2009 ANNUAL REPORT

Prepared For:
Jamestown Allenco Facility
65 Dow Street
Falconer, New York
(Former Dowcraft South Dow Street Site)
NYSDEC Site #907020

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1.0 INTRODUCTION

The former Dowcraft Corporation facility in Falconer, New York has been demolished and the property sold to Jamestown Container Corporation. Jamestown Allenco, Inc, (a successor of the Dowcraft Corporation) has retained the responsibility of completing the remedial work at the Site. The remedial work consists of efforts to minimize the impact of trichloroethylene (TCE) which was released on the Site as a result of a degreaser unit. Some of the TCE has degraded into breakdown components including cis-1,2-dichloroethene (cis-DCE) and vinyl chloride. The groundwater beneath the Site has been impacted by the TCE (and the breakdown components) at concentrations that exceed the New York State Department of Environmental Conservation (NYSDEC) criteria.

Interim Remedial Measures were initiated in the 1990s using pump and treat technologies to address the impacted groundwater. These measures were later replaced with an in-situ chemical oxidation remedy that was also initially implemented as an Interim Remedial Measure and subsequently accepted in the March 2003 Record of Decision as the Final Remedial Measure.

In February 2008, a recommendation was made by Conestoga-Rovers & Associates (in the 2007 Annual Report) to switch from potassium permanganate to soy lactate as the injection medium to attempt to eliminate the remaining TCE. The soy lactate creates anaerobic conditions within the groundwater formation, thereby accelerating the rate of TCE degradation. Approval of this approach was provided by the NYSDEC on March 3, 2008.

This document presents the fourth annual report presenting the 2009 results of the operation of the approved Final Remedial Measure as specified in the "Remedial Design/Remedial Action Work Plan and Operation, Maintenance, and Monitoring Work Plan" developed by CRA in November 2005, and as amended.

2.0 SITE BACKGROUND

The former Dowcraft property, now owned by Jamestown Container Corporation, is located at 65 South Dow Street, Falconer, New York. The location of the Site is shown on Figure 2.1. The former Dowcraft property covered approximately 2.2 acres.

The property is bounded to the north and east by the Jamestown Container Corporation property and to the south by property owned by Norfolk Southern Railroad. South Dow Street is directly west of the property. The Site's monitoring program includes the Chadakoin River which borders the Jamestown Container Corporation property on the north. A Site plan is shown on Figure 2.2.

The release of TCE from the former vapor degreaser is the source of the chemicals found in the groundwater beneath the Site. Groundwater is found at a depth of approximately 10 feet below the ground level and flows in a northerly direction and discharges into the Chadakoin River. The soil through which the groundwater flows beneath the Site is primarily a sand and gravel unit that contains some silt.

The Chemicals of Concern that have been identified for the Site are:

Trichloroethylene
Cis-1,2-Dichloroethene
Vinyl Chloride

The remediation goals selected for this Site are:

- Treat the source area of groundwater contamination by oxidation of the contaminants, in place. This goal was modified in 2008 to allow for the use of soy lactate injections to create an anaerobic treatment zone in the groundwater to treat the source area of groundwater contamination.
- Prevent exposure of human receptors to contaminated groundwater in the sand and gravel unit under the Site.
- Prevent or mitigate, to the maximum extent practicable, Chemicals of Concern migration via groundwater so that releases from the underlying sand and gravel unit to the Chadakoin River, do not exceed applicable Standards, Criteria, and Guidance Values.

3.0 2009 OPERATION, MAINTENANCE, AND MONITORING WORK

The work performed for the Site in 2009 consisted of the following:

- In February 2009, the third annual report detailing the site activities that were conducted in 2008 was submitted to the NYSDEC. The activities were performed in accordance with the plan specified in the document entitled "Remedial Design/Remedial Action Work Plan and Operation, Maintenance, and Monitoring Work Plan" – November 2005.
- In June 2009, a third round of groundwater samples (following the soy lactate injections of May 2008) was collected from select wells.
- In December 2009, a fourth round of groundwater samples was collected from select wells.

The following sections of this report provide further information on these activities.

3.1 INJECTIONS

There have been four rounds of potassium permanganate injections at the Site. The injections occurred as follows:

May 2000	5,300 lbs.
November 2000	6,600 lbs.
June 2001	6,600 lbs.
November 2005 – July 2006	3,000 lbs
	21,500 lbs.

Thus, to date, 21,500 pounds of potassium permanganate have been injected into the groundwater at the Site.

In 2008, soy lactate was injected as an alternate method to attempt to eliminate the TCE source in the groundwater. The initial injection of 840 pounds of soy lactate was performed on May 19 through 22, 2008. The soy lactate was diluted at a 10:1 ratio (by weight) with potable water prior to injection. A vitamin B-12 supplement was added into the diluted mixture prior to application. The locations into which the soy lactate was injected are as follows:

- PW-2 170 pounds

- PW-3R 590 pounds
- ESI-2 42 pounds
- ESI-6 42 pounds

The solution was injected into wells ESI-2, ESI-6, and PW-2 using a small submersible pump at rates of approximately 5 gallons per minute. Well PW-3R would only accept the solution at 0.5 gallons per minute so a sanitary well seal cap was installed and gravity was used to inject the solution into this well.

All mixing was done in a new polyethylene tank. After injecting the last batch of soy lactate, approximately 50 to 70 gallons of potable water was used to clean out the tanks and hoses. This water was added to PW-3R. Approximately 25 gallons of clean chase water was added to the remaining three wells after the soy lactate injections to push the soy lactate solution into the groundwater and to flush the well casings.

3.2 GROUNDWATER CHEMICAL MONITORING

Two rounds of groundwater samples were collected during this reporting period. Each sampling round included the collection of samples from 11 groundwater monitoring wells and a surface water sample from the Chadakoin River. The two rounds of sampling in 2009 occurred in the months of June and December. The results from these two sampling rounds are to be used in comparison to the previous two rounds collected in 2008 and to provide information on:

- The progress of the remedial efforts
- Whether there is a need for any additional injections of materials to promote elimination of the TCE source

Each water sample collected was analyzed for the complete set of Volatile Organic Compounds using USEPA method number 8260B at the H2M Laboratories in Melville, New York (a NYSDOH approved facility). The analytical data from each set of samples were validated as per the Quality Assurance Project Plan. The validation reports are presented in Appendix A and a summary of the analytical data is presented in Table 1 for the June 2009 round and in Table 2 for the December 2009 round. The validation reports show that the data collected were acceptable for their intended purpose.

In addition to the analyses performed in the laboratory, measurements of certain water quality parameters were taken in the field at the time the samples were collected. These

parameters included pH, specific conductance, temperature, turbidity, dissolved oxygen, oxidation reduction potential, total iron, and ferrous iron. The results of these field measurements are presented in Table 3.

The data from both rounds of samples collected in 2009 show that there has been sustained improvement in the water quality. There is also clear evidence of the effectiveness of the soy lactate injections as is demonstrated based on the increase in the concentrations of TCE breakdown components in a number of the wells.

The most significant decreases in TCE concentrations occurred in the central core area where the chemical source has historically resided. This central core area encompasses the area in the vicinity of wells PW-2 and PW-3R. Figures 3.1, 3.2, and 3.3 provide an areal depiction of the concentrations of the three main Chemicals of Concern; TCE, cis-DCE, and vinyl chloride. Concentrations from the 2005 through 2009 sampling rounds have been included on these figures to provide comparative results.

For TCE, the significant reductions (by an order of magnitude) in the concentrations noted at wells PW-2 and ESI-2 in the 2008 sample results, remained low in 2009. At PW-3R, the June 2009 TCE result was down to non detect levels but then rebounded to 20,000 ppb in December which is still well below the 2007 concentrations. The TCE concentrations in ESI-10 and ESI-11 dropped to single digit ppb levels in 2009 and the concentrations in wells ESI-1, ESI-7, and ESI-13R also dropped, although these three wells already exhibited low TCE concentrations in 2008.

While TCE concentrations in the central core area decreased following the soy lactate injections, the concentrations of cis-DCE increased in a few wells (PW-1, ESI-2, ESI-11, and ESI-12). A significant increase in cis-DCE occurred in PW-3R where the concentration reached 56,000 ppb in the December 2009 sample. This significant increase is a clear indication of the increased degradation of TCE to its breakdown components and is the expected and desired result as anaerobic treatment continues.

Similar to the cis-DCE concentration swings, the concentrations of vinyl chloride, another TCE degradation compound, were also expected to increase. This is most prominently observed at wells PW-3R, ESI-2, and ESI-11, thus confirming that biodegradation of TCE to its degradation products under anaerobic conditions is readily and rapidly occurring.

The concentrations of all parameters remained at non-detect in the river samples, as expected. The one minor exception to this was the estimated presence of cis-DCE at 1 ppb in the June 2009 sample. As discussed at the October 14, 2005 meeting with the

NYSDEC, the chemical loading associated with the groundwater discharge into the Chadakoin River is on the order of 0.1 pounds per year. Given the dilution that occurs in the Chadakoin River due to the average flow of 361 cubic feet/second, the concentration of any chemical discharge from the groundwater entering the Chadakoin River will be less than 1 ppt. Adding to this the short half-life of these volatile compounds in flowing surface water and it is obvious that the concentrations quickly approach zero. Consequently, there has never been nor will there ever be an adverse impact as a result of the discharge of Site chemicals into the Chadakoin River.

The 2009 results demonstrate that degradation of the TCE is continuing to occur and is occurring at a significant rate. Thus, enhanced anaerobic biodegradation through the use of soy lactate injections is a significant and valuable part of the remedy of the Site groundwater. The effects of the first set of soy lactate injections are continuing to result in improved groundwater conditions.

3.3 GROUNDWATER HYDRAULIC MONITORING

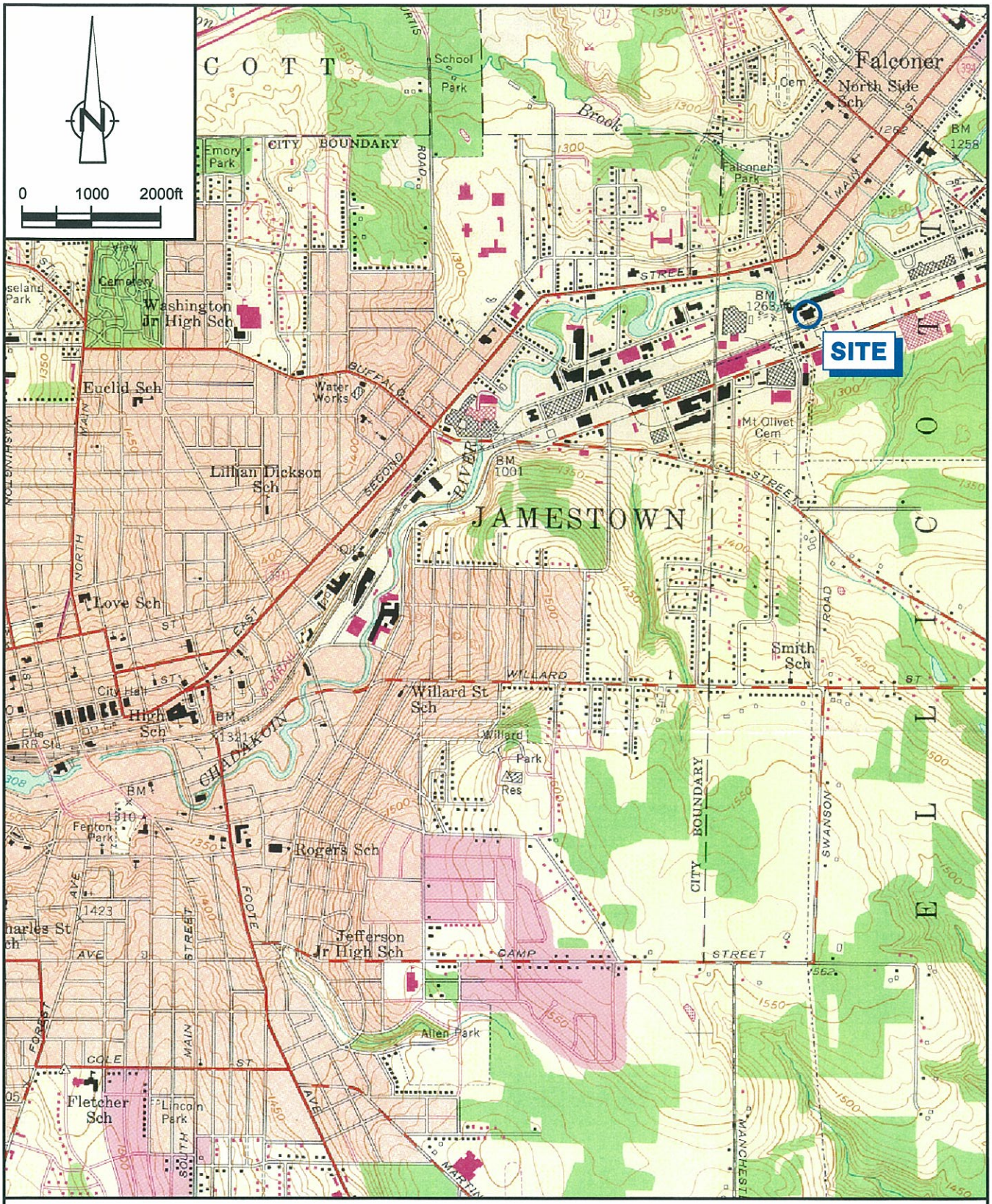
In conjunction with each sampling round, a complete set of groundwater elevations were taken from all available wells. The groundwater elevation information from these sampling events is presented in Table 4 and illustrated in Figure 3.4. The groundwater elevation data show that the gradient is still to the north toward the Chadakoin River. This flow pattern is consistent with all previous rounds of groundwater level measurements.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the sampling performed during this reporting period, the following conclusions have been formulated:

- The sampling of the Chadakoin River continues to demonstrate that there is no impact of the Site groundwater conditions on the surface water quality in the River.
- The groundwater flow configuration beneath the Site is stable and remains consistent with historically identified trends. The groundwater flow is to the north and discharges into the Chadakoin River.
- The injections of potassium permanganate have successfully degraded a considerable amount of TCE to its breakdown compounds and beyond, particularly in the immediate vicinity of the former TCE degreaser unit.
- The 2008 injection of soy lactate has resulted in a significant reduction in the concentrations of TCE in the central core area. As expected the reduction in TCE concentrations is matched with increases in the concentrations of TCE degradation products (cis-DCE and vinyl chloride). These data demonstrate that the soy lactate injections have created an anaerobic treatment zone that is effectively remediating the groundwater plume. The effects of the 2008 injections (in terms of continuing active degradation) have been ongoing through 2009.
- TCE concentrations that exceed 1,000 ppb are now only present at one well (PW-3R) and even in that well, one of the two sampling rounds performed in 2009 showed that the TCE concentration had been reduced to non-detect levels for a period of time.
- The fact that TCE concentrations in most wells are continuing to decline shows that the beneficial effects of the first soy lactate injection are still evolving.

