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MONTGOMERY WATSON

000667

April 21, 1998

Michael Bellot
Remedial Project Manager
United States Environmental Protection Agency, Region 5
Mail Code SR-J6
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

Re: Quarterly Groundwater Report
First Round (November 1977)
Blackwell Landfill NPL Site

Dear Mr. Bellot:

On behalf of the Forest Preserve District of DuPage County, we are pleased to submit the Quarterly Groundwater Report for the first round of quarterly sampling undertaken in November 1997. If you have questions on the attached report, please contact me at (630) 691-5000.

Sincerely,

MONTGOMERY WATSON

Walter G. Buettner, P.E.
Supervising Engineer

cc: Rick Lanham – Illinois Environmental Protection Agency
Jerry Hartwig – Forest Preserve District of DuPage County
Manoj Mishra – Tetra Tech EM, Inc.
Kurt Lindland, Assistant Regional Counsel – U.S. EPA
David Barritt – Chapman and Cutler

Attachment

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2100 Corporate Drive
Addison, Illinois
60101

Tel: 630 691 5000
Fax: 630 691 5133

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GROUNDWATER MONITORING REPORT
FIRST ROUND (NOVEMBER 1997)

BLACKWELL FOREST PRESERVE LANDFILL SITE
DUPAGE COUNTY, ILLINOIS

Montgomery Watson File No.: 1252008

Prepared For:

Forest Preserve District of
DuPage County, Illinois

Prepared By:

Montgomery Watson
2100 Corporate Drive
Addison, Illinois 60101

April 1998

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Prepared For:

Forest Preserve District of
DuPage County, Illinois

Prepared by: Tracy Hofmann — 4/21/98
Tracy L. Hofmann, PE — Date

Approved by: Walter G. Buettner — 4/21/98
Walter G. Buettner, PE — Date

Tel 630 691 5000
Fax 630 691 5133

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1.0 INTRODUCTION

Montgomery Watson was retained by the Forest Preserve District (FPD) of DuPage County to develop and implement a two-year quarterly groundwater monitoring program at the Blackwell Landfill NPL Site (Site), located in DuPage County, Illinois (Figure 1). The quarterly groundwater monitoring program is required by the Administrative Order of Consent (AOC), U.S. EPA Docket No. V-W-96-C-341, between U.S. EPA and the FPD.

This report documents the results of the first round of groundwater sampling conducted in November 1997.

2.0 SCOPE OF MONITORING PROGRAM

The scope of the two year quarterly groundwater monitoring program is described in the Revised PreDesign Investigation Report (July 1997) which was approved by the U.S. EPA on August 21, 1997. The objective of the program, as outlined in the Statement of Work (SOW) attached to the AOC, is to monitor groundwater quality in both the upper, glacial outwash aquifer, and the underlying, limestone bedrock aquifer downgradient between the landfill and the Site property line (Figure 2). The analytical results of the monitoring will be used to:

- Provide on-going characterization of groundwater quality downgradient of the Site;
- Confirm that groundwater contaminants do not exceed maximum contaminant levels (MCLs), an excess cancer risk greater than 10^{-6}, or Hazard Index greater than or equal to 1.0, at the Site downgradient boundary;
- Provide baseline groundwater data following cap repair remediation, which may be utilized to estimate contaminant natural attenuation rates; and
- Determine whether reduction of groundwater contaminant loading following cap repairs and in combination with natural attenuation and dilution, will meet 35 IAC 620.410 groundwater standards with time.

Prior to the first round of sampling, a monitoring well/piezometer integrity survey was conducted on the wells proposed for inclusion into the groundwater monitoring program, and five new wells were installed as required by U.S. EPA. The results of the integrity survey and new well installation are documented in Monitoring Well Assessment Report (Montgomery Watson, February 1998). As a result of the survey and new well installation, twenty-nine monitoring wells are included in the quarterly groundwater monitoring program.

