SEWER OUTFLOW #2	984	70.9
V-1	1,555	808
V-2		
V-3	23,642	5,950
V-4		
AS-1		
AS-2		
SVE-1		
SVE-2		

LINCOLN APPLIED GEOLOGY, INC.
Environmental Consultants

FIGURE 2

FORMER VILLAGE BEVERAGE
COLCHESTER, VERMONT

WATER QUALITY
ANALYTICAL RESULTS
FOR
NOVEMBER 22, 2000

Date:	Job Type:	Scale:
JUNE '99	PETROLEUM CONTAMINATION	1" = 50'

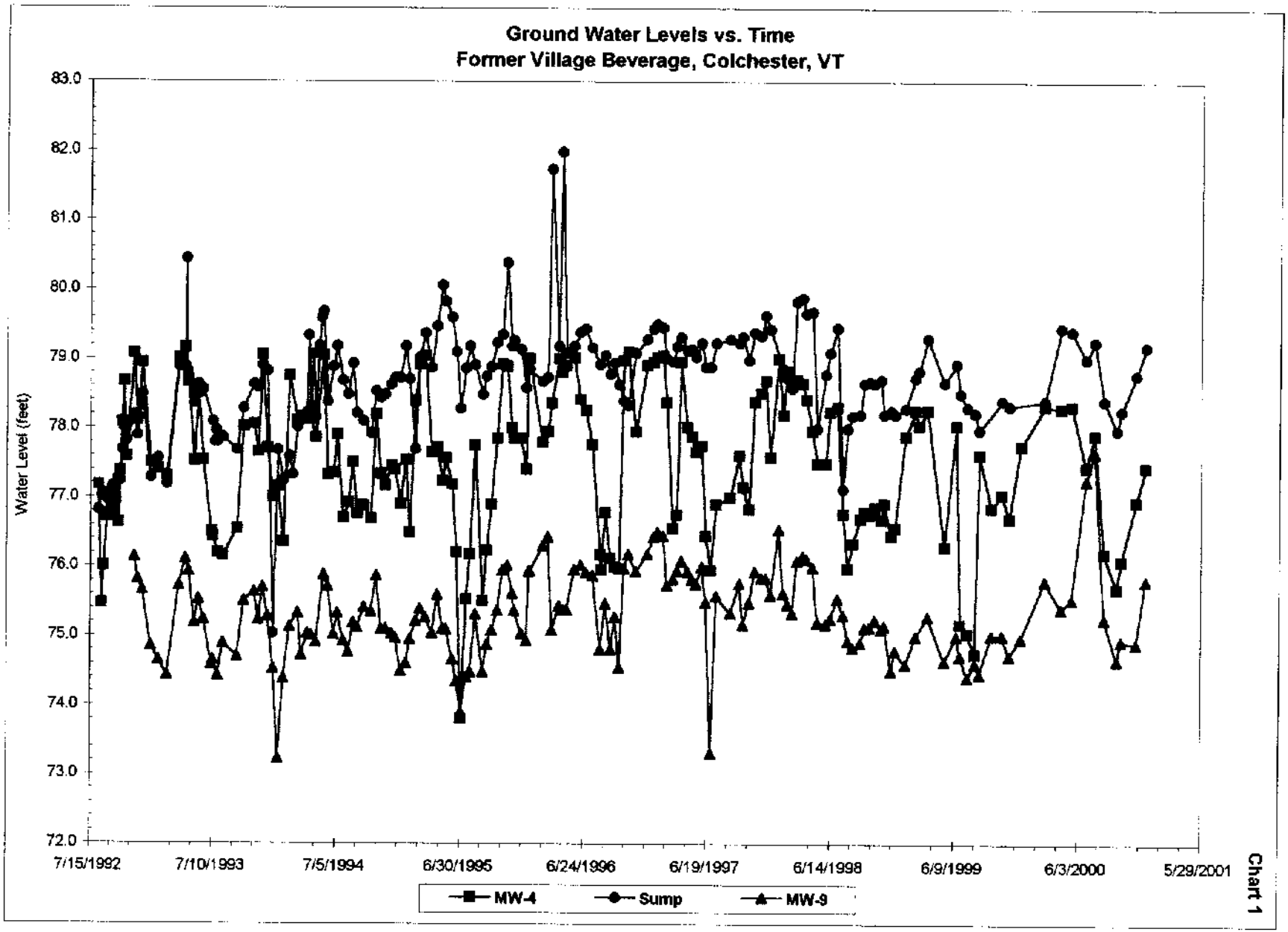

Ground Water Levels vs. Time
Former Village Beverage, Colchester, VT
Water Level (feet)
83.0
82.0
81.0
80.0
79.0
78.0
77.0
76.0
75.0
74.0
73.0
72.0
7/15/1992
7/10/1993
7/5/1994
6/30/1995
6/24/1996
6/19/1997
6/14/1998
6/9/1999
6/3/2000
5/29/2001
MW-4
Sump
MW-9