Based upon these conclusions, it is recommended that another sample round be collected in the last quarter of 2010 and be evaluated before any additional remedial actions are performed. If any additional remedial actions are to be performed, it is recommended that they consist of soy lactate injections.



SOURCE:

USGS JAMESTOWN, NEW YORK
QUADRANGLE, PHOTOREVISED 1979.

figure 2.1

SITE LOCATION MAP
FORMER DOWCRAFT CORPORATION
Falconer, New York

05020-00(015)GN-WA001 JAN 20/2010

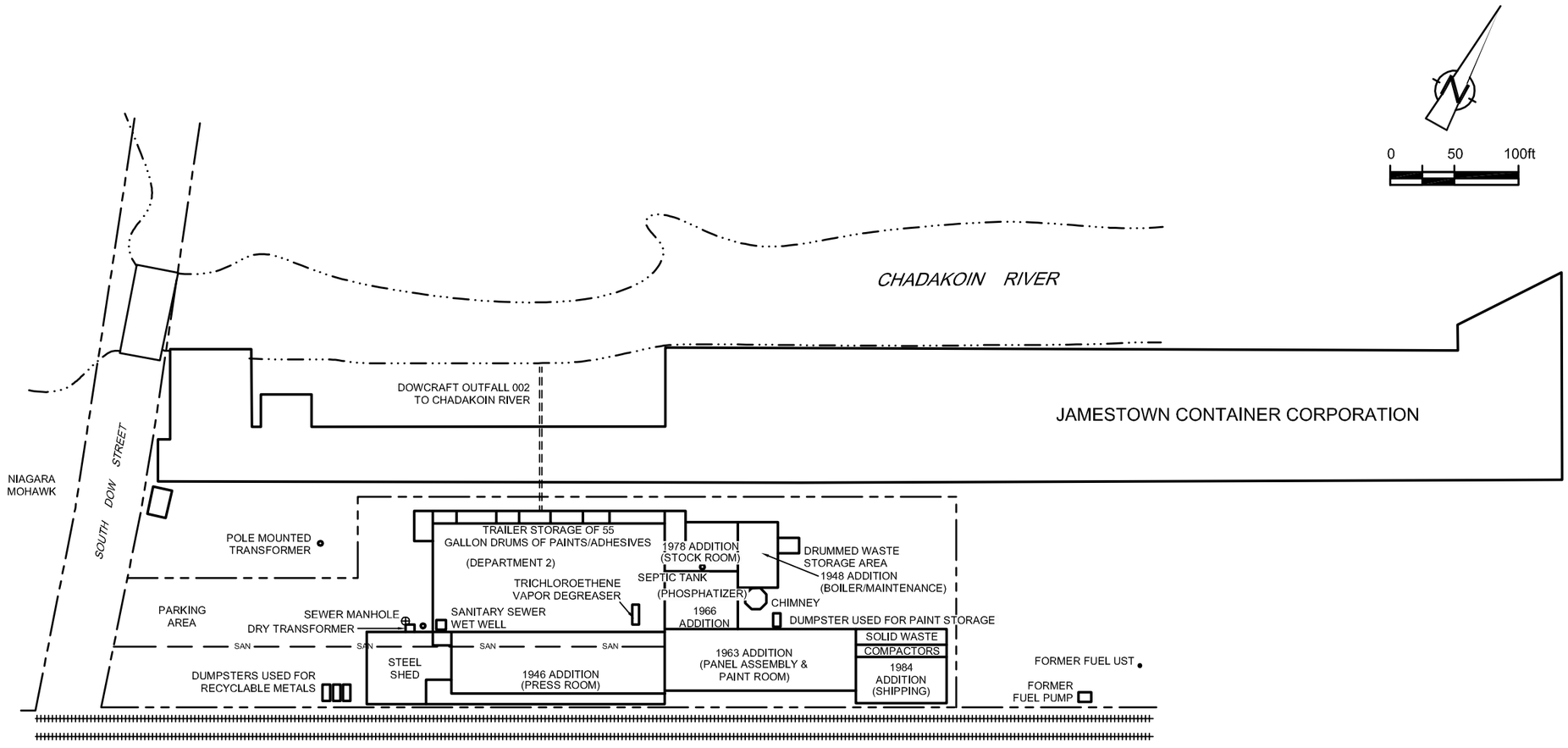
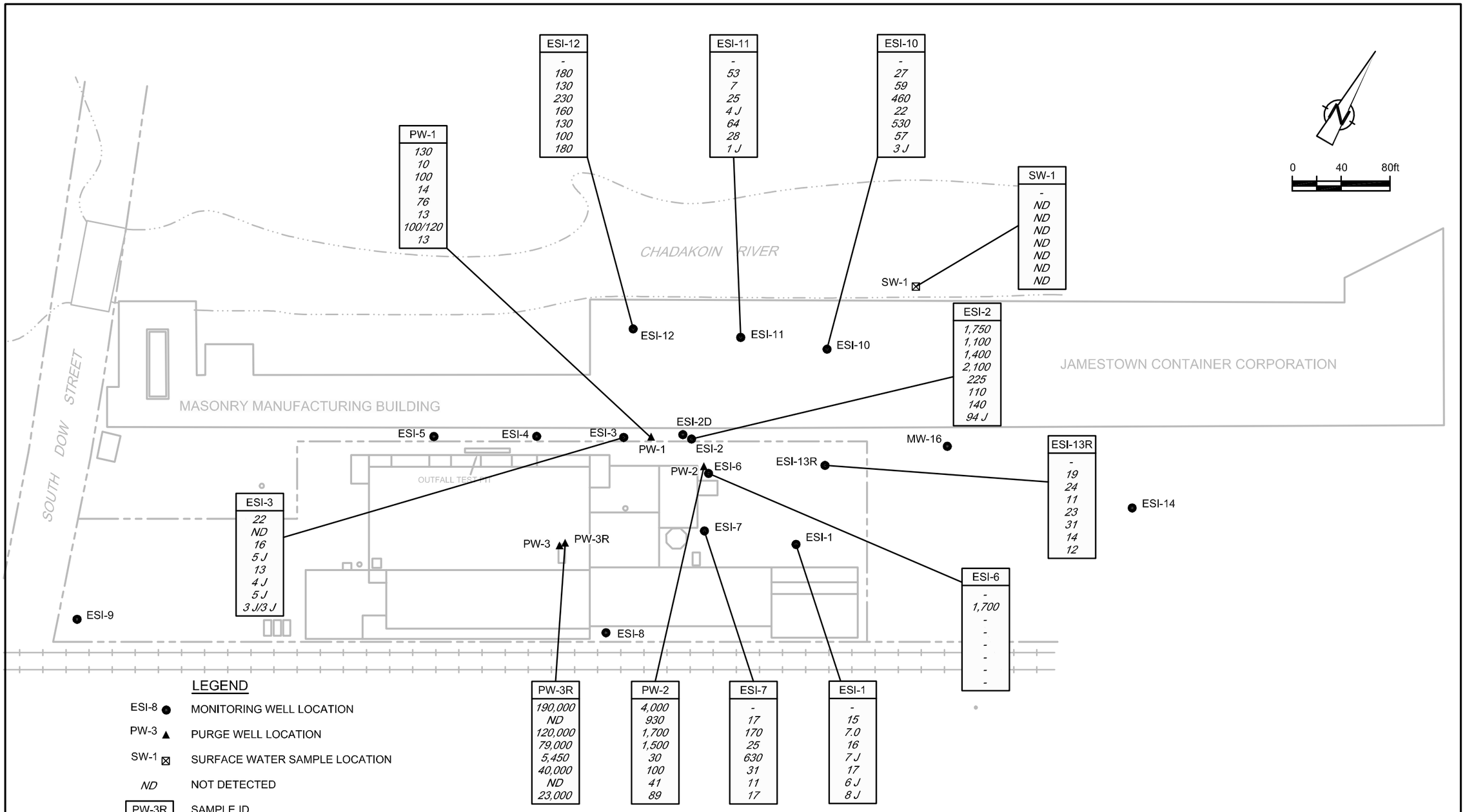


figure 2.2

SITE PLAN AND HISTORIC OPERATIONS
FORMER DOWCRAFT CORPORATION
Falconer, New York



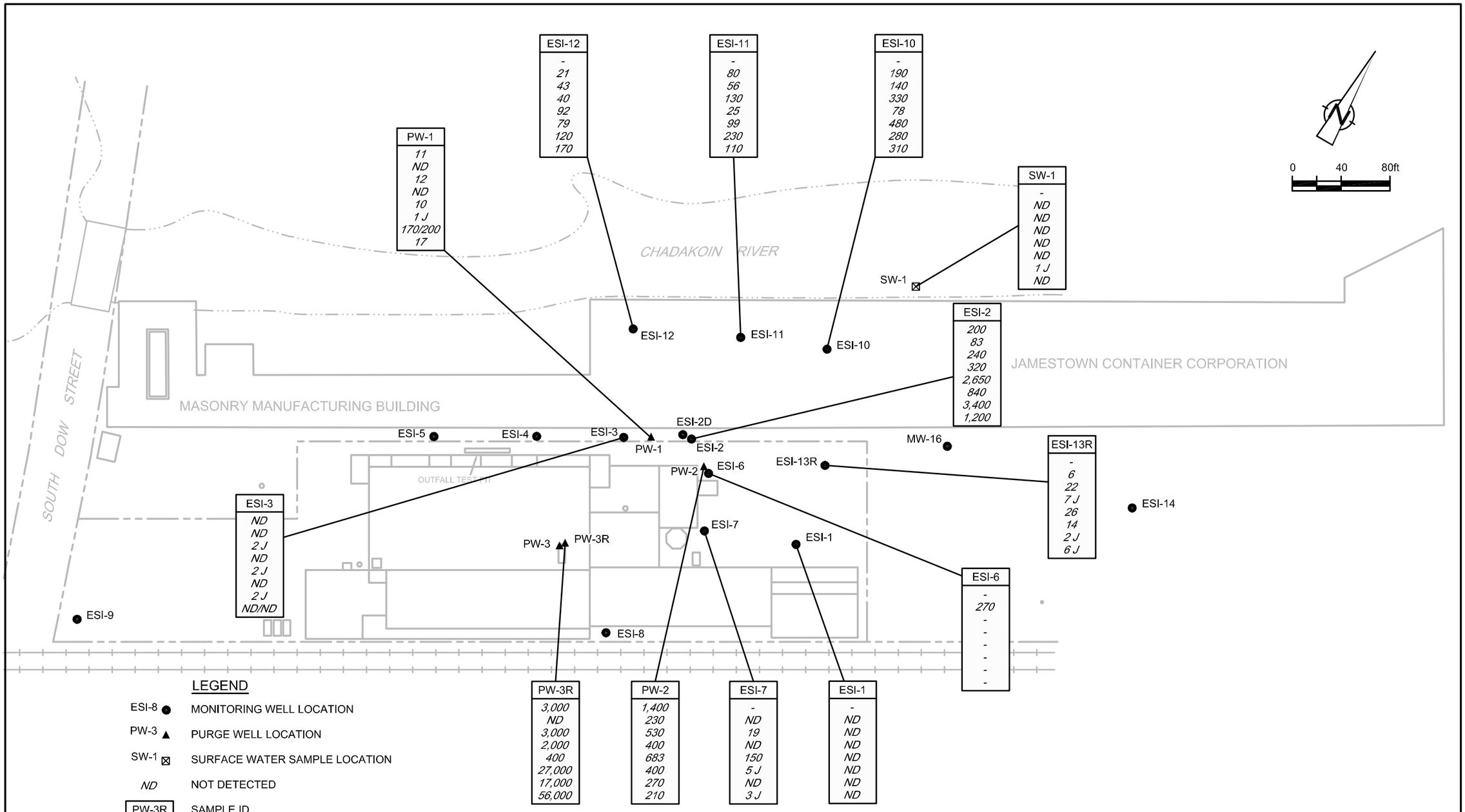
LEGEND

ESI-8 ●	MONITORING WELL LOCATION
PW-3 ▲	PURGE WELL LOCATION
SW-1 ⊠	SURFACE WATER SAMPLE LOCATION
ND	NOT DETECTED

PW-3R	SAMPLE ID
190,000	CONCENTRATION (ug/L), OCTOBER 2005
ND	CONCENTRATION (ug/L), NOVEMBER 2006
120,000	CONCENTRATION (ug/L), SEPTEMBER 2007
79,000	CONCENTRATION (ug/L), DECEMBER 2007
5,450	CONCENTRATION (ug/L), SEPTEMBER 2008
40,000	CONCENTRATION (ug/L), DECEMBER 2008
ND	CONCENTRATION (ug/L), JUNE 2009
23,000	CONCENTRATION (ug/L), DECEMBER 2009

figure 3.1

TRICHLOROETHYLENE CONCENTRATIONS
FORMER DOWCRAFT CORPORATION
Falconer, New York



LEGEND

ESI-8 ●	MONITORING WELL LOCATION
PW-3 ▲	PURGE WELL LOCATION
SW-1 ⊠	SURFACE WATER SAMPLE LOCATION
ND	NOT DETECTED
PW-3R	SAMPLE ID
3,000	CONCENTRATION (ug/L), OCTOBER 2005
ND	CONCENTRATION (ug/L), NOVEMBER 2006
3,000	CONCENTRATION (ug/L), SEPTEMBER 2007
2,000	CONCENTRATION (ug/L), DECEMBER 2007
400	CONCENTRATION (ug/L), SEPTEMBER 2008
27,000	CONCENTRATION (ug/L), DECEMBER 2008
17,000	CONCENTRATION (ug/L), JUNE 2009
56,000	CONCENTRATION (ug/L), DECEMBER 2009

figure 3.2

cis-1,2-DICHLOROETHENE CONCENTRATIONS
FORMER DOWCRAFT CORPORATION
Falconer, New York