The groundwater monitoring program consists of groundwater level measurements and groundwater sampling and analysis. The monitoring wells are divided into:

- Detection monitoring wells, located between the landfill and the downgradient Site boundary;
- Compliance monitoring wells, located along the downgradient Site boundary; and
- Other monitoring wells/piezometers for water level measurement only.

The wells are further divided into those screened in the upper, glacial outwash aquifer (Figure 3) and those screened in the lower, limestone bedrock aquifer (Figure 4). The 29 wells are listed below:

Detection Monitoring Wells

Glacial Outwash Aquifer Wells	Bedrock Wells
G107S	G128D
G117	G135
G118S	G140D
G123	G141D
G126	G145*
G127	
G129	
G130	

Compliance Monitoring Wells

Glacial Outwash Aquifer Wells	Bedrock Wells
G122	G131D
G133S	G133D
G142*	G138
G143*	G139
G144*	G146*

Water Level Wells

Glacial Outwash Aquifer Wells	Bedrock Wells
P2	G132D
G114	G134
G121	G137

Note
* New monitoring wells were installed in October 1997.

The rationale for including these wells in the groundwater monitoring program is discussed in the Revised PreDesign Investigation Report (July 1997).

3.0 SUMMARY OF FIELD ACTIVITIES

3.1 Groundwater Sampling

Groundwater samples were collected from the detection and compliance monitoring wells from November 4 through November 11, 1997 in accordance with procedures described in the U.S. EPA-approved Revised Pre-Design Investigation Activities report, Appendix F (July 1997) and the Quality Assurance Project Plan (QAPP, Volume IV of the Pre-Design Investigation Activities report). These procedures are summarized below:

- Static water levels and total well depth was measured at each monitoring well (Table 1).

- Each monitoring well was purged with a decontaminated, submersible Grundfos™ pump using low-flow methods. New Grundfos™ tubing was used in each well. Wells were purged until field parameters (i.e., temperature, pH, redox, dissolved oxygen, specific conductance, and turbidity) stabilized (Table 2).

- Each monitoring well was sampled from the pump discharge following purging. Samples for dissolved metals and total dissolved solids analyses were filtered using an in-line, 0.45 micron membrane.

- Quality control (QC) samples (e.g., duplicates, field blanks, matrix spike/matrix spike duplicates, and field blanks) were collected at frequencies specified in the QAPP.

- Following collection, the samples were placed in coolers and delivered under strict chain-of-custody to First Environmental Laboratories, Inc. in Naperville, Illinois.

The sampling procedures for monitoring well G140D were modified in the field due to a small obstruction in the well. This obstruction prevented the submersible pump from being lowered to the screened interval. However, with the verbal approval of the U.S. EPA oversight contractor, a stainless steel bailer was successfully lowered to the well bottom, and was used to purge and sample the well.

3.2 Analytical Results

The groundwater samples were analyzed by First Environmental Laboratories, Inc., of Naperville, Illinois for Target Compound List (TCL) volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs), Target Analyte List (TAL) metals, cyanide, chlorides, sulfate, and total dissolved solids. The samples were analyzed in accordance with the analytical methods and required practical quantitation limits outlined in the QAPP. The laboratory-supplied data package was reviewed and validated by Montgomery Watson in accordance with the QAPP and EPA guidance. The validation report has been retained on file at Montgomery Watson, and is available upon request.

The validated analytical results are summarized in Table 3 and show several detections of VOCs, SVOCs, and metals in several of the Detection and Compliance Monitoring Wells. Most of the detections occurred in samples from the Glacial Outwash Aquifer Wells, with few detections in the Bedrock wells.

The U.S. EPA's Maximum Concentration Limits (MCLs) and Illinois Class I Groundwater Standards are also listed in Table 3, and exceedances of these standards are highlighted. A summary of detections, groundwater standards, and exceedances of standards is provided in Table 4. Tables 3 and 4 indicate that:

- There were no detections of VOCs above the U.S. EPA's MCLs or the Illinois Groundwater Standards for Class I groundwater, at any of the detection wells or compliance wells.