Chart 1

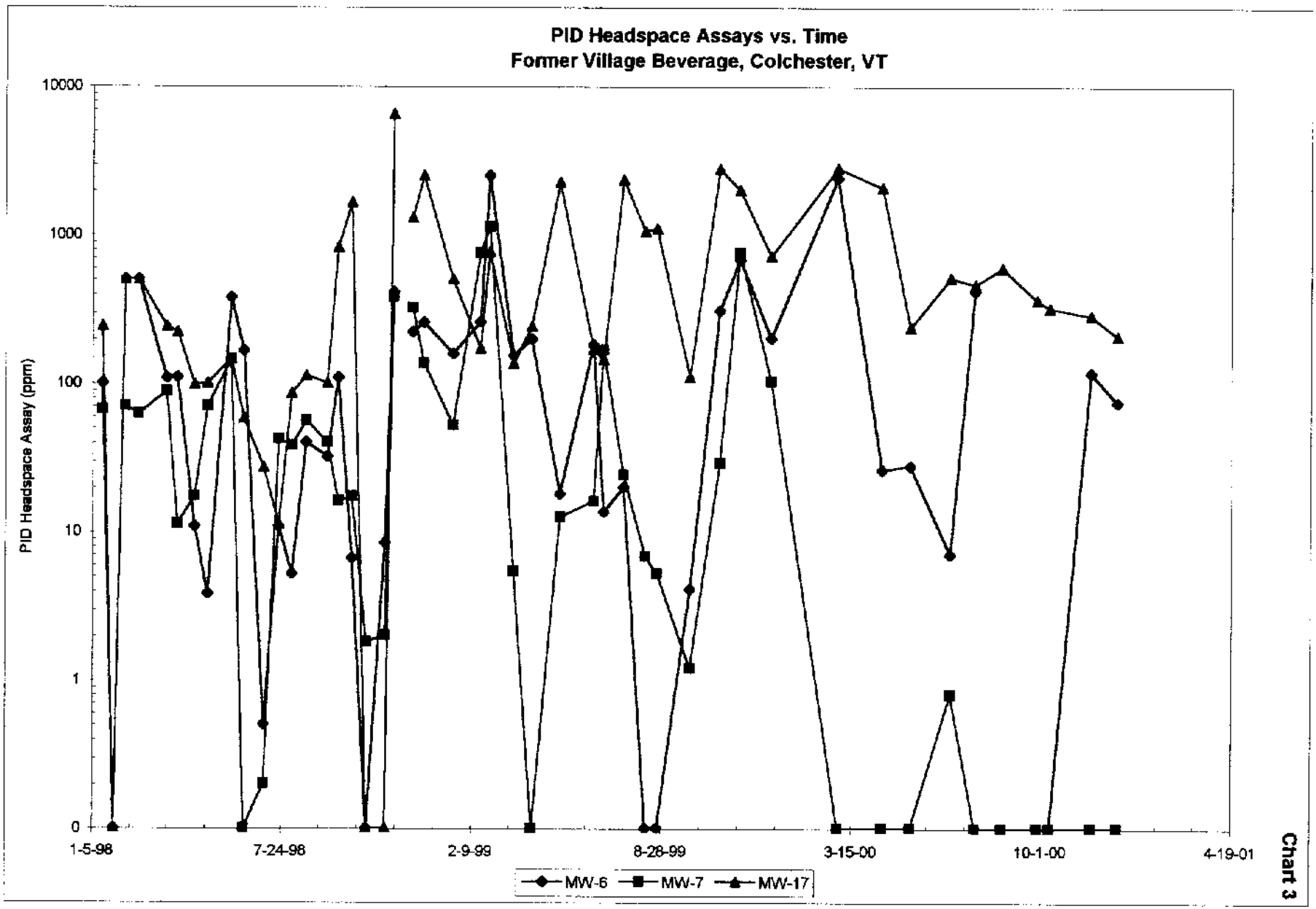

PID Headspace Assays vs. Time
Former Village Beverage, Colchester, VT
PID Headspace Assay (ppm)
10000
1000
100
10
1
0
1-5-98
7-24-98
2-9-99
8-28-99
3-15-00
10-1-00
4-19-01
MW-6
MW-7
MW-17