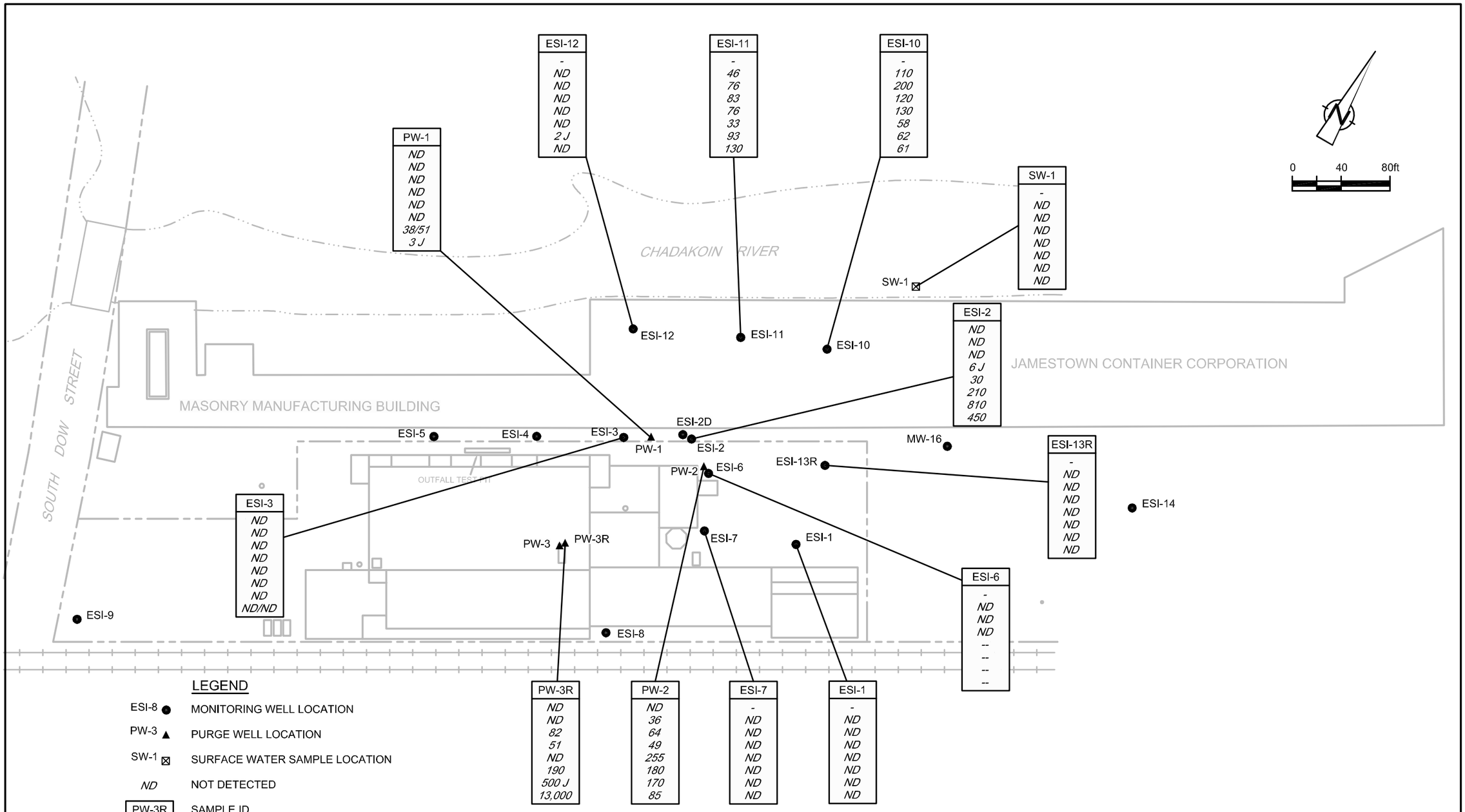
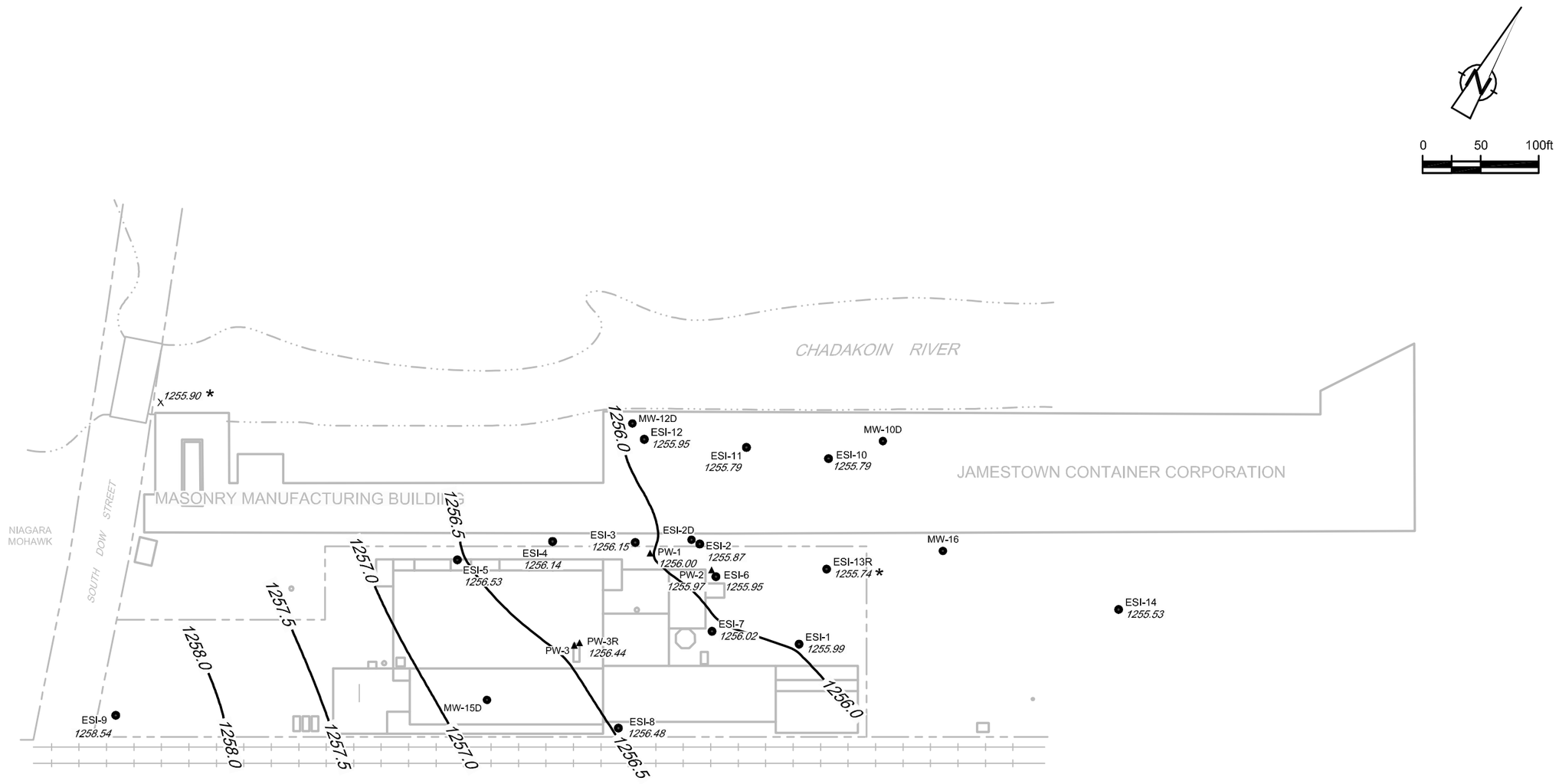


figure 3.3

VINYL CHLORIDE CONCENTRATIONS
FORMER DOWCRAFT CORPORATION
Falconer, New York

05020-00(015)GN-WA005 JAN 20/2010



LEGEND

ESI-8 ●	MONITORING WELL
PW-3 ▲	PURGE WELL
1255.99	WATER LEVEL ELEVATION (ft AMSL) DECEMBER 2009
1257.0 ——	POTENTIOMETRIC SURFACE CONTOUR DECEMBER 2009
*	NOT USED TO GENERATE CONTOURS

figure 3.4

GROUNDWATER ELEVATION 2009
DOWCRAFT CORPORATION
Falconer, New York

TABLE 1

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
JUNE 2009

	Sample Location:	ESI-1	ESI-2	ESI-3	ESI-7	ESI-10
	Sample Id:	WG-5020-060809-SG-001	WG-5020-060809-SG-007	WG-5020-060809-SG-008	WG-5020-060809-SG-003	WG-5020-060809-SG-005
	Sample Date:	*6/8/2009*	*6/8/2009*	*6/8/2009*	*6/8/2009*	*6/8/2009*
Parameters	***Units***					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	µg/L	10 U	4 J	10 U	10 U	10 U
1,2,4-Trichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	µg/L	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	µg/L	10 U	10 U	10 U	10 U	10 U
Bromoform	µg/L	10 U	10 U	10 U	10 U	10 U
Bromomethane (Methyl Bromide)	µg/L	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	µg/L	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	µg/L	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Chloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	µg/L	10 U	10 U	10 U	10 U	10 U
Chloromethane (Methyl Chloride)	µg/L	10 U	10 U	10 U	10 U	10 U
cis-1,2-Dichloroethene	µg/L	10 U	3400	2 J	10 U	280
cis-1,3-Dichloropropene	µg/L	10 U	10 U	10 U	10 U	10 U
Cyclohexane	µg/L	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	µg/L	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane (CFC-12)	µg/L	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Isopropylbenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl Tert Butyl Ether	µg/L	10 U	10 U	10 U	10 U	10 U

TABLE 1

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
JUNE 2009

	Sample Location:	ESI-1	ESI-2	ESI-3	ESI-7	ESI-10
	Sample Id:	WG-5020-060809-SG-001	WG-5020-060809-SG-007	WG-5020-060809-SG-008	WG-5020-060809-SG-003	WG-5020-060809-SG-005
	Sample Date:	***6/8/2009***	***6/8/2009***	***6/8/2009***	***6/8/2009***	***6/8/2009***
Parameters	***Units***					
Methylene chloride	µg/L	10 U	10 U	10 U	10 U	10 U
Styrene	µg/L	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	µg/L	10 U	10 U	10 U	10 U	10 U
Toluene	µg/L	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	µg/L	10 U	15	10 U	10 U	1 J
trans-1,3-Dichloropropene	µg/L	10 U	10 U	10 U	10 U	10 U
Trichloroethene	µg/L	6 J	140	5 J	11	57
Trichlorofluoromethane (CFC-11)	µg/L	10 U	10 U	10 U	10 U	10 U
Trifluorotrichloroethane (Freon 113)	µg/L	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	µg/L	10 U	810	10 U	10 U	62
Xylene (total)	µg/L	10 U	10 U	10 U	10 U	10 U

Notes:

J - Estimated.
U - Non-detected at associated value.

TABLE 1

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
JUNE 2009

	Sample Location:	ESI-11	ESI-12	ESI-13R	PW-1	PW-1
	Sample Id:	WG-5020-060809-SG-006	WG-5020-060809-SG-004	WG-5020-060809-SG-002	WG-5020-060809-SG-009	WG-5020-060809-SG-010
	Sample Date:	*6/8/2009*	*6/8/2009*	*6/8/2009*	*6/8/2009*	*6/8/2009 (Duplicate)*
Parameters	*Units*					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	µg/L	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	µg/L	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	µg/L	10 U	10 U	10 U	10 U	10 U
Bromoform	µg/L	10 U	10 U	10 U	10 U	10 U
Bromomethane (Methyl Bromide)	µg/L	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	µg/L	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	µg/L	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Chloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	µg/L	10 U	10 U	10 U	10 U	10 U
Chloromethane (Methyl Chloride)	µg/L	10 U	10 U	10 U	10 U	10 U
cis-1,2-Dichloroethene	µg/L	230	120	2 J	170	200
cis-1,3-Dichloropropene	µg/L	10 U	10 U	10 U	10 U	10 U
Cyclohexane	µg/L	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	µg/L	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane (CFC-12)	µg/L	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Isopropylbenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl Tert Butyl Ether	µg/L	10 U	10 U	10 U	10 U	10 U

TABLE 1

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
JUNE 2009

	Sample Location:	ESI-11	ESI-12	ESI-13R	PW-1	PW-1
	Sample Id:	WG-5020-060809-SG-006	WG-5020-060809-SG-004	WG-5020-060809-SG-002	WG-5020-060809-SG-009	WG-5020-060809-SG-010
	Sample Date:	***6/8/2009***	***6/8/2009***	***6/8/2009***	***6/8/2009***	***6/8/2009 (Duplicate)***
Parameters	***Units***					
Methylene chloride	µg/L	10 U	10 U	10 U	10 U	10 U
Styrene	µg/L	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	µg/L	10 U	10 U	10 U	10 U	10 U
Toluene	µg/L	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	µg/L	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	µg/L	10 U	10 U	10 U	10 U	10 U
Trichloroethene	µg/L	28	100	14	100	120
Trichlorofluoromethane (CFC-11)	µg/L	10 U	10 U	10 U	10 U	10 U
Trifluorotrichloroethane (Freon 113)	µg/L	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	µg/L	93	2 J	10 U	38	51
Xylene (total)	µg/L	10 U	10 U	10 U	10 U	10 U

Notes:

J - Estimated.
U - Non-detected at associated value.