- The SVOC bis(2-ethylhexyl)phthalate was detected in samples from four monitoring wells (G117, G128D, G131D, and G146) at concentrations above the U.S. EPA's MCLs (i.e., 6 ug/L) and Illinois Groundwater Standards for Class I groundwater (i.e., 6 ug/L). The maximum concentration detected was 187 ug/L in a sample from well G146. However, as explained below, these detections are considered field or laboratory artifacts that do not represent actual concentrations in site groundwater.

- The SVOC phenol was detected in samples from two monitoring wells (G131D, and G146) at concentrations above the Illinois Groundwater Standards for Class I groundwater (i.e., 100 ug/L). The maximum concentration detected was 160 ug/L in a sample from well G146. However, as explained below, these detections are considered field artifacts that do not represent actual concentrations in site groundwater.

- The concentrations of antimony exceeds both the MCL and Illinois Groundwater Standards of 0.006 mg/L at one well location. The one exceedance was detected in Outwash Compliance well G144 at a concentration of 0.007 mg/L. Well G144 is one of the furthest down gradient wells, and it is located near Springbrook, a potential recharge source.

- The concentrations of iron exceeds the secondary MCL of 0.3 mg/L at eight well locations. Most of the iron exceedances were noted in the Detection Outwash wells, although there were also exceedances in other monitoring wells. The maximum concentration detected was 3.39 mg/L in a sample from Outwash Detection well G127.

- The concentration of manganese exceeds the secondary MCL of 0.05 mg/L, or the Illinois Groundwater Standards for Class I groundwater of 0.15 mg/L, at 12 well locations. As in the case for iron, most of the exceedances were noted in the Detection Outwash wells, although there were also exceedances in other

monitoring wells. The maximum concentration detected was 0.854 mg/L in a sample from well G118S.

- The concentrations of total dissolved solids (TDS) were above the secondary MCL of 500 mg/L in eighteen wells. While the maximum concentration detected was 821 mg/L in a sample from Outwash Detection well G118S, the majority of the exceedances of TDS were noted in the bedrock wells.

As indicated above, the detection of phthalate and phenol during this round of monitoring most likely result from field or laboratory artifacts, and do not represent site impacts. The rationale for this conclusion are as follows:

- Phthalates are associated with plastic materials such as the plastic tubing used during field sampling and in analytical testing. They are common laboratory artifacts; and

- A test conducted by Montgomery Watson indicated that the plastic tubing used in collecting the November 1997 groundwater samples contributed phenol and phthalates to the samples. The test was conducted at flow rates and contact times comparable to the November 1997 sampling procedures. The test results are summarized in a separate report (Montgomery Watson, April 1998), and indicate that phthalates and phenol are released by the plastic tubing at concentrations up to 480 and 440 ug/l respectively. These concentrations detected are of similar magnitude to the concentrations noted from the first round sampling results (see Tables 3 and 4).

3.3 Groundwater Level Measurements

Groundwater elevations were measured on November 19, 1997 prior to the first round of groundwater monitoring. The groundwater elevations are summarized on Table 1.

3.3.1 Upper Aquifer - Glacial Outwash

The potentiometric surface for the upper glacial aquifer is presented on Figure 5. The approximate northern boundary of the glacial aquifer is within the south west portion of the landfill. The direction of groundwater flow in the glacial aquifer is to the south /southwest, and is consistent with the groundwater flow defined in the Revised Remedial Investigation Report (Warzyn, August 1994).

3.3.2 Lower Aquifer - Bedrock

The potentiometric surface for the lower aquifer is presented on Figure 6. The direction of groundwater flow is to the southwest, and is consistent with the groundwater flow defined in the Revised Remedial Investigation Report (Warzyn, August 1994).

4.0 SUMMARY AND CONCLUSIONS

Monitoring activities have been conducted at the Blackwell Landfill NPL site for more than twenty years. Prior to 1980, the monitoring consisted of collecting water levels and performing field analysis of total dissolved solids and chloride. Between 1980 and 1985, more than 50 monitoring wells were installed, and after 1980, the monitoring wells were periodically sampled and analyzed for VOCs. Additional monitoring wells were installed during the Remedial Investigation to refine the understanding of the groundwater flow system, and the interaction between the upper and lower aquifers. Five additional wells were installed during 1997 to complete the detection and compliance monitoring system.