Chart 3

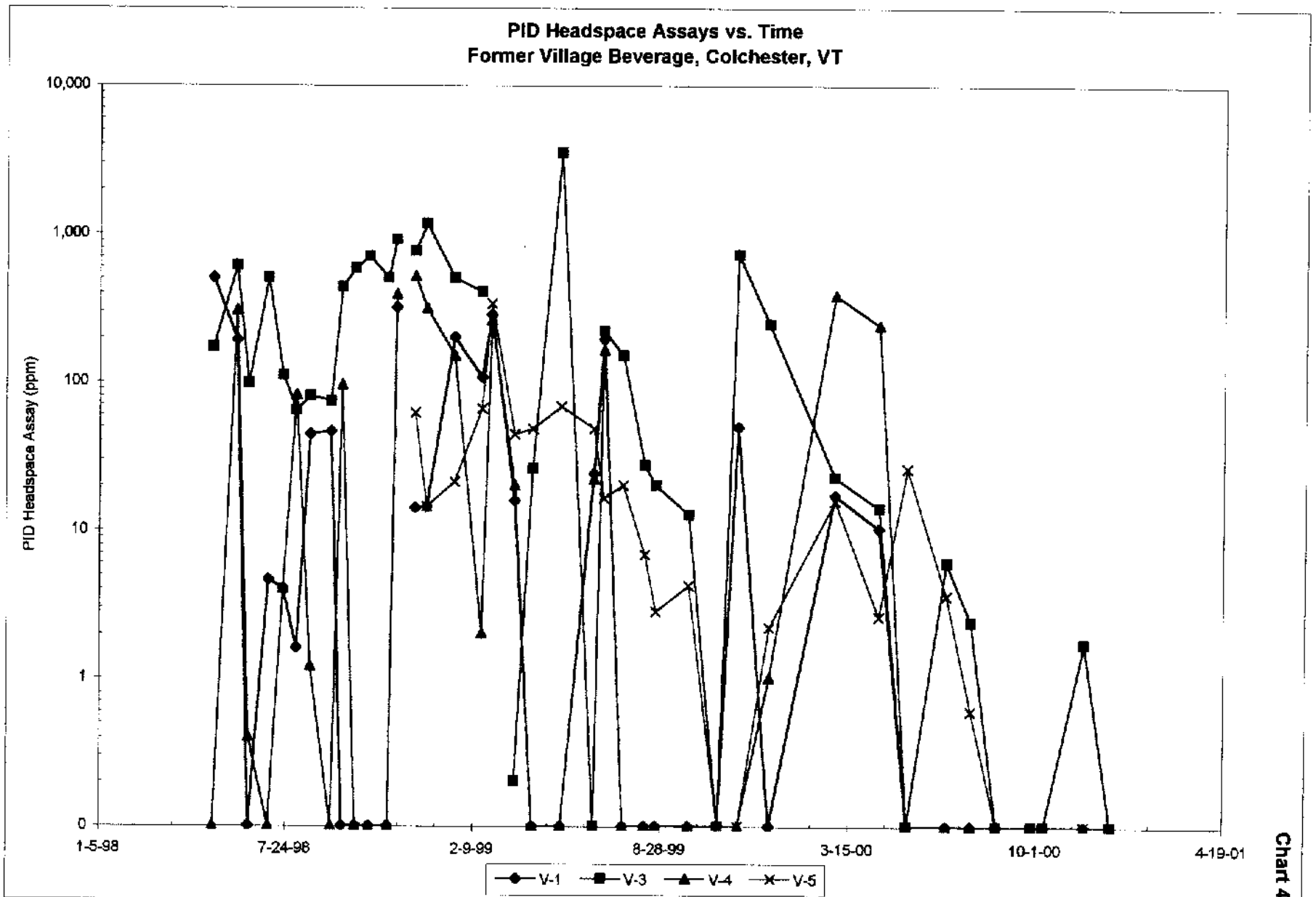

PID Headspace Assays vs. Time
Former Village Beverage, Colchester, VT
PID Headspace Assay (ppm)
10,000
1,000
100
10
1
0
1-5-98
7-24-98
2-9-99
8-28-99
3-15-00
10-1-00
4-19-01
V-1
V-3
V-4
V-5