TABLE 1

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
JUNE 2009

	Sample Location:	PW-2	PW-3R	CREEK
	Sample Id:	WG-5020-060809-SG-011	WG-5020-060809-SG-013	WG-5020-060809-SG-012
	Sample Date:	*6/8/2009*	*6/8/2009*	*6/8/2009*
Parameters	*Units*			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/L	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	µg/L	10 U	10 U	10 U
1,1,2-Trichloroethane	µg/L	10 U	10 U	10 U
1,1-Dichloroethane	µg/L	10 U	1 J	10 U
1,1-Dichloroethene	µg/L	10 U	22	10 U
1,2,4-Trichlorobenzene	µg/L	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	10 U	10 U	10 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	10 U	10 U	10 U
1,2-Dichlorobenzene	µg/L	10 U	10 U	10 U
1,2-Dichloroethane	µg/L	10 U	10 U	10 U
1,2-Dichloropropane	µg/L	10 U	10 U	10 U
1,3-Dichlorobenzene	µg/L	10 U	10 U	10 U
1,4-Dichlorobenzene	µg/L	10 U	10 U	10 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	33	10 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	10 U	10 U	10 U
Acetone	µg/L	10 U	37 U	10 U
Benzene	µg/L	10 U	1 J	10 U
Bromodichloromethane	µg/L	10 U	10 U	10 U
Bromoform	µg/L	10 U	10 U	10 U
Bromomethane (Methyl Bromide)	µg/L	10 U	10 U	10 U
Carbon disulfide	µg/L	10 U	1 J	10 U
Carbon tetrachloride	µg/L	10 U	10 U	10 U
Chlorobenzene	µg/L	10 U	10 U	10 U
Chloroethane	µg/L	2 J	10 U	10 U
Chloroform (Trichloromethane)	µg/L	10 U	10 U	10 U
Chloromethane (Methyl Chloride)	µg/L	10 U	10 U	10 U
cis-1,2-Dichloroethene	µg/L	270	17000	1 J
cis-1,3-Dichloropropene	µg/L	10 U	10 U	10 U
Cyclohexane	µg/L	10 U	10 U	10 U
Dibromochloromethane	µg/L	10 U	10 U	10 U
Dichlorodifluoromethane (CFC-12)	µg/L	10 U	10 U	10 U
Ethylbenzene	µg/L	10 U	10 U	10 U
Isopropylbenzene	µg/L	10 U	10 U	10 U
Methyl acetate	µg/L	10 U	10 U	10 U
Methyl cyclohexane	µg/L	10 U	10 U	10 U
Methyl Tert Butyl Ether	µg/L	10 U	10 U	10 U

TABLE 1

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
JUNE 2009

	Sample Location:	PW-2	PW-3R	CREEK
	Sample Id:	WG-5020-060809-SG-011	WG-5020-060809-SG-013	WG-5020-060809-SG-012
	Sample Date:	***6/8/2009***	***6/8/2009***	***6/8/2009***
Parameters	***Units***			
Methylene chloride	µg/L	10 U	10 U	10 U
Styrene	µg/L	10 U	10 U	10 U
Tetrachloroethene	µg/L	10 U	10 U	10 U
Toluene	µg/L	10 U	10 U	10 U
trans-1,2-Dichloroethene	µg/L	4 J	95	10 U
trans-1,3-Dichloropropene	µg/L	10 U	10 U	10 U
Trichloroethene	µg/L	41	10 U	10 U
Trichlorofluoromethane (CFC-11)	µg/L	10 U	10 U	10 U
Trifluorotrichloroethane (Freon 113)	µg/L	10 U	10 U	10 U
Vinyl chloride	µg/L	170	500 J	10 U
Xylene (total)	µg/L	10 U	10 U	10 U

Notes:

J - Estimated.
U - Non-detected at associated value.

TABLE 2

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
DECEMBER 2009

	Sample Location:	*ESI-1*	*ESI-10*	*ESI-11*	*ESI-12*	*ESI-13R*
	Sample Id:	*WG-5020-120809-SG-001*	*WG-5020-120809-SG-005*	*WG-5020-120809-SG-006*	*WG-5020-120809-004*	*WG-5020-120809-003*
	Sample Date:	*12/8/2009*	*12/8/2009*	*12/8/2009*	*12/8/2009*	*12/8/2009*
Parameters	*Units*					
Volatiles						
1,1,1-Trichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	µg/L	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	µg/L	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	µg/L	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	µg/L	10 U	10 U	10 U	10 U	10 U
Bromoform	µg/L	10 U	10 U	10 U	10 U	10 U
Bromomethane (Methyl Bromide)	µg/L	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	µg/L	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	µg/L	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Chloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	µg/L	10 U	10 U	10 U	10 U	10 U
Chloromethane (Methyl Chloride)	µg/L	10 U	2 J	2 J	10 U	10 U
cis-1,2-Dichloroethene	µg/L	10 U	310	110	170	6 J
cis-1,3-Dichloropropene	µg/L	10 U	10 U	10 U	10 U	10 U
Cyclohexane	µg/L	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	µg/L	10 U	10 U	10 U	10 U	10 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
DECEMBER 2009

	Sample Location:	*ESI-1*	*ESI-10*	*ESI-11*	*ESI-12*	*ESI-13R*
	Sample Id:	*WG-5020-120809-SG-001*	*WG-5020-120809-SG-005*	*WG-5020-120809-SG-006*	*WG-5020-120809-004*	*WG-5020-120809-003*
	Sample Date:	*12/8/2009*	*12/8/2009*	*12/8/2009*	*12/8/2009*	*12/8/2009*
Parameters	*Units*					
Volatiles (Cont'd.)						
Dichlorodifluoromethane (CFC-12)	µg/L	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Isopropylbenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl Tert Butyl Ether	µg/L	10 U	10 U	10 U	10 U	10 U
Methylene chloride	µg/L	10 U	10 U	10 U	10 U	10 U
Styrene	µg/L	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	µg/L	10 U	10 U	10 U	10 U	10 U
Toluene	µg/L	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	µg/L	10 U	2 J	10 U	10 U	10 U
trans-1,3-Dichloropropene	µg/L	10 U	10 U	10 U	10 U	10 U
Trichloroethene	µg/L	8 J	3 J	1 J	180	12
Trichlorofluoromethane (CFC-11)	µg/L	10 U	10 U	10 U	10 U	10 U
Trifluorotrichloroethane (Freon 113)	µg/L	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	µg/L	10 U	61	130	10 U	10 U
Xylene (total)	µg/L	10 U	10 U	10 U	10 U	10 U

Notes:

J - Estimated.
U - Non-Detected at associated value.

TABLE 2

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
DECEMBER 2009

Parameters	*Units*	*Sample Location:* *ESI-7* *Sample Id:* *WG-5020-120809-SG-002* *Sample Date:* *12/8/2009*	*Sample Location:* *ESI-2* *Sample Id:* *WG-5020-120809-SG-011* *Sample Date:* *12/8/2009*	*Sample Location:* *ESI-3* *Sample Id:* *WG-5020-120809-007* *Sample Date:* *12/8/2009*	*Sample Location:* *ESI-3* *Sample Id:* *WG-5020-120809-008* *Sample Date:* *12/8/2009* *(Duplicate)*	*Sample Location:* *PW-1* *Sample Id:* *WG-5020-120809-SG-012* *Sample Date:* *12/8/2009*
Volatiles						
1,1,1-Trichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	µg/L	10 U	2 J	10 U	10 U	10 U
1,2,4-Trichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	µg/L	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	µg/L	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	µg/L	10 U	10 U	10 U	10 U	10 U
Bromoform	µg/L	10 U	10 U	10 U	10 U	10 U
Bromomethane (Methyl Bromide)	µg/L	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	µg/L	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	µg/L	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Chloroethane	µg/L	10 U	3 J	10 U	10 U	10 U
Chloroform (Trichloromethane)	µg/L	10 U	10 U	10 U	10 U	10 U
Chloromethane (Methyl Chloride)	µg/L	10 U	10 U	10 U	2 J	2 J
cis-1,2-Dichloroethene	µg/L	3 J	1200	10 U	10 U	17
cis-1,3-Dichloropropene	µg/L	10 U	10 U	10 U	10 U	10 U
Cyclohexane	µg/L	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	µg/L	10 U	10 U	10 U	10 U	10 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
DECEMBER 2009

	Sample Location:	*ESI-7*	*ESI-2*	*ESI-3*	*ESI-3*	*PW-1*
	Sample Id:	*WG-5020-120809-SG-002*	*WG-5020-120809-SG-011*	*WG-5020-120809-007*	*WG-5020-120809-008*	*WG-5020-120809-SG-012*
	Sample Date:	*12/8/2009*	*12/8/2009*	*12/8/2009*	*12/8/2009 (Duplicate)*	*12/8/2009*
Parameters	*Units*					
Volatiles (Cont'd.)						
Dichlorodifluoromethane (CFC-12)	µg/L	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Isopropylbenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl Tert Butyl Ether	µg/L	10 U	10 U	10 U	10 U	10 U
Methylene chloride	µg/L	10 U	10 U	10 U	10 U	10 U
Styrene	µg/L	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	µg/L	10 U	10 U	10 U	10 U	10 U
Toluene	µg/L	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	µg/L	10 U	8 J	10 U	10 U	10 U
trans-1,3-Dichloropropene	µg/L	10 U	10 U	10 U	10 U	10 U
Trichloroethene	µg/L	17	94 J	3 J	3 J	13
Trichlorofluoromethane (CFC-11)	µg/L	10 U	10 U	10 U	10 U	10 U
Trifluorotrichloroethane (Freon 113)	µg/L	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	µg/L	10 U	450	10 U	10 U	3 J
Xylene (total)	µg/L	10 U	10 U	10 U	10 U	10 U

Notes:

J - Estimated.
U - Non-Detected at associated value.

TABLE 2

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
DECEMBER 2009

	Sample Location:	*PW-2*	*PW-3R*	*River*
	Sample Id:	*WG-5020-120809-SG-013*	*WG-5020-120809-SG-009*	*WG-5020-120809-SG-010*
	Sample Date:	*12/8/2009*	*12/8/2009*	*12/8/2009*
Parameters	*Units*			
Volatiles				
1,1,1-Trichloroethane	µg/L	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	µg/L	10 U	10 U	10 U
1,1,2-Trichloroethane	µg/L	10 U	10 U	10 U
1,1-Dichloroethane	µg/L	10 U	11	10 U
1,1-Dichloroethene	µg/L	10 U	150	10 U
1,2,4-Trichlorobenzene	µg/L	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	10 U	10 U	10 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	10 U	10 U	10 U
1,2-Dichlorobenzene	µg/L	10 U	10 U	10 U
1,2-Dichloroethane	µg/L	10 U	10 U	10 U
1,2-Dichloropropane	µg/L	10 U	10 U	10 U
1,3-Dichlorobenzene	µg/L	10 U	10 U	10 U
1,4-Dichlorobenzene	µg/L	10 U	10 U	10 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	53	10 U
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	µg/L	10 U	3 J	10 U
Acetone	µg/L	10 U	140	10 U
Benzene	µg/L	10 U	2 J	10 U
Bromodichloromethane	µg/L	10 U	10 U	10 U
Bromoform	µg/L	10 U	10 U	10 U
Bromomethane (Methyl Bromide)	µg/L	10 U	10 U	10 U
Carbon disulfide	µg/L	10 U	3 J	10 U
Carbon tetrachloride	µg/L	10 U	10 U	10 U
Chlorobenzene	µg/L	10 U	10 U	10 U
Chloroethane	µg/L	2 J	10 U	10 U
Chloroform (Trichloromethane)	µg/L	10 U	2 J	10 U
Chloromethane (Methyl Chloride)	µg/L	2 J	2 J	10 U
cis-1,2-Dichloroethene	µg/L	210	56000	10 U
cis-1,3-Dichloropropene	µg/L	10 U	10 U	10 U
Cyclohexane	µg/L	10 U	10 U	10 U
Dibromochloromethane	µg/L	10 U	10 U	10 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
DECEMBER 2009

	Sample Location:	*PW-2*	*PW-3R*	*River*
	Sample Id:	*WG-5020-120809-SG-013*	*WG-5020-120809-SG-009*	*WG-5020-120809-SG-010*
	Sample Date:	*12/8/2009*	*12/8/2009*	*12/8/2009*
Parameters	*Units*			
Volatiles (Cont'd.)				
Dichlorodifluoromethane (CFC-12)	µg/L	10 U	10 U	10 U
Ethylbenzene	µg/L	10 U	10 U	10 U
Isopropylbenzene	µg/L	10 U	10 U	10 U
Methyl acetate	µg/L	10 U	2 J	10 U
Methyl cyclohexane	µg/L	10 U	10 U	10 U
Methyl Tert Butyl Ether	µg/L	10 U	10 U	10 U
Methylene chloride	µg/L	10 U	4 J	10 U
Styrene	µg/L	10 U	10 U	10 U
Tetrachloroethene	µg/L	10 U	12	10 U
Toluene	µg/L	10 U	9 J	10 U
trans-1,2-Dichloroethene	µg/L	3 J	4000 U	10 U
trans-1,3-Dichloropropene	µg/L	10 U	10 U	10 U
Trichloroethene	µg/L	89	23000	10 U
Trichlorofluoromethane (CFC-11)	µg/L	10 U	10 U	10 U
Trifluorotrichloroethane (Freon 113)	µg/L	10 U	10 U	10 U
Vinyl chloride	µg/L	85	13000	10 U
Xylene (total)	µg/L	10 U	10 U	10 U

Notes:

J - Estimated.
U - Non-Detected at associated value.