Water levels measurements collected in December 1997 show that the groundwater flow system is unchanged since monitoring began. Groundwater in the upper aquifer near the landfill flows to the south and southwest towards West Branch of the DuPage River. Groundwater flow in the lower aquifer is to the southwest.

The analytical results of the December 1997 sampling of 13 upper aquifer wells and ten lower aquifer wells were also consistent with past monitoring results. Some samples from some of the monitoring wells contained low levels of several VOCs, but there were no detections of VOCs above the U.S. EPA's MCLs or the Illinois Groundwater Standards for Class I groundwater at any of wells. Two SVOCs were detected in several samples at concentrations above either the MCLs or the Illinois Class I Groundwater Standards (e.g., bis(2-ethylhexly)phthalate and phenol). However, these occurrences appear to be sampling or laboratory artifacts, and will be further evaluated in future sampling rounds. In addition, there were several isolated occurrences of inorganic concentrations in excess of the MCLs and/or Illinois Class I Groundwater Standards. However, the exceedances were not high, and were not consistent with a pattern of significant groundwater impacts.

Another round of water level measurements and sampling will be completed upon U.S. EPA approval of the revised Quality Assurance Project Plan.

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TABLES

Table 1
Summary of Groundwater Level Measurements November 1997
Groundwater Monitoring Network
Blackwell Landfill, Du Page County

Deep Monitoring Wells

Well Designation	Depth to Water	TOIC Elevation	Groundwater Elevation	Notes
G128	15.80	707.41	691.61	Detection Well
G131D	14.35	706.03	691.68	Compliance Well
G133D	16.50	708.10	691.60	Compliance Well
G135	27.86	721.07	693.21	Detection Well
G138	17.16	708.69	691.53	Compliance Well
G139	10.47	702.22	691.75	Compliance Well
G140D	13.97	705.71	691.74	Detection Well
G141D	16.72	708.33	691.61	Detection Well
G145	19.63	711.18	691.55	Detection Well
G146	15.20	706.67	691.47	Compliance Well

Shallow Monitoring Wells

Well Designation	Depth to Water	TOIC Elevation	Groundwater Elevation	Notes
G107S	15.49	708.60	693.11	Detection Well
G117	15.13	707.44	692.31	Detection Well
G118S	17.81	711.33	693.52	Detection Well
G122	14.76	706.52	691.76	Compliance Well
G123	15.53	707.77	692.24	Detection Well
G126	12.57	704.50	691.93	Detection Well
G127	14.40	706.66	692.26	Detection Well
G129	10.07	702.86	692.79	Detection Well
G130S	16.70	710.40	693.70	Detection Well
G133S	15.98	708.04	692.06	Compliance Well
G142	16.87	709.17	692.30	Compliance Well
G143	14.16	706.56	692.40	Compliance Well
G144	8.20	701.88	693.68	Compliance Well

Water Level Wells

Well Designation	Depth to Water	TOIC Elevation	Groundwater Elevation	Notes
P2	7.90	694.59	686.69	Glacial Outwash Aquifer Well
G114	16.67	709.40	692.73	Glacial Outwash Aquifer Well
G121	11.95	703.71	691.76	Glacial Outwash Aquifer Well
G132D	27.61	725.99	698.38	Bedrock Well
G134	29.78	727.20	697.42	Bedrock Well
G137	10.41	701.89	691.48	Bedrock Well

Notes

Water level measured on November 19, 1997.

All depth measurements and elevations are in units of feet.