Chart 4

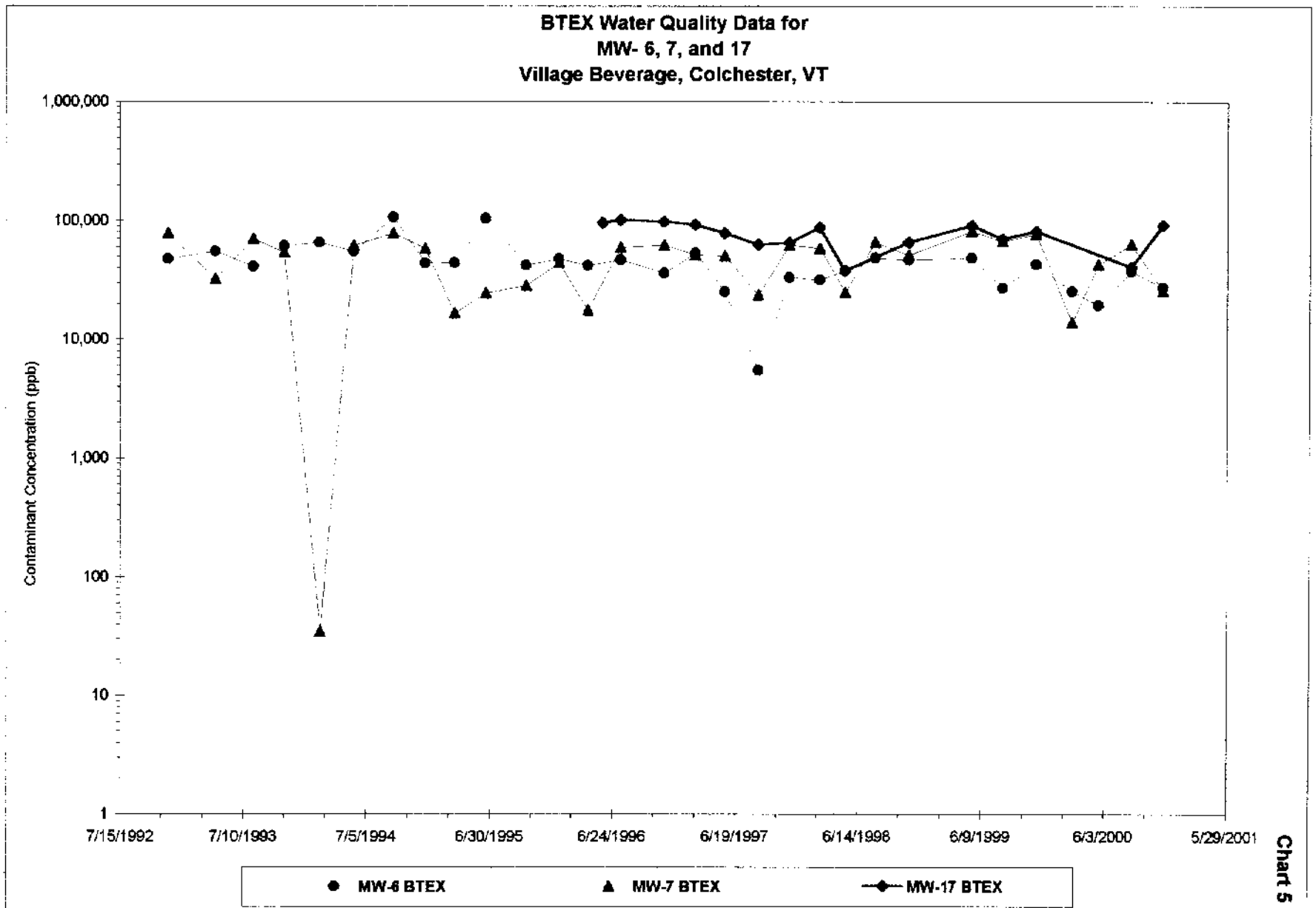

BTEX Water Quality Data for
MW- 6, 7, and 17
Village Beverage, Colchester, VT
Contaminant Concentration (ppb)
1,000,000
100,000
10,000
1,000
100
10
1
7/15/1992
7/10/1993
7/5/1994
6/30/1995
6/24/1996
6/19/1997
6/14/1998
6/9/1999
6/3/2000
5/29/2001
MW-6 BTEX
MW-7 BTEX
MW-17 BTEX