TABLE 3

FIELD PARAMETER SUMMARY 2009
FORMER DOWCRAFT SITE
JAMESTOWN, NEW YORK

Well ID	Date	Gallons	pH (s.u.)	Specific Conductance (mS/cm)	Temp. (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Total Iron (mg/L)	Ferrous Iron (mg/L)	Comments
ESI-1	06/08/09	0-1 gal	Pre-purge to clear sediment									cloudy, brown
Volume = 0.72 gal		0.72	6.92	2.390	NM	270	10.25		NM			cloudy, brown
		1.44	7.44	2.280	NM	46	7.85		NM			
Purge: peristaltic pump		2.16	7.62	2.250	NM	16	7.76		NM			
existing tubing		2.88	7.43	2.100	14.1	35	5.26		67			clear, colorless
Sample: existing bailer			Samples collected		6/8/09					0.1	0.02	clear, colorless
ESI-2	06/08/09	0- 1/2 gal	Pre-purge to clear sediment									cloudy, black
Volume=0.65		0.65	7.36	1.256	13.0	99	3.93		-152			cloudy, gray
		1.30	7.38	1.219	12.0	36.5	3.65		-146		clear, colorless	
Purge: peristaltic pump		1.95	7.40	1.208	12.1	25	3.84		-145			clear, colorless
existing tubing												
Sample: existing bailer		06/08/09	Samples collected							7.45	1.76	clear, colorless
ESI-3	06/08/09	0-1/2 gal	Pre-purge to clear sediment									cloudy, brown
Volume=0.56		0.56	7.78	1.262	13.6	452	4.99		39			cloudy, brown
		1.12	7.69	1.249	12.4	312	5.13		42			cloudy, brown
Purge: peristaltic pump		1.68	7.73	1.245	12.6	114	5.08		44			sl. cloudy, lt. Brown
existing tubing												
Sample: existing bailer			Samples collected					6/8/2009		1.37	0.22	sl. cloudy, lt. Brown
ESI-7	06/08/09	0.59	7.51	1.850	15.0	255	8.52		58			cloudy, brown
Volume=0.59		1.18	7.38	1.810	14.1	144	7.82		57			cloudy, brown
Purge: peristaltic pump		1.77	7.32	1.800	13.6	74	7.59		62			cloudy, brown
Sample: existing bailer		2.36	7.23	1.810	13.8	39	6.5		49			sl. Cloudy, lt brown
		2.95	7.19	1.82	13.6	21	6.48		55		clear, colorless	
			Samples collected					6/8/2009		0	0	clear, colorless

TABLE 3

FIELD PARAMETER SUMMARY 2009
FORMER DOWCRAFT SITE
JAMESTOWN, NEW YORK

Well ID	Date	Gallons	pH (s.u.)	Specific Conductance (mS/cm)	Temp. (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Total Iron (mg/L)	Ferrous Iron (mg/L)	Comments
ESI-10	06/08/09											clear, colorless
Volume=0.60		0.60	7.20	1.002	16.0	23	6.5		-54			clear, colorless
Purge: peristaltic pump		1.20	6.98	0.992	15.1	5	5.62		-60			clear, colorless
existing tubing		1.80	7.10	0.996	15.0	3	5.51		-58			clear, colorless
Sample: existing bailer			Samples collected					6/8/2009		0.98	0.67	clear, colorless
ESI-11	06/08/09	0-1/2 gal	prepurge									sl. Cloudy, red orange
Volume =	0.72	0.72	7.31	0.964	15.1	59	4.88		-115			cloudy, lt brown
Purge: peristaltic pump		1.44	7.10	0.991	14.5	24	4.76		-100			clear, colorless
existing tubing		2.16	7.12	0.996	14.4	13	4.69		-95			clear, colorless
Sample: existing bailer			Samples collected					6/8/2009		7.64	2.21	clear, colorless
ESI-12	06/08/09	0-1/2 gal	prepurge									cloudy, brown
Volume=0.61		0.61	7.78	0.997	14.5	34	3.74		23			clear, colorless
Purge: peristaltic pump		1.22	7.72	0.989	13.9	11	3.84		22		clear, colorless	
existing tubing		1.83	7.74	0.976	13.6	3	3.92		22			clear, colorless
Sample: existing bailer			Samples collected					6/8/2009		0	0	clear, colorless
ESI-13R	06/08/09	0-1	Pre-purge to clear sediment									cloudy, dark brown
Volume=0.93		0.93	8.00	1.760	12.9	19	8.87		50			clear, colorless
Purge: peristaltic pump		1.86	7.38	1.750	12.1	19	6.59		58			clear, colorless
existing tubing		2.79	7.29	1.740	11.7	15	6.79		66			clear, colorless
		3.72	7.17	1.750	11.7	9	6.76		63			clear, colorless
Sample: existing bailer			Samples collected					6/8/2009		1.11	0.15	clear, colorless

TABLE 3

FIELD PARAMETER SUMMARY 2009
FORMER DOWCRAFT SITE
JAMESTOWN, NEW YORK

Well ID	Date	Gallons	pH (s.u.)	Specific Conductance (mS/cm)	Temp. (°C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Total Iron (mg/L)	Ferrous Iron (mg/L)	Comments
PW-1	06/08/09	initial w/q										cloudy, brown
Volume=18.8		18.8	7.72	1.259	13.2	42	5.08		36			clear, lt brown tint
Purge: grundfos		37.6	7.68	1.239	13.4	44	4.86		38			clear, lt brown tint
		56.4	7.69	1.240	12.5	44	4.9		40			clear, lt brown tint
existing tubing												
												blind dup.
Sample: existing bailer			Samples collected					6/8/2009		1.41	0.07	clear, lt brown tint
PW-2	06/08/09	initial w/q										sl. Cloudy gray
Volume=18		18	7.72	1.227	13.3	168	2.41		-173			cloudy, gray
Purge: grundfos		36	7.69	1.242	12.1	54	2.63		-168			sl. Cloudy,lt gray
existing tubing		54	7.69	1.249	12.1	24	2.82		-165			clear, colorless
												MS/MSD
Sample: existing bailer			samples collected					6/8/2009		8.00	3.04	clear, colorless
PW-3R	06/08/09	initial w/q										cloudy gray, sour odor
Volume=40				no readings taken due to crisco in purge water								well sat for 45min. Following the purge no recharge
Purge: grundfos		purged 35 gal. Not recharging, encountered 3 layers of crisco1@9.5ft,2@17ft,3@25ft+-										sampled water that was in the well
existing tubing												
Sample:mple: bailer-existing			samples collected					6/8/2009		4.85	0.64	cloudy, gray,clumps of hydrogenated oil
Chadakoin	06/08/09		8.11	0.323	21.0	5	3.81		-78	0	0	clear, colorless
Creek		collected directly into sample containers										Water depth +/- 1.0 feet where collected
												Creek low
ESI-1	12/08/09	0-1 gal	Pre-purge to clear sediment									sl. Cloudy, lt brown
Volume =	0.9	0.9	7.31	1.460	11.1	692	6.43		119			cloudy, brown
		1.8	7.20	1.068	11.4	123	5.59		118			sl. Cloudy, lt brown
Purge: peristaltic pump		2.7	7.10	0.989	11.6	125	5.69		122			sl. Cloudy, lt brown
existing tubing		3.6	6.99	0.901	11.4	71	5.74		119			sl. Cloudy, lt brown
		4.5	6.95	0.866	11.5	44	6.58		122			clear, colorless
Sample: existing teflon bailer			Samples collected					12/8/2009		1.69	0.33	clear, colorless

TABLE 3

FIELD PARAMETER SUMMARY 2009
FORMER DOWCRAFT SITE
JAMESTOWN, NEW YORK

Well ID	*Date*	*Gallons*	*pH (s.u.)*	*Specific Conductance (mS/cm)*	*Temp. (°C)*	*Turbidity (NTU)*	*Dissolved Oxygen (mg/L)*	*Dissolved Oxygen (mg/L)*	*Oxidation Reduction Potential (mV)*	*Total Iron (mg/L)*	*Ferrous Iron (mg/L)*	*Comments*
ESI-2	12/08/09	0-1/2 gal	Pre-purge to clear sediment									cloudy, black
Volume=0.82		0.82	7.04	1.393	11.7	50	7.1		-63			sl. Cloudy, gray
		1.64	6.81	1.029	11.1	15	5.08		-118			clear, colorless
Purge: peristaltic pump		2.46	6.70	1.313	12.0	4	3.97		-119			clear, colorless
existing tubing		3.28	6.63	1.313	11.9	4	3.6		-115			clear, colorless
		4.1	6.6	1.316	11.9	2	3.48		-117			clear, colorless
Sample: existing bailer			Samples collected		MS/MSD			12/8/2009		2.15	1.92	clear, colorless
ESI-3	12/08/09	0-1 gal	Pre-purge to clear sediment									cloudy, gray
Volume=0.8		0.8	6.67	1.028	10.6	151	13.04		36.7			cloudy, gray
		1.6	6.49	1.077	11.5	102	11.2		54.9			cloudy, gray
Purge: peristaltic pump		2.4	6.46	1.156	11.5	88	11.43		67			cloudy, gray
existing tubing		3.2	6.45	1.233	11.6	95	10.96		75.6			cloudy, gray
		4.0	6.41	1.271	11.7	68	9.89		85.1			cloudy, gray
Sample: new teflon bailer			Samples collected					12/8/2009		0.55	0.16	cloudy, gray
ESI-7	12/08/09	initial w/q										cloudy, brown
Volume=0.74		0.74	7.27	1.051	11.4	41	8.07		116			clear, colorless
Purge: peristaltic pump		1.48	6.99	1.041	11.5	28	7.45		116			clear, colorless
existing tubing		2.22	7.00	1.032	11.3	12	7.78		118			clear, colorless
		2.96	6.99	1.042	10.9	6	7.1		114			clear, colorless
		3.7	6.93	1.036	11.4	7	7.26		116			
Sample: existing small diameter bailer				Samples collected				12/8/2009		0.03	0	clear, colorless
ESI-10	12/08/09	initial w/q										clear, brown tint
Volume=0.84		0.84	6.84	0.897	14.4	32	4.75		108			clear, colorless
Purge: peristaltic pump		1.68	6.57	0.902	14.9	12	4.35		85			clear,colorless
existing tubing		2.52	6.40	0.904	14.9	3	4.26		78			clear, colorless
		3.36	6.36	0.908	15.0	2	4.12		70			clear, colorless
Sample: existing bailer			Samples collected					12/8/2009		2.96	0.24	clear, colorless

TABLE 3

FIELD PARAMETER SUMMARY 2009
FORMER DOWCRAFT SITE
JAMESTOWN, NEW YORK

Well ID	*Date*	*Gallons*	*pH (s.u.)*	*Specific Conductance (mS/cm)*	*Temp. (°C)*	*Turbidity (NTU)*	*Dissolved Oxygen (mg/L)*	*Dissolved Oxygen (mg/L)*	*Oxidation Reduction Potential (mV)*	*Total Iron (mg/L)*	*Ferrous Iron (mg/L)*	*Comments*
ESI-11	12/08/09	initial w/q										cloudy, red brown, orange
Volume =	0.96	0.96	6.69	1.012	14.9	40	4.33		80			clear, colorless
Purge: peristaltic pump		1.92	6.58	1.007	14.9	12	3.36		-16			clear, colorless
existing tubing		2.88	6.52	1.012	14.9	5	3.16		-30			clear, colorless
Sample: existing bailer			Samples collected							2.52	2.14	clear, colorless
ESI-12	12/08/09	0-1 gal	pre-purge to clear sediment									cloudy, dark brown
Volume=0.9		0.9	6.19	1.094	14.0	4	8.33		84			clear, colorless
Purge: peristaltic pump		1.8	6.17	1.093	14.8	12	7.53		90.9		clear, colorless	
existing tubing		2.7	6.18	1.102	14.9	7	7.45		96.7			clear, colorless
		3.6	6.20	1.102	14.9	3	7.8		98.8			clear, colorless
Sample: existing bailer			Samples collected					12/8/2009		0.22	0.07	clear, colorless
ESI-13R	12/08/09	initial w/q										cloudy, dark gray
Volume=1.1		1.1	5.41	1.202	12.4	6	6.92		81			clear, colorless
Purge: peristaltic pump		2.2	5.38	1.212	13.2	3	6.2		87.8			clear, colorless
existing tubing		3.3	5.45	1.214	13.3	5	6.82		93.6			clear, colorless
Sample: existing bailer			Samples collected					12/8/2009		1.7	0.98	clear, colorless
PW-1	12/08/09	20.4	7.11	1.356	11.5	40.6	6.71		-39			cloudy, orange
Volume=20.4		40.8	7.01	1.350	11.5	27.9	6.64		-29			clear, colorless
Purge: grundfos		61.2	6.98	1.348	11.6	14.6	6.34		-15			clear, colorless
existing tubing		81.6	7.03	1.339	11.7	7	6.46		-6		clear, colorless	
		102	7.09	1.346	11.3	4	6.43		20		clear, colorless	
Sample: existing bailer			Samples collected					12/8/2009		0.49	0.1	clear, colorless