TOIC = Top of inner casing

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TABLE 2
Summary of Field Parameters
Blackwell Landfill, DuPage County, Illinois

Deep Monitoring Wells (Bedrock)

Well Designation	Type of Well	pH	T (deg. C)	Dissolved Oxygen (mg/l)	Specific Conductance (µmhos)	Turbidity (NTUs)	Reduction/ Oxidation Potential (mV)
G128	Detection	7.20	10.77	0.42	0.296	23.7	NM
G131D	Compliance	7.30	NM	NM	NM	NM	NM
G133D	Compliance	7.16	11.09	0.63	0.015	7	351
G135	Detection	8.26	11.03	7.82	0.015	14.8	217
G138	Compliance	7.26	10.04	6.75	0.016	4.4	407
G139	Compliance	7.88	11.07	0.29	0.238	6.1	NM
G140D	Detection	7.08	10.83	1.78	0.016	111	401
G141D	Detection	7.37	3.77	16.15	0.019	6.3	395
G145	Detection	7.26	8.67	2.13	0.016	5.9	378
G146	Compliance	7.33	11.37	0.19	1.017	36.2	NM

Shallow Monitoring Wells (Glacial Outwash)

Well Designation	Type of Well	pH	T (deg. C)	Dissolved Oxygen (mg/l)	Specific Conductance (µmhos)	Turbidity (NTUs)	Reduction/ Oxidation Potential (mV)
G107S	Detection	7.56	10.64	0.5	0.015	24.1	228
G117	Detection	7.52	9.41	9.93	0.014	26.7	NM
G118S	Detection	6.67	8.03	10.61	0.017	5.4	413
G122	Compliance	7.05	12.67	7.62	0.013	4.5	415
G123	Detection	9.33	8.30	12.77	0.015	13.7	NM
G126	Detection	7.06	10.85	10.51	0.016	3.6	413
G127	Detection	7.05	10.51	1.84	0.015	7.8	279
G129	Detection	7.2	9.11	9.83	0.017	5.5	413
G130	Detection	6.27	8.08	11.38	0.017	6.3	426
G133S	Compliance	7.08	10.76	3.11	0.015	141	392
G142	Compliance	7.19	13.86	3.23	1.006	13.6	351
G143	Compliance	7.04	9.79	9.81	0.015	6.2	NM
G144	Compliance	7.12	14.34	0.18	0.377	96.1	NM

Notes
NM = not measured
T = Temperature

Table 3
Validated Analytical Results
Blackwell Landfill, DuPage County, Illinois

Sample / Date / Parameter	EPA MCLs	IEPA Class I Standards	Units	BW-GWG107S-01 11/7/97 Conc	LQ/DVQ	RDL	BW-GWG117-01 11/4/97 Conc	LQ/DVQ	RDL	BW-GWG118S-01 11/10/97 Conc	LQ/DVQ	RDL	BW-GWG122-01 11/10/97 Conc	LQ/DVQ	RDL	BW-GWG123-01 11/4/97 Conc	LQ/DVQ	RDL
Volatiles (ug/L)																		
Acetone		700*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Benzene	5	5	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Bromodichloromethane	100/80 (THM)	0.02a	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Bromoform	100/80 (THM)	0.2a	ug/L		U/UJ	5		U/UJ	5		U/UJ	5		U/UJ	5		U/UJ	5
Bromomethane (Methyl Bromide)		9.8*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2-Butanone (MEK)			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Carbon disulfide		700*	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Carbon tetrachloride	5	5	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Chlorobenzene (Monochlorobenzene)	100	100	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Chlorodibromomethane	100/80 (THM)	140*	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Chloroethane			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Chloroform	100/80 (THM)	0.02a	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Chloromethane			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
1,1-Dichloroethane		7*	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
1,2-Dichloroethane	5	5	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
1,1-Dichloroethene	7	7	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
cis-1,2-Dichloroethene	70	70	ug/L		U/	5		U/	5	21.4	/	5	7.1	/	5		U/	5
trans-1,2-Dichloroethene	100	100	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
1,2-Dichloropropane	5	5	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
cis-1,3-Dichloropropene		1a	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
trans-1,3-Dichloropropene		(cis + trans)	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Ethyl benzene