Chart 5

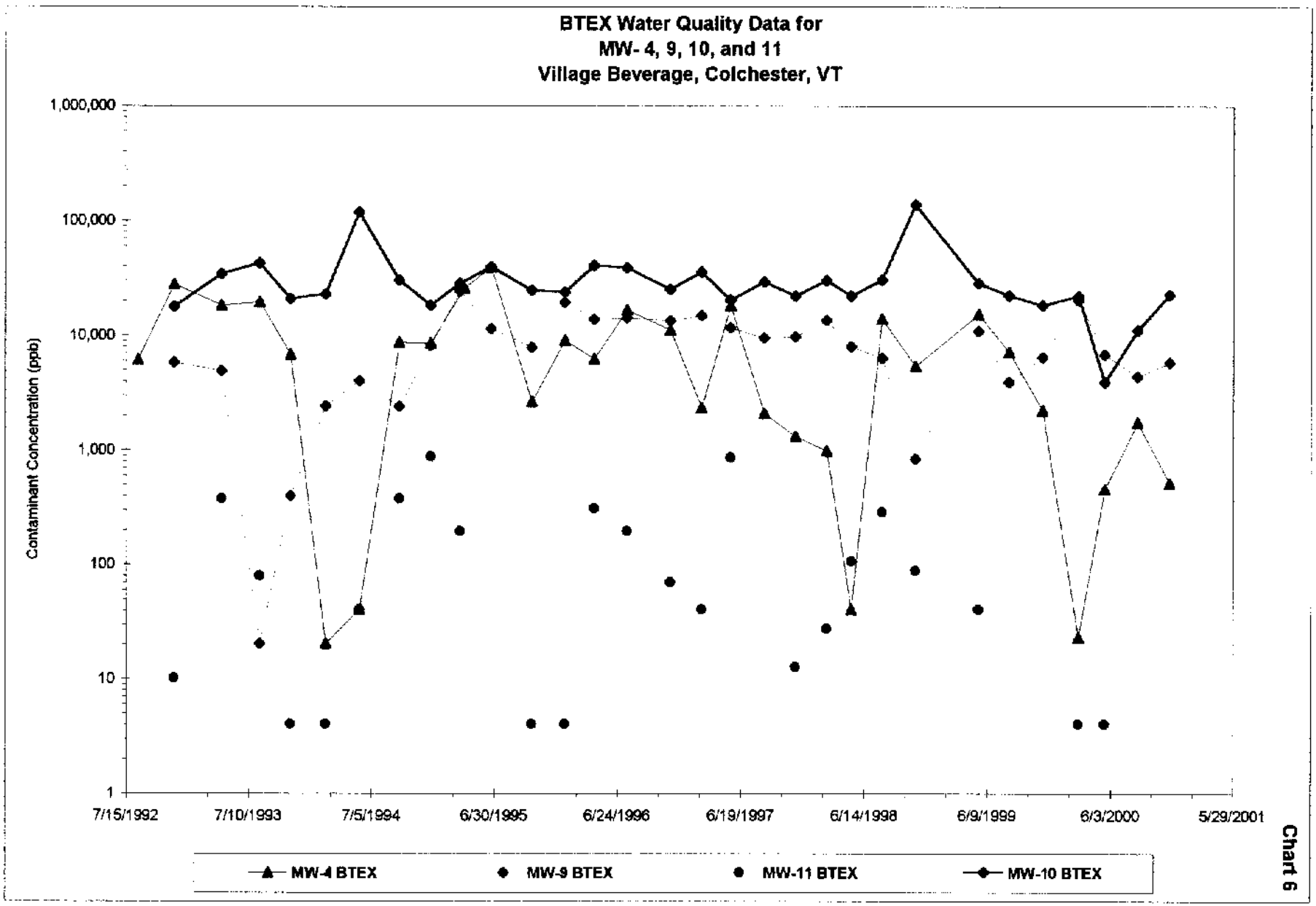
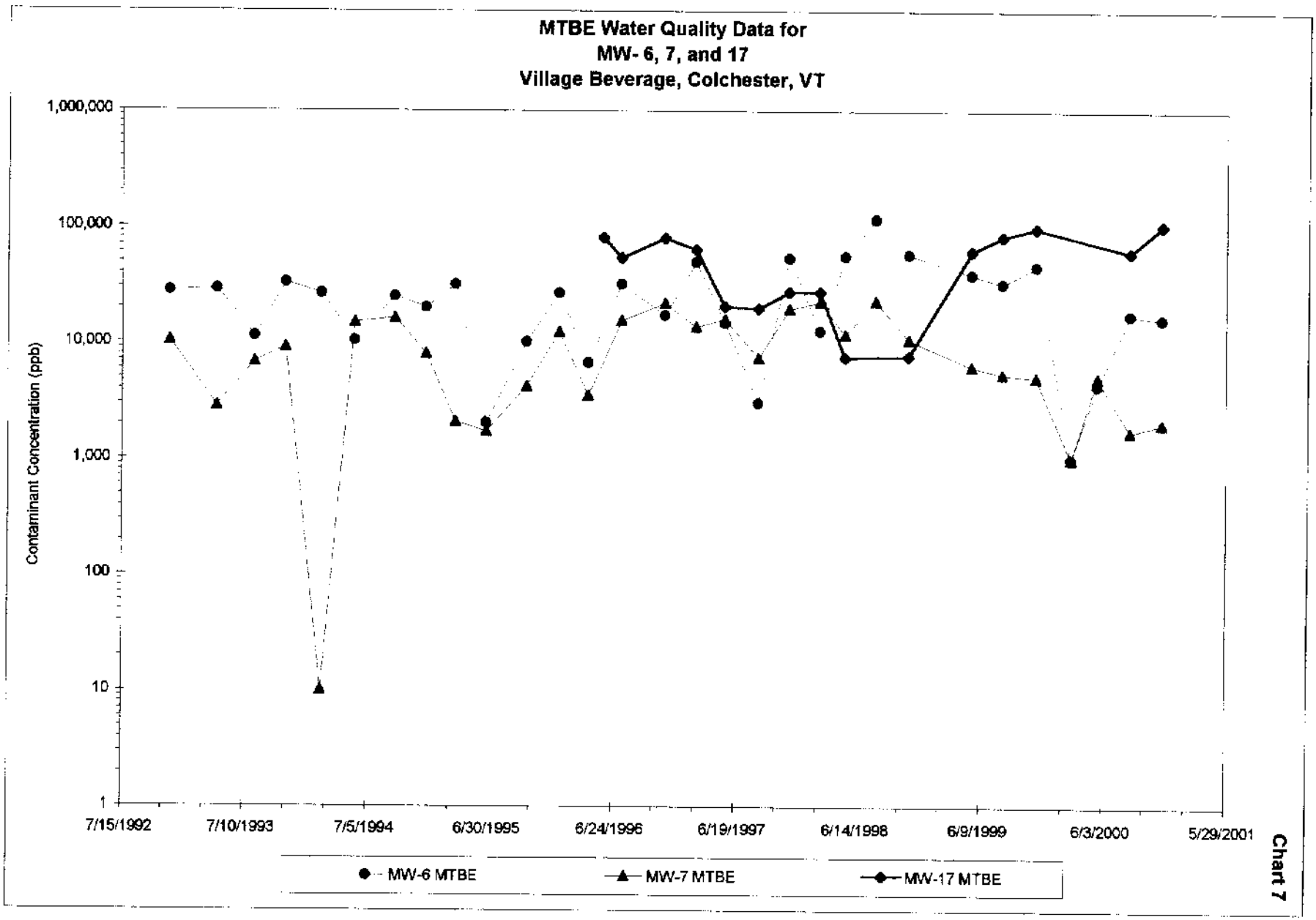