TABLE 3

FIELD PARAMETER SUMMARY 2009
FORMER DOWCRAFT SITE
JAMESTOWN, NEW YORK

Well ID	*Date*	*Gallons*	*pH (s.u.)*	*Specific Conductance (mS/cm)*	*Temp. (°C)*	*Turbidity (NTU)*	*Dissolved Oxygen (mg/L)*	*Dissolved Oxygen (mg/L)*	*Oxidation Reduction Potential (mV)*	*Total Iron (mg/L)*	*Ferrous Iron (mg/L)*	*Comments*
PW-2	12/08/09	19.5	6.94	1.272	12.0	182	4.73		-99			cloudy, lt gray
Volume=19.5		39	6.90	1.293	12.0	74	4.57		-105			sl. Cloudy,Lt. Gray
Purge: grundfos		58.5	6.92	1.289	12.1	29	4.67		-112			clear, colorless
existing tubing												
Sample: existing bailer			Samples collected					12/8/2009		6.10	0.79	clear, colorless
		initial w/q										clear, colorless
PW-3R	12/08/09		no readings taken due to crisco like prod. In purge water									
Volume=41.4			dried out well, sampled after well recovered enough									
Purge: hydro lift jerker			well @ 52 gallons									
existing tubing												
Sample: new teflon bailer			samples collected					12/8/2009		0.16	0.1	cloudy, dark gray, crisco particals
Chadakoin Creek	12/08/09		7.93	0.320	2.6	6	17.06		44.6	0.03	0	clear, colorless
		collected directly into sample containers										

Notes:

mV	Millivolts
mS/cm.	Milliseimens per centimeter
s.u.	Standard Unit.
mg/L	Milligrams/Liter.
999	Reading exceeds maximum range of meter

TABLE 4

GROUNDWATER ELEVATIONS 2008
FORMER DOWCRAFT SITE
JAMESTOWN, NEW YORK

Well	*Top of Casing Elevation (Ft. AMSL)*	*Depth to Water October 25, 2005 (Ft. BTOC)*	*Water Elevation October 25, 2005 (Ft. AMSL)*	*Depth to Water 28-Nov-06 (Ft. BTOC)*	*Water Elevation 28-Nov-06 (Ft. AMSL)*	*Depth to Water 13-Sep-07 (Ft. BTOC)*	*Water Elevation 13-Sep-07 (Ft. AMSL)*	*Depth to Water 11-Dec-07 (Ft. BTOC)*	*Water Elevation 11-Dec-07 (Ft. AMSL)*	*Depth to Water 4-Sep-08 (Ft. BTOC)*	*Water Elevation 4-Sep-08 (Ft. AMSL)*	*Depth to Water 15-Dec-08 (Ft. BTOC)*	*Water Elevation 15-Dec-08 (Ft. AMSL)*	*Depth to Water 8-Dec-09 (Ft. BTOC)*	*Water Elevation 8-Dec-09 (Ft. AMSL)*
ESI-1	1264.17	8.93	1255.24	7.71	1256.46	9.65	1254.52	7.30	1256.87	9.88	1254.29	6.90	1257.27	8.18	1255.99
ESI-2	1264.60	9.15	1255.45	8.04	1256.56	9.98	1254.62	7.72	1256.88	10.25	1254.35	7.50	1257.1	8.73	1255.87
ESI-2D	1264.53	9.10	1255.43	NM		NM									
ESI-3	1264.89	9.42	1255.47	8.17	1256.72	9.95	1254.94	7.86	1257.03	10.04	1254.85	7.62	1257.27	8.74	1256.15
ESI-4	1265.06	9.61	1255.45	8.29	1256.77	10.15	1254.91	8.02	1257.04	10.43	1254.63	7.75	1257.31	8.92	1256.14
ESI-5	1264.80	8.84	1255.96	7.7	1257.1	9.34	1255.46	7.46	1257.34	9.58	1255.22	7.17	1257.63	8.27	1256.53
ESI-6	1264.66	9.37	1255.29	8.12	1256.54	9.93	1254.73	7.82	1256.84	10.22	1254.44	NA		8.71	1255.95
ESI-7	1264.93	CNL		8.31	1256.62	10.13	1254.8	8.01	1256.92	10.46	1254.47	7.67	1257.26	8.91	1256.02
ESI-8	1268.25	12.32	1255.93	11.25	1257	12.88	1255.37	10.92	1257.33	13.44	1254.81	9.57	1258.68	11.77	1256.48
ESI-9	1265.99	8.01	1257.98	7.13	1258.86	8.06	1257.93	6.95	1259.04	8.44	1257.55	NA		7.45	1258.54
ESI-10	1265.08	10.07	1255.01	8.82	1256.26	10.86	1254.22	8.56	1256.52	10.98	1254.1	8.14	1256.94	9.29	1255.79
MW/ESI-10D	1265.17	10.12	1255.05	NM		NM									
ESI-11	1265.09	9.98	1255.11	8.75	1256.34	10.74	1254.35	8.37	1256.72	10.93	1254.16	8.03	1257.06	9.30	1255.79
ESI-12	1264.95	9.70	1255.25	8.45	1256.5	10.48	1254.47	8.16	1256.79	10.63	1254.32	7.74	1257.21	9.00	1255.95
MW/ESI-12D	1264.67	9.40	1255.27	NM		NM									
ESI-13				NM		NM									
ESI-13R	1263.31	8.32	1254.99	6.99	1256.32	8.98	1254.33	6.71	1256.6	9.21	1254.1	9.21	1254.1	7.57	1255.74
ESI-14	1262.58	7.60	1254.98	6.48	1256.1	8.21	1254.37	6.20	1256.38	8.53	1254.05	5.65	1256.93	7.05	1255.53
MW/ESI-15	1265.31	CNL		NM		NM									
MW/ESI-16	1263.40	8.51	1254.89	NM		NM									
PW-1	1264.60	9.31	1255.29	8.02	1256.58	9.9	1254.7	7.73	1256.87	10.15	1254.45	7.38	1257.22	8.6	1256.00
PW-2	1264.70	9.41	1255.29	8.13	1256.57	9.98	1254.72	7.8	1256.9	10.26	1254.44	7.46	1257.24	8.73	1255.97
PW-3R	1265.04	9.00	1256.04	8.08	1256.96	9.9	1255.14	7.88	1257.16	10.42	1254.62	7.38	1257.66	8.6	1256.44
IBH-1	1264.98	CNL		NM		NM									
IBH-2	1265.00	9.43	1255.57	NM		NM									
IBH-3	1265.14	CNL		NM		NM									
IBH-4	1265.07	CNL		NM		NM									
IBH-5	1265.13	CNL		NM		NM									
RIVER BM	1264.92	7.18	1257.74	6.25	1258.67	7.85	1257.07	6.1	1258.82	7.85	1257.07	5.95	1258.97	6.72	1258.20
River - USGS	1256.41			2.42	1258.83	0.63	1257.04	2.61	1259.02	0.61	1257.02	2.76	1259.17	0.16	1256.57
River below dam		Estimatetop of dam at 1257 +/-				1.1	1255.94	0.66	1258.26	2.20	1254.85	(water surface is above dam)		1.10	1255.90

Notes:

Ft. AMSL	Feet Above Mean Sea Level.	
Ft. BTOC	Feet Below Top of Casing.	
NA	Not Applicable.	
NM	Not Measured.	
CNL	Cannot Locate Well	
Bridge benchmark -	385.446 meter = 1,264.59 feet	
USGS River Staff Gage Datum	1256.41	NAD29
Bridge benchmark by USGS	1264.92	NAD29
Link to USGS	http://waterdata.usgs.gov/nwis/uv?03014500	

APPENDIX A

QA/QC REVIEWS 2008

CONESTOGA-ROVERS
& ASSOCIATES

2055 Niagara Falls Blvd., Suite #3
Niagara Falls, New York 14304
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MEMORANDUM

TO: Jim Kay

REF. NO.: 005020

FROM: Susan Scrocchi/bjw/1 SCS

DATE: October 6, 2009

E-Mail and Hard Copy if Requested

RE: **Analytical Results and QA/QC Review**
Groundwater Monitoring Program
Dowcraft Corporation
Jamestown, New York
June 2009

INTRODUCTION

Thirteen (13) water samples, including one field duplicate, were collected at the Dowcraft Site (Site) in Jamestown, New York, in June 2009. Samples were submitted to H2M Laboratories, Inc. (H2M) in Melville, New York. A sample key is presented in Table 1 and the analytical parameter list, methodologies, and holding time criteria are presented in Table 2. The analytical results are summarized in Table 3. A copy of the Chain of Custody form is attached.

The final results and supporting quality assurance/quality control (QA/QC) data were reviewed. Evaluation of the data was based on information obtained from the Chain of Custody forms, finished report forms, blank data, and recovery data from matrix, blank and surrogate spikes. The QA/QC criteria by which the data have been assessed are outlined in the analytical method and the document "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99/008, October 1999.

QA/QC REVIEW

All samples were prepared and analyzed within the method-required holding times. All samples were properly preserved and maintained at 4°C (±2°C).

Method blanks were analyzed with the investigative samples for all parameters. All method blanks were non-detect for the compounds of interest with the exception of low levels of acetone. All associated sample results with similar concentrations were qualified as non-detect (see Table 4).

All samples, blanks, and QC samples were spiked with surrogate compounds prior to sample analysis in accordance with the organic method. All surrogate spike recoveries met the associated method criteria.

Trip blanks were collected and transported with the investigative samples for analysis as shown in Table 1. All trip blank results were non-detect with the exception of acetone and methylene chloride present at low concentrations. All associated sample results with similar concentrations were qualified as non-detect (see Table 5).

Blank spikes (BS) were prepared and analyzed for all parameters. All recoveries were within the laboratory control limits indicating good analytical accuracy.

A matrix spike/matrix spike duplicate (MS/MSD) was performed on sample WG-5020-060809-SG-011. All recoveries were within laboratory control limits, indicating good analytical accuracy and precision.

A field duplicate sample was collected and analyzed as shown in Table 1. All results showed good field and analytical precision.

CONCLUSION

Based on the preceding data assessment, the data presented in Table 3 were judged to be acceptable with the qualifications noted herein.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
JUNE 2009

Sample ID	*Location ID*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*Analysis/Parameters VOCs*	*Comments*
WG-5020-060809-SG-001	ESI-1	06/08/09	11:00	x	
WG-5020-060809-SG-002	ESI-13R	06/08/09	11:10	x	
WG-5020-060809-SG-003	ESI-7	06/08/09	12:00	x	
WG-5020-060809-SG-004	ESI-12	06/08/09	17:00	x	
WG-5020-060809-SG-005	ESI-10	06/08/09	12:30	x	
WG-5020-060809-SG-006	ESI-11	06/08/09	13:00	x	
WG-5020-060809-SG-007	ESI-2	06/08/09	13:30	x	
WG-5020-060809-SG-008	ESI-3	06/08/09	14:15	x	
WG-5020-060809-SG-009	PW-1	06/08/09	15:00	x	
WG-5020-060809-SG-010	PW-1	06/08/09	15:10	x	Field Duplicate of 009
WG-5020-060809-SG-011	PW-2	06/08/09	16:00	x	MS/MSD
WG-5020-060809-SG-012	CREEK	06/08/09	16:15	x	
WG-5020-060809-SG-013	PW-3R	06/08/09	18:30	x	
TB-5020-060809-SG	TRIP BLANK	06/08/09	-	x	

Notes:

- Not applicable.
MS Matrix Spike.
MSD Matrix Spike Duplicate.
VOCs Volatile Organic Compounds.

TABLE 2

ANALYTE PARAMETER LIST
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
JUNE 2009

Analytical Parameter	*Method Number*	*Holding Time Criteria*
Volatiles	USEPA 8260B [1]	14 days from collection to analysis (preserved with HCl)

Notes:

[1] USEPA "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," 3rd Edition, November, 1986 United States Environmental Protection Agency.

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
JUNE 2009

	Sample Location:	ESI-1	ESI-2	ESI-3	ESI-7	ESI-10
	Sample Id:	WG-5020-060809-SG-001	WG-5020-060809-SG-007	WG-5020-060809-SG-008	WG-5020-060809-SG-003	WG-5020-060809-SG-005
	Sample Date:	*6/8/2009*	*6/8/2009*	*6/8/2009*	*6/8/2009*	*6/8/2009*
Parameters	*Units*					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	µg/L	10 U	4 J	10 U	10 U	10 U
1,2,4-Trichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	µg/L	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	µg/L	10 U	10 U	10 U	10 U	10 U
Bromoform	µg/L	10 U	10 U	10 U	10 U	10 U
Bromomethane (Methyl Bromide)	µg/L	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	µg/L	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	µg/L	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Chloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	µg/L	10 U	10 U	10 U	10 U	10 U
Chloromethane (Methyl Chloride)	µg/L	10 U	10 U	10 U	10 U	10 U
cis-1,2-Dichloroethene	µg/L	10 U	3400	2 J	10 U	280
cis-1,3-Dichloropropene	µg/L	10 U	10 U	10 U	10 U	10 U
Cyclohexane	µg/L	10 U	10 U	10 U	10 U	10 U

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
JUNE 2009

	Sample Location:	ESI-1	ESI-2	ESI-3	ESI-7	ESI-10
	Sample Id:	WG-5020-060809-SG-001	WG-5020-060809-SG-007	WG-5020-060809-SG-008	WG-5020-060809-SG-003	WG-5020-060809-SG-005
	Sample Date:	*6/8/2009*	*6/8/2009*	*6/8/2009*	*6/8/2009*	*6/8/2009*
Parameters	*Units*					
Volatile Organic Compounds (Cont'd.)						
Dibromochloromethane	µg/L	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane (CFC-12)	µg/L	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Isopropylbenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl Tert Butyl Ether	µg/L	10 U	10 U	10 U	10 U	10 U
Methylene chloride	µg/L	10 U	10 U	10 U	10 U	10 U
Styrene	µg/L	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	µg/L	10 U	10 U	10 U	10 U	10 U
Toluene	µg/L	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	µg/L	10 U	15	10 U	10 U	1 J
trans-1,3-Dichloropropene	µg/L	10 U	10 U	10 U	10 U	10 U
Trichloroethene	µg/L	6 J	140	5 J	11	57
Trichlorofluoromethane (CFC-11)	µg/L	10 U	10 U	10 U	10 U	10 U
Trifluorotrichloroethane (Freon 113)	µg/L	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	µg/L	10 U	810	10 U	10 U	62
Xylene (total)	µg/L	10 U	10 U	10 U	10 U	10 U