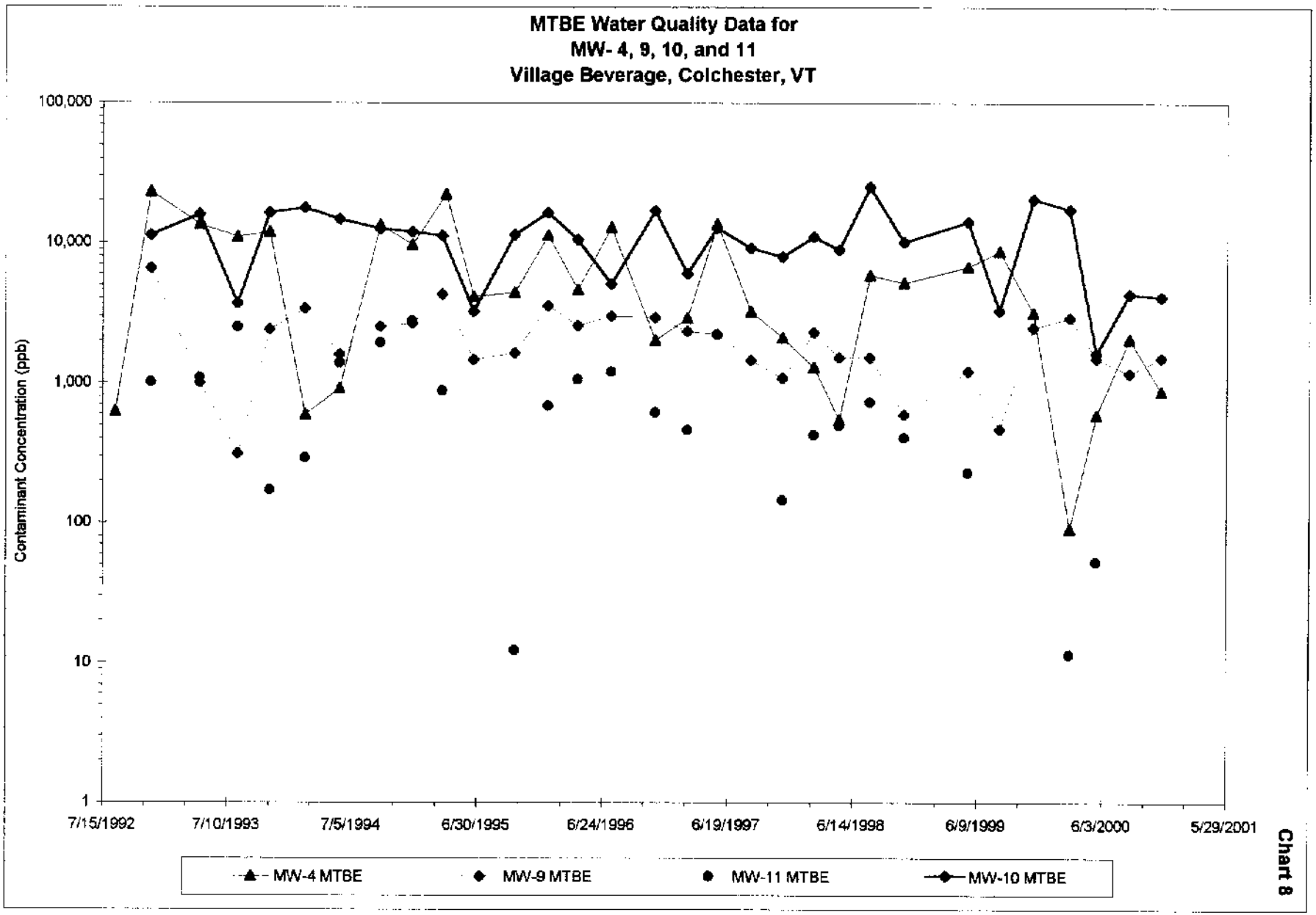
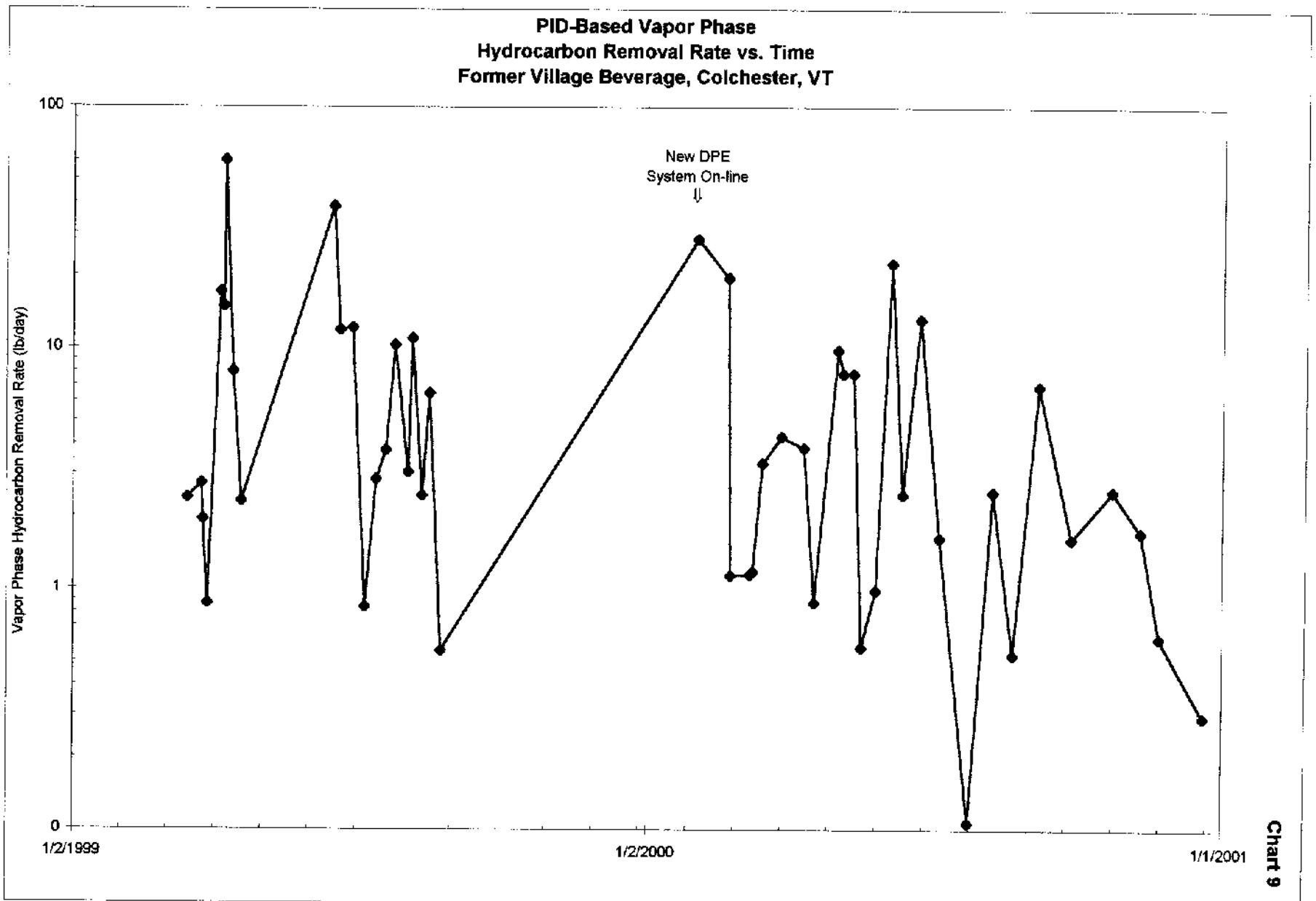

BTEX Water Quality Data for
MW- 4, 9, 10, and 11
Village Beverage, Colchester, VT
Contaminant Concentration (ppb)
1,000,000
100,000
10,000
1,000
100
10
1
7/15/1992
7/10/1993
7/5/1994
6/30/1995
6/24/1996
6/19/1997
6/14/1998
6/9/1999
6/3/2000
5/29/2001
MW-4 BTEX
MW-9 BTEX
MW-11 BTEX
MW-10 BTEX

Chart 6


MTBE Water Quality Data for
MW- 6, 7, and 17
Village Beverage, Colchester, VT
Contaminant Concentration (ppb)
1,000,000
100,000
10,000
1,000
100
10
1
7/15/1992
7/10/1993
7/5/1994
6/30/1995
6/24/1996
6/19/1997
6/14/1998
6/9/1999
6/3/2000
5/29/2001
MW-6 MTBE
MW-7 MTBE
MW-17 MTBE
Chart 7



Notes:
The data sets for 'MW-4 MTBE' and 'MW-11 MTBE' could not be fitted with linear trend lines.


PID-Based Vapor Phase
Hydrocarbon Removal Rate vs. Time
Former Village Beverage, Colchester, VT
Vapor Phase Hydrocarbon Removal Rate (lb/day)
100
10
1
0
1/2/1999
1/2/2000
1/1/2001
New DPE
System On-line
Chart 9

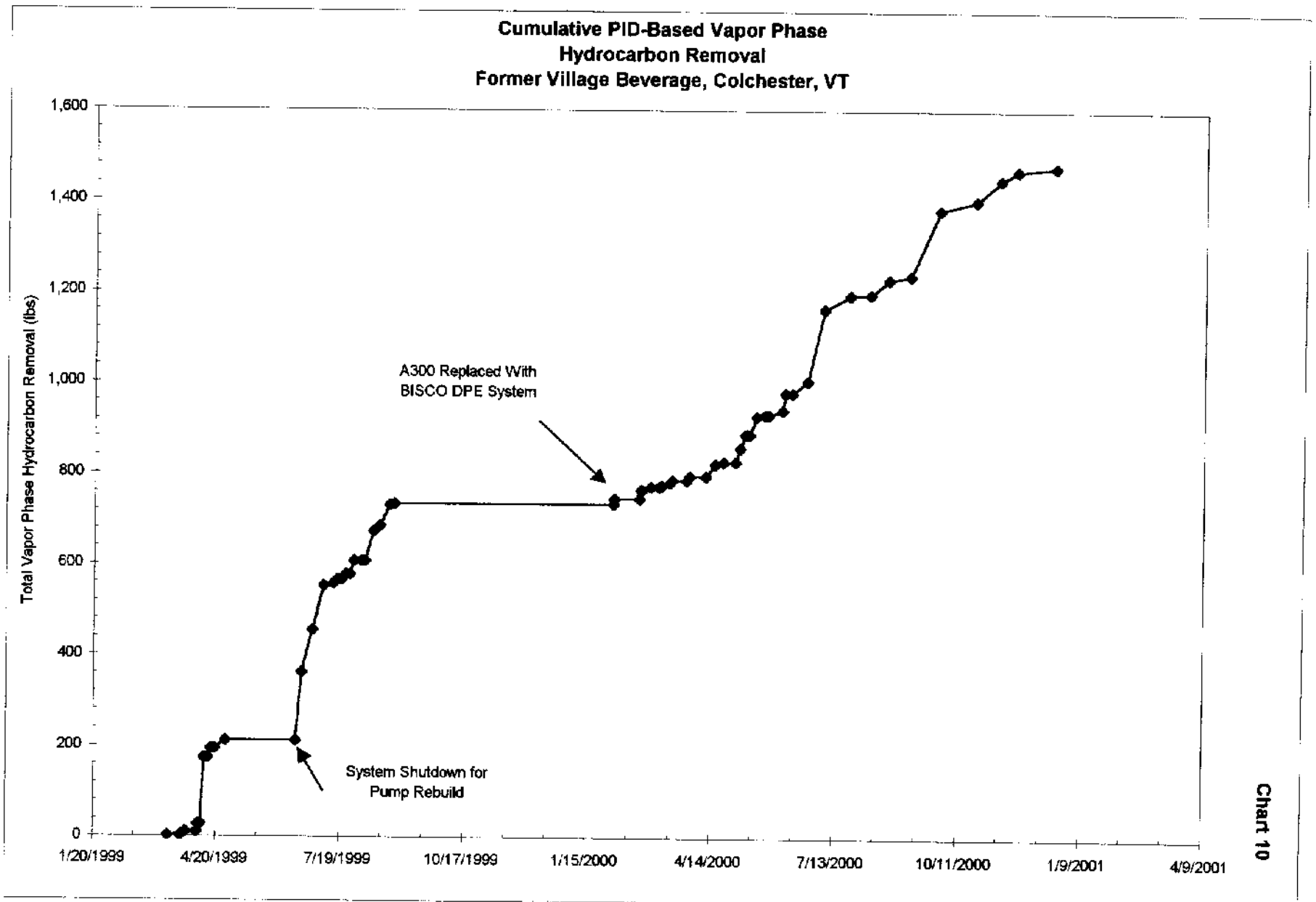

Cumulative PID-Based Vapor Phase
Hydrocarbon Removal
Former Village Beverage, Colchester, VT
Total Vapor Phase Hydrocarbon Removal (lbs)
1,600
1,400
1,200
1,000
800
600
400
200
0
1/20/1999
4/20/1999
7/19/1999
10/17/1999
1/15/2000
4/14/2000
7/13/2000
10/11/2000
1/9/2001
4/9/2001
A300 Replaced With
BISCO DPE System
System Shutdown for
Pump Rebuild

Chart 10

Appendix A

Water Quality Laboratory Reports

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

Lincoln Applied Geology
163 Revell Drive
Lincoln, VT 05443
Attn: Rick Vandenberg

PROJECT: Village Beverage
ORDER ID: 10714
RECEIVE DATE: December 20, 2000
REPORT DATE: January 2, 2001