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
JUNE 2009

Parameters	*Units*	*Sample Location:* ESI-11 *Sample Id:* WG-5020-060809-SG-006 *Sample Date:* *6/8/2009*	ESI-12 WG-5020-060809-SG-004 *6/8/2009*	ESI-13R WG-5020-060809-SG-002 *6/8/2009*	PW-1 WG-5020-060809-SG-009 *6/8/2009*	PW-1 WG-5020-060809-SG-010 *6/8/2009 (Duplicate)*
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	µg/L	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	µg/L	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	µg/L	10 U	10 U	10 U	10 U	10 U
Bromoform	µg/L	10 U	10 U	10 U	10 U	10 U
Bromomethane (Methyl Bromide)	µg/L	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	µg/L	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	µg/L	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Chloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	µg/L	10 U	10 U	10 U	10 U	10 U
Chloromethane (Methyl Chloride)	µg/L	10 U	10 U	10 U	10 U	10 U
cis-1,2-Dichloroethene	µg/L	230	120	2 J	170	200
cis-1,3-Dichloropropene	µg/L	10 U	10 U	10 U	10 U	10 U
Cyclohexane	µg/L	10 U	10 U	10 U	10 U	10 U

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
JUNE 2009

Parameters	*Units*	*Sample Location:* ESI-11 *Sample Id:* WG-5020-060809-SG-006 *Sample Date:* *6/8/2009*	ESI-12 WG-5020-060809-SG-004 *6/8/2009*	ESI-13R WG-5020-060809-SG-002 *6/8/2009*	PW-1 WG-5020-060809-SG-009 *6/8/2009*	PW-1 WG-5020-060809-SG-010 *6/8/2009* *(Duplicate)*
Volatile Organic Compounds (Cont'd.)						
Dibromochloromethane	µg/L	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane (CFC-12)	µg/L	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Isopropylbenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl Tert Butyl Ether	µg/L	10 U	10 U	10 U	10 U	10 U
Methylene chloride	µg/L	10 U	10 U	10 U	10 U	10 U
Styrene	µg/L	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	µg/L	10 U	10 U	10 U	10 U	10 U
Toluene	µg/L	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	µg/L	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	µg/L	10 U	10 U	10 U	10 U	10 U
Trichloroethene	µg/L	28	100	14	100	120
Trichlorofluoromethane (CFC-11)	µg/L	10 U	10 U	10 U	10 U	10 U
Trifluorotrichloroethane (Freon 113)	µg/L	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	µg/L	93	2 J	10 U	38	51
Xylene (total)	µg/L	10 U	10 U	10 U	10 U	10 U

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
JUNE 2009

	Sample Location:	PW-2	PW-3R	CREEK
	Sample Id:	WG-5020-060809-SG-011	WG-5020-060809-SG-013	WG-5020-060809-SG-012
	Sample Date:	*6/8/2009*	*6/8/2009*	*6/8/2009*
Parameters	*Units*			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/L	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	µg/L	10 U	10 U	10 U
1,1,2-Trichloroethane	µg/L	10 U	10 U	10 U
1,1-Dichloroethane	µg/L	10 U	1 J	10 U
1,1-Dichloroethene	µg/L	10 U	22	10 U
1,2,4-Trichlorobenzene	µg/L	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	10 U	10 U	10 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	10 U	10 U	10 U
1,2-Dichlorobenzene	µg/L	10 U	10 U	10 U
1,2-Dichloroethane	µg/L	10 U	10 U	10 U
1,2-Dichloropropane	µg/L	10 U	10 U	10 U
1,3-Dichlorobenzene	µg/L	10 U	10 U	10 U
1,4-Dichlorobenzene	µg/L	10 U	10 U	10 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	33	10 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	10 U	10 U	10 U
Acetone	µg/L	10 U	37 U	10 U
Benzene	µg/L	10 U	1 J	10 U
Bromodichloromethane	µg/L	10 U	10 U	10 U
Bromoform	µg/L	10 U	10 U	10 U
Bromomethane (Methyl Bromide)	µg/L	10 U	10 U	10 U
Carbon disulfide	µg/L	10 U	1 J	10 U
Carbon tetrachloride	µg/L	10 U	10 U	10 U
Chlorobenzene	µg/L	10 U	10 U	10 U
Chloroethane	µg/L	2 J	10 U	10 U
Chloroform (Trichloromethane)	µg/L	10 U	10 U	10 U
Chloromethane (Methyl Chloride)	µg/L	10 U	10 U	10 U
cis-1,2-Dichloroethene	µg/L	270	17000	1 J
cis-1,3-Dichloropropene	µg/L	10 U	10 U	10 U
Cyclohexane	µg/L	10 U	10 U	10 U

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
JUNE 2009

	Sample Location:	PW-2	PW-3R	CREEK
	Sample Id:	WG-5020-060809-SG-011	WG-5020-060809-SG-013	WG-5020-060809-SG-012
	Sample Date:	*6/8/2009*	*6/8/2009*	*6/8/2009*
Parameters	*Units*			
Volatile Organic Compounds (Cont'd.)				
Dibromochloromethane	µg/L	10 U	10 U	10 U
Dichlorodifluoromethane (CFC-12)	µg/L	10 U	10 U	10 U
Ethylbenzene	µg/L	10 U	10 U	10 U
Isopropylbenzene	µg/L	10 U	10 U	10 U
Methyl acetate	µg/L	10 U	10 U	10 U
Methyl cyclohexane	µg/L	10 U	10 U	10 U
Methyl Tert Butyl Ether	µg/L	10 U	10 U	10 U
Methylene chloride	µg/L	10 U	10 U	10 U
Styrene	µg/L	10 U	10 U	10 U
Tetrachloroethene	µg/L	10 U	10 U	10 U
Toluene	µg/L	10 U	10 U	10 U
trans-1,2-Dichloroethene	µg/L	4 J	95	10 U
trans-1,3-Dichloropropene	µg/L	10 U	10 U	10 U
Trichloroethene	µg/L	41	10 U	10 U
Trichlorofluoromethane (CFC-11)	µg/L	10 U	10 U	10 U
Trifluorotrichloroethane (Freon 113)	µg/L	10 U	10 U	10 U
Vinyl chloride	µg/L	170	500 J	10 U
Xylene (total)	µg/L	10 U	10 U	10 U

Notes:

J - Estimated.
U - Non-detected at associated value.

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
JUNE 2009

Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*
VOCs	6/11/09	Acetone	1 J	WG-5020-060809-SG-001	10 U
				WG-5020-060809-SG-002	10 U
				WG-5020-060809-SG-003	10 U
				WG-5020-060809-SG-007	10 U
				WG-5020-060809-SG-011	10 U
				WG-5020-060809-SG-012	10 U
VOCs	6/12/09	Acetone	1 J	WG-5020-060809-SG-008	10 U

Notes:

J Estimated.
U Not detected.
VOCs Volatile Organic Compounds.

TABLE 5

QUALIFIED SAMPLE DATA DUE TO ANALYTE CONCENTRATIONS IN THE TRIP BLANK
SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
JUNE 2009

Parameter	*Blank Date*	*Analyte*	*Blank Result*	*Associated Sample ID*	*Qualified Sample Result*	*Units*
VOCs	06/08/09	Acetone	8 J	WG-5020-060809-SG-013	37 U	µg/L

Notes:

J Estimated.
U Not detected.
VOCs Volatile Organic Compounds.

CHAIN OF CUSTODY RECORD

CRA651

CONESTOGA-ROVERS & ASSOCIATES
NF office

SHIPPED TO (Laboratory Name): H2M Labs

REFERENCE NUMBER: 5020 Dawcraft Semi-Annual GW Sampling

SAMPLER'S SIGNATURE: Dave Tyran PRINTED NAME: David Tyran

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS VOCs	REMARKS
06655							
001A	6-8-09	1100	WG-5020-060809-SG-001	water	2	2	* All samples preserved with Ascorbic Acid Only *
002A		1110	WG-5020-060809-SG-002		2	2	
003A		1200	WG-5020-060809-SG-003		2	2	
004A		1700	WG-5020-060809-SG-004		2	2	
005A		1230	WG-5020-060809-SG-005		2	2	
006A		1300	WG-5020-060809-SG-006		2	2	
007A		1330	WG-5020-060809-SG-007		2	2	
008A		1415	WG-5020-060809-SG-008		2	2	
009A		1500	WG-5020-060809-SG-009		2	2	
010A		1510	WG-5020-060809-SG-010		2	2	
011A		1600	WG-5020-060809-SG-011		6	6	
012A		1615	WG-5020-060809-SG-012		2	2	MS/MSD
013A		1830	WG-5020-060809-SG-013		2	2	
014A			TB-5020-060809-SG	Lab Water	2	2	

Samples were:
Shipped ✓ or Hand Delivered ___ Airbill# ___
✓ 2. Ambient or Chilled Temp 2.7°C ONICE
COC Tape was:
✓ Present on outer package Y ✓ N ___
✓ Unbroken on outer package: Y ✓ N ___
9803 8526 4495

TOTAL NUMBER OF CONTAINERS: 32

HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY: ① Dave Tyran	DATE: 6-9-09 TIME: 0830	RECEIVED BY: ① Matt M.	DATE: 6/10/09 TIME: 10:00
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:

METHOD OF SHIPMENT: FedEx WAY BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Goldenrod —Sampler Copy

SAMPLE TEAM: S. Gardner, D. Tyran

RECEIVED FOR LABORATORY BY: Matt M. DATE: 6/10/09 TIME: 10:00

Nº CRA 17417

CRA651 A3

1001 (D) APR 28/97(NF) REV. 0 (F-15)

CONESTOGA-ROVERS & ASSOCIATES

2055 Niagara Falls Blvd., Suite #3
Niagara Falls, New York 14304
Telephone: (716) 297-6150 Fax: (716) 297-2265
www.CRAworld.com

MEMORANDUM

TO: Jim Kay

REF. NO.: 005020

FROM: Susan Scrocchi/bjw/2 SCS

DATE: January 11, 2010

E-Mail and Hard Copy if Requested

RE: **Analytical Results and QA/QC Review**
Groundwater Monitoring Program
Dowcraft Corporation
Jamestown, New York
December 2009

INTRODUCTION

Thirteen (13) water samples, including one field duplicate, were collected at the Dowcraft Site (Site) in Jamestown, New York, in December 2009. Samples were submitted to H2M Laboratories, Inc. (H2M) in Melville, New York. A sample key is presented in Table 1 and the analytical parameter list, methodologies, and holding time criteria are presented in Table 2. The analytical results are summarized in Table 3. A copy of the Chain of Custody form is attached.

The final results and supporting quality assurance/quality control (QA/QC) data were reviewed. Evaluation of the data was based on information obtained from the Chain of Custody forms, finished report forms, blank data, and recovery data from matrix, blank and surrogate spikes. The QA/QC criteria by which the data have been assessed are outlined in the analytical method and the document "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99/008, October 1999.

QA/QC REVIEW

All samples were prepared and analyzed within the method-required holding times. All samples were properly preserved and maintained at 4°C (±2°C).

Method blanks were analyzed with the investigative samples for all parameters. All method blanks were non-detect for the compounds of interest with the exception of low levels of acetone. All associated sample results with similar concentrations were qualified as non-detect (see Table 4).

All samples, blanks, and QC samples were spiked with surrogate compounds prior to sample analysis in accordance with the organic method. All surrogate spike recoveries met the associated method criteria.

Trip blanks were collected and transported with the investigative samples for analysis as shown in Table 1. All trip blank results were non-detect with the exception of acetone present at low concentrations. All associated sample results with similar concentrations were qualified as non-detect (see Table 5).

Blank spikes (BS) were prepared and analyzed for all parameters. All recoveries were within the laboratory control limits indicating good analytical accuracy.

A matrix spike/matrix spike duplicate (MS/MSD) was performed on sample WG-5020-120809-SG-011. All recoveries were within laboratory control limits, indicating good analytical accuracy and precision with the exception of a low recovery. The sample result was qualified as estimated (see Table 6).

A field duplicate sample was collected and analyzed as shown in Table 1. All results showed good field and analytical precision.

CONCLUSION

Based on the preceding data assessment, the data presented in Table 3 were judged to be acceptable with the qualifications noted herein.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
DECEMBER 2009

Sample ID	*Location ID*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*Analysis/Parameters VOCs*	*Comments*
WG-5020-120809-SG-001	ESI-1	12/08/09	10:35	x	
WG-5020-120809-SG-002	ESI-7	12/08/09	11:30	x	
WG-5020-120809-SG-005	ESI-10	12/08/09	12:30	x	
WG-5020-120809-SG-006	ESI-11	12/08/09	12:55	x	
WG-5020-120809-SG-009	PW-3R	12/08/09	17:00	x	
WG-5020-120809-SG-010	RIVER	12/08/09	14:30	x	
WG-5020-120809-SG-011	ESI-2	12/08/09	14:50	x	MS/MSD
WG-5020-120809-SG-012	PW-1	12/08/09	16:15	x	
WG-5020-120809-SG-013	PW-2	12/08/09	16:50	x	
WG-5020-120809-007	ESI-3	12/08/09	13:15	x	
WG-5020-120809-008	ESI-3	12/08/09	14:00	x	Field Duplicate of 007
WG-5020-120809-004	ESI-12	12/08/09	12:30	x	
WG-5020-120809-003	ESI-13R	12/08/09	11:45	x	
TB-5020-120809	Trip Blank	12/08/09	-	x	

Notes:

-	Not applicable.
MS	Matrix Spike.
MSD	Matrix Spike Duplicate.
VOCs	Volatile Organic Compounds.

TABLE 2

ANALYTE PARAMETER LIST
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
DECEMBER 2009

Analytical Parameter	*Method Number*	*Holding Time Criteria*
Volatiles	USEPA 8260B [1]	14 days from collection to analysis (preserved with HCl)

Notes:

[1] "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," 3rd Edition, November, 1986 (with all subsequent revisions).

USEPA United States Environmental Protection Agency.

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
DECEMBER 2009

	Sample Location:	*ESI-1*	*ESI-10*	*ESI-11*	*ESI-12*	*ESI-13R*
	Sample Id:	*WG-5020-120809-SG-001*	*WG-5020-120809-SG-005*	*WG-5020-120809-SG-006*	*WG-5020-120809-004*	*WG-5020-120809-003*
	Sample Date:	*12/8/2009*	*12/8/2009*	*12/8/2009*	*12/8/2009*	*12/8/2009*
Parameters	*Units*					
Volatiles						
1,1,1-Trichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	µg/L	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	µg/L	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	µg/L	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	µg/L	10 U	10 U	10 U	10 U	10 U
Bromoform	µg/L	10 U	10 U	10 U	10 U	10 U
Bromomethane (Methyl Bromide)	µg/L	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	µg/L	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	µg/L	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Chloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	µg/L	10 U	10 U	10 U	10 U	10 U
Chloromethane (Methyl Chloride)	µg/L	10 U	2 J	2 J	10 U	10 U
cis-1,2-Dichloroethene	µg/L	10 U	310	110	170	6 J
cis-1,3-Dichloropropene	µg/L	10 U	10 U	10 U	10 U	10 U
Cyclohexane	µg/L	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	µg/L	10 U	10 U	10 U	10 U	10 U

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
DECEMBER 2009

	Sample Location:	*ESI-1*	*ESI-10*	*ESI-11*	*ESI-12*	*ESI-13R*
	Sample Id:	*WG-5020-120809-SG-001*	*WG-5020-120809-SG-005*	*WG-5020-120809-SG-006*	*WG-5020-120809-004*	*WG-5020-120809-003*
	Sample Date:	*12/8/2009*	*12/8/2009*	*12/8/2009*	*12/8/2009*	*12/8/2009*
Parameters	*Units*					
Volatiles (Cont'd.)						
Dichlorodifluoromethane (CFC-12)	µg/L	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Isopropylbenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	10 U	10 U	10 U	10 U	10 U
Methyl Tert Butyl Ether	µg/L	10 U	10 U	10 U	10 U	10 U
Methylene chloride	µg/L	10 U	10 U	10 U	10 U	10 U
Styrene	µg/L	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	µg/L	10 U	10 U	10 U	10 U	10 U
Toluene	µg/L	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	µg/L	10 U	2 J	10 U	10 U	10 U
trans-1,3-Dichloropropene	µg/L	10 U	10 U	10 U	10 U	10 U
Trichloroethene	µg/L	8 J	3 J	1 J	180	12
Trichlorofluoromethane (CFC-11)	µg/L	10 U	10 U	10 U	10 U	10 U
Trifluorotrichloroethane (Freon 113)	µg/L	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	µg/L	10 U	61	130	10 U	10 U
Xylene (total)	µg/L	10 U	10 U	10 U	10 U	10 U

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
DECEMBER 2009

	Sample Location:	*ESI-2*	*ESI-2*	*ESI-3*	*ESI-3*	*PW-1*
	Sample Id:	*WG-5020-120809-SG-002*	*WG-5020-120809-SG-011*	*WG-5020-120809-007*	*WG-5020-120809-008*	*WG-5020-120809-SG-012*
	Sample Date:	*12/8/2009*	*12/8/2009*	*12/8/2009*	*12/8/2009 (Duplicate)*	*12/8/2009*
Parameters	*Units*					
Volatiles						
1,1,1-Trichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	µg/L	10 U	2 J	10 U	10 U	10 U
1,2,4-Trichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	µg/L	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	µg/L	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	µg/L	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	µg/L	10 U	10 U	10 U	10 U	10 U
Bromoform	µg/L	10 U	10 U	10 U	10 U	10 U
Bromomethane (Methyl Bromide)	µg/L	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	µg/L	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	µg/L	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	µg/L	10 U	10 U	10 U	10 U	10 U
Chloroethane	µg/L	10 U	3 J	10 U	10 U	10 U
Chloroform (Trichloromethane)	µg/L	10 U	10 U	10 U	10 U	10 U
Chloromethane (Methyl Chloride)	µg/L	10 U	10 U	10 U	2 J	2 J
cis-1,2-Dichloroethene	µg/L	3 J	1200	10 U	10 U	17
cis-1,3-Dichloropropene	µg/L	10 U	10 U	10 U	10 U	10 U
Cyclohexane	µg/L	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	µg/L	10 U	10 U	10 U	10 U	10 U

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
DECEMBER 2009

Parameters	Sample Location: / Sample Id: / Sample Date:	Units	ESI-2 WG-5020-120809-SG-002 12/8/2009	ESI-2 WG-5020-120809-SG-011 12/8/2009	ESI-3 WG-5020-120809-007 12/8/2009	ESI-3 WG-5020-120809-008 12/8/2009 (Duplicate)	PW-1 WG-5020-120809-SG-012 12/8/2009
Volatiles (Cont'd.)							
Dichlorodifluoromethane (CFC-12)		µg/L	10 U	10 U	10 U	10 U	10 U
Ethylbenzene		µg/L	10 U	10 U	10 U	10 U	10 U
Isopropylbenzene		µg/L	10 U	10 U	10 U	10 U	10 U
Methyl acetate		µg/L	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane		µg/L	10 U	10 U	10 U	10 U	10 U
Methyl Tert Butyl Ether		µg/L	10 U	10 U	10 U	10 U	10 U
Methylene chloride		µg/L	10 U	10 U	10 U	10 U	10 U
Styrene		µg/L	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene		µg/L	10 U	10 U	10 U	10 U	10 U
Toluene		µg/L	10 U	10 U	10 U	10 U	10 U
trans-1,2-Dichloroethene		µg/L	10 U	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene		µg/L	10 U	8 J	10 U	10 U	10 U
Trichloroethene		µg/L	10 U	10 U	10 U	10 U	10 U
Trichlorofluoromethane (CFC-11)		µg/L	17	94 J	3 J	3 J	13
Trifluorotrichloroethane (Freon 113)		µg/L	10 U	10 U	10 U	10 U	10 U
Vinyl chloride		µg/L	10 U	10 U	10 U	10 U	10 U
Xylene (total)		µg/L	10 U	450	10 U	10 U	3 J
			10 U	10 U	10 U	10 U	10 U

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
DECEMBER 2009

	Sample Location:	*PW-2*	*PW-3R*	*River*
	Sample Id:	*WG-5020-120809-SG-013*	*WG-5020-120809-SG-009*	*WG-5020-120809-SG-010*
	Sample Date:	*12/8/2009*	*12/8/2009*	*12/8/2009*
Parameters	*Units*			
Volatiles				
1,1,1-Trichloroethane	µg/L	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	µg/L	10 U	10 U	10 U
1,1,2-Trichloroethane	µg/L	10 U	10 U	10 U
1,1-Dichloroethane	µg/L	10 U	11	10 U
1,1-Dichloroethene	µg/L	10 U	150	10 U
1,2,4-Trichlorobenzene	µg/L	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	10 U	10 U	10 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	10 U	10 U	10 U
1,2-Dichlorobenzene	µg/L	10 U	10 U	10 U
1,2-Dichloroethane	µg/L	10 U	10 U	10 U
1,2-Dichloropropane	µg/L	10 U	10 U	10 U
1,3-Dichlorobenzene	µg/L	10 U	10 U	10 U
1,4-Dichlorobenzene	µg/L	10 U	10 U	10 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	53	10 U
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	µg/L	10 U	3 J	10 U
Acetone	µg/L	10 U	140	10 U
Benzene	µg/L	10 U	2 J	10 U
Bromodichloromethane	µg/L	10 U	10 U	10 U
Bromoform	µg/L	10 U	10 U	10 U
Bromomethane (Methyl Bromide)	µg/L	10 U	10 U	10 U
Carbon disulfide	µg/L	10 U	3 J	10 U
Carbon tetrachloride	µg/L	10 U	10 U	10 U
Chlorobenzene	µg/L	10 U	10 U	10 U
Chloroethane	µg/L	2 J	10 U	10 U
Chloroform (Trichloromethane)	µg/L	10 U	2 J	10 U
Chloromethane (Methyl Chloride)	µg/L	2 J	2 J	10 U
cis-1,2-Dichloroethene	µg/L	210	56000	10 U
cis-1,3-Dichloropropene	µg/L	10 U	10 U	10 U
Cyclohexane	µg/L	10 U	10 U	10 U
Dibromochloromethane	µg/L	10 U	10 U	10 U

TABLE 3

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
DECEMBER 2009

	Sample Location:	*PW-2*	*PW-3R*	*River*
	Sample Id:	*WG-5020-120809-SG-013*	*WG-5020-120809-SG-009*	*WG-5020-120809-SG-010*
	Sample Date:	*12/8/2009*	*12/8/2009*	*12/8/2009*
Parameters	*Units*			
Volatiles (Cont'd.)				
Dichlorodifluoromethane (CFC-12)	μg/L	10 U	10 U	10 U
Ethylbenzene	μg/L	10 U	10 U	10 U
Isopropylbenzene	μg/L	10 U	10 U	10 U
Methyl acetate	μg/L	10 U	2 J	10 U
Methyl cyclohexane	μg/L	10 U	10 U	10 U
Methyl Tert Butyl Ether	μg/L	10 U	10 U	10 U
Methylene chloride	μg/L	10 U	4 J	10 U
Styrene	μg/L	10 U	10 U	10 U
Tetrachloroethene	μg/L	10 U	12	10 U
Toluene	μg/L	10 U	9 J	10 U
trans-1,2-Dichloroethene	μg/L	3 J	4000 U	10 U
trans-1,3-Dichloropropene	μg/L	10 U	10 U	10 U
Trichloroethene	μg/L	89	23000	10 U
Trichlorofluoromethane (CFC-11)	μg/L	10 U	10 U	10 U
Trifluorotrichloroethane (Freon 113)	μg/L	10 U	10 U	10 U
Vinyl chloride	μg/L	85	13000	10 U
Xylene (total)	μg/L	10 U	10 U	10 U

Notes:

J - Estimated.
U - Non-Detected at associated value.

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
DECEMBER 2009

Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*
VOCs	12/15/09	Acetone	1	WG-5020-120809-003	10 U
				WG-5020-120809-004	10 U
				WG-5020-120809-007	10 U
				WG-5020-120809-008	10 U
				WG-5020-120809-SG-005	10 U
				WG-5020-120809-SG-006	10 U
				WG-5020-120809-SG-011	10 U
				WG-5020-120809-SG-013	10 U

Notes:

U Not detected.
VOCs Volatile Organic Compounds.

TABLE 5

QUALIFIED SAMPLE DATA DUE TO ANALYTE CONCENTRATIONS IN THE TRIP BLANK
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
DECEMBER 2009

Parameter	*Blank Date*	*Analyte*	*Blank Result*	*Associated Sample ID*	*Qualified Sample Result*	*Units*
VOCs	12/08/09	Acetone	1	WG-5020-120809-SG-010	10 U	µg/L

Notes:

U Not detected.
VOCs Volatile Organic Compounds.

TABLE 6

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES
GROUNDWATER MONITORING PROGRAM
DOWCRAFT CORPORATION
JAMESTOWN, NEW YORK
DECEMBER 2009

Parameter	*Associated Sample ID*	*Analyte*	*MS Recovery (percent)*	*MSD Recovery (percent)*	*RPD*	*Control Limits*		*Qualified Sample Result*	*Units*
						Recovery (percent)	*RPD (percent)*		
VOCs	WG-5020-120809-SG-011	Trichloroethene	69	70	1	71-120	14	94 J	µg/L

Notes:

J Estimated.
MS Matrix Spike.
MSD Matrix Spike Duplicate.
RPD Relative Percent Difference.
VOCs Volatile Organic Compounds.

CHAIN OF CUSTODY RECORD

CRA665

CONESTOGA-ROVERS & ASSOCIATES

NF OFFICE

SHIPPED TO (Laboratory Name): H2M

MELVILLE, NY

REFERENCE NUMBER: 5020

DOWCRAFT SEMI-ANNUAL GW SAMPLING

SAMPLER'S SIGNATURE: Shawn Gardner PRINTED NAME: SHAWN GARDNER

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS VOC	REMARKS
	12-8-09	1035	WG-5020-120809-SG-001	WATER	2	2	0913220-005
		1130	WG-5020-120809-SG-002		2	2	-006
		1230	WG-5020-120809-SG-005		2	2	-007
		1255	WG-5020-120809-SG-006		2	2	-008
		1700	WG-5020-120809-SG-009		2	2	-009
		1430	WG-5020-120809-SG-010		2	2	-010
		1450	WG-5020-120809-SG-011		6	6	MS/MSD -011
		1615	WG-5020-120809-SG-012		2	2	-012
		1650	WG-5020-120809-SG-013		2	2	-013
		1315	WG-5020-120809-007		2	2	-007
		1400	WG-5020-120809-008		2	2	-004
		1230	WG-5020-120809-004		2	2	-002
		1145	WG-5020-120809-003		2	2	-001
	↓	-	TB-5020-120809	LAB WATER	2	2	-014

TOTAL NUMBER OF CONTAINERS 32

HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY: ① Shawn Gardner	DATE: 12/9/09 TIME: 1400	RECEIVED BY: ① CBell	DATE: 12/10/09 TIME: 9:30
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:

METHOD OF SHIPMENT: FED EX WAY BILL No.

White	—Fully Executed Copy
Yellow	—Receiving Laboratory Copy
Pink	—Shipper Copy
Goldenrod	—Sampler Copy

SAMPLE TEAM: D TYRAN, D. OSCAR, S. GARDNER

RECEIVED FOR LABORATORY BY: _____ DATE: _____ TIME: _____

Nº CRA 17757

CRA665 A3

1001 (D) APR 28/97(NF) REV. 0 (F-15)