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures

1/4/01 FCB

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

CLIENT: Lincoln Applied Geology
PROJECT: Village Beverage
REPORT DATE: January 2, 2001

ORDER ID: 10714
DATE RECEIVED: December 20, 2000
SAMPLER: JR

Site: Effluent
Ref. Number: 167355 Date Sampled: 12/20/00
Anal. Method: SW 8021B Time Sampled: 12:40 PM
Analyst: 725 Analysis Date: 12/28/00

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 1.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	99.%

Site: Influent Can 1
Ref. Number: 167357 Date Sampled: 12/20/00
Anal. Method: SW 8021B Time Sampled: 12:40 PM
Analyst: 725 Analysis Date: 12/28/00

Parameter	Results ug/L
MTBE	445.
Benzene	10.3
Toluene	< 5.0
Ethylbenzene	< 5.0
Xylenes, Total	< 5.0
1,3,5 Trimethyl Benzene	< 5.0
1,2,4 Trimethyl Benzene	< 5.0
Naphthalene	< 5.0
UIP's	0.
Surrogate 1	98.%

Site: Influent Can 2
Ref. Number: 167356 Date Sampled: 12/20/00
Anal. Method: SW 8021B Time Sampled: 12:40 PM
Analyst: 725 Analysis Date: 12/28/00

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 1.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	98.%

LAB TAE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY RECORD

40336

Project Name: Village Beverage	Reporting Address: LAB	Billing Address: SBC
Endyne Order ID: (Lab Use Only) 10714 (-O, -I, -S)	Company: LAB Contact Name/Phone #: Rick Vandenberg	Sampler Name: Jeremy Revell Phone #: 455-4584

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
167355	Effluent	H2O	X		12/20/00 1240	2	VOA		19	HCl	
167356	Influent Comp	↓	↓		↓	↓	↓		↓	↓	
167357	Influent Comp 1	↓	↓		↓	↓	↓		↓	↓	
		↓	↓		↓	↓	↓		↓	↓	

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
[signature]	12/20/00 1410	[signature]	12-20-00 2:25		

New York State Project: Yes ____ No ✓

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	

31 Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sr, Ti, Tl, V, Zn

32 TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides) 33

34 Other

(White, Yellow, Pink Copy - Laboratory / Goldenrod Copy - Client)

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

Lincoln Applied Geology
163 Revell Drive
Lincoln, VT 05443
Attn: Rick Vandenberg

PROJECT: Village Beverage
ORDER ID: 10538
RECEIVE DATE: December 6, 2000
REPORT DATE: December 15, 2000

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

FCB 12/15

enclosures

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

LABORATORY REPORT

CLIENT: Lincoln Applied Geology
PROJECT: Village Beverage
REPORT DATE: December 15, 2000

ORDER ID: 10538
DATE RECEIVED: December 6, 2000
SAMPLER: JR

Site: Effluent
Ref. Number: 166640 Date Sampled: 12/6/00
Anal. Method: SW 8021B Time Sampled: 2:00 PM
Analyst: 555 Analysis Date: 12/12/00

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 1.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	112.%

Site: Influent Can 1
Ref. Number: 166642 Date Sampled: 12/6/00
Anal. Method: SW 8021B Time Sampled: 2:00 PM
Analyst: 555 Analysis Date: 12/12/00

Parameter	Results ug/L
MTBE	184.
Benzene	2.1
Toluene	< 1.0
Ethylbenzene	1.4
Xylenes, Total	2.5
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	3.
Surrogate 1	108.%

Site: Influent Can 2
Ref. Number: 166641 Date Sampled: 12/6/00
Anal. Method: SW 8021B Time Sampled: 2:00 PM
Analyst: 555 Analysis Date: 12/12/00

Parameter	Results ug/L
MTBE	< 10.0
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 1.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	111.%

ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

41086

Project Name: Village Beverage	Reporting Address: 2AG	Billing Address: SBC
Endyne Order ID: (Lab Use Only) 10538 -O -I -S	Company: 2AG Contact Name/Phone #: Rick Vandenberg	Sampler Name: Jeremy Revell Phone #: 453-4384

Ref # (Lab Use Only)	Sample Identification	Matrix	GRAB	COMP	Date/Time	Sample Containers No.	Sample Containers Type/Size	Field Results/Remarks	Analysis Required	Sample Preservation	Rush
166640	Effluent	H_2O	X		12/6/00 1400	2	VOA		19	HCl	
166641	Influent Can 2	↓	↓		↓ ↓	↓	↓		↓	↓	
166642	Influent Can 1	↓	↓		↓ ↓	↓	↓		↓	↓	

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
[signature]	12/6/00 1445	A Florucci	12-6-00 2:50		

New York State Project: Yes ____ No ✓

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	PP13 Metals
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	RCRA8 Metals
4	Nitrite N	9	BOD	14	Turbidity	19	8021B	24	8260/8260B	29	
5	Nitrate N	10	Alkalinity	15	Conductivity	20	8010/8020	25	8270 B/N or Acid	30	

31	Metals (As Is, Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sr, Ti, Tl, V, Zn	
32	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)	33
34	Other	

(White, Yellow, Pink Copy - Laboratory / Goldenrod Copy - Client)

ENDYNE, INC.

Laboratory Services

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
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LABORATORY REPORT

Lincoln Applied Geology
163 Revell Drive
Lincoln, VT 05443
Attn: Rick Vanderberg

PROJECT: Village Beverage
ORDER ID: 10347
RECEIVE DATE: November 22, 2000
REPORT DATE: December 4, 2000

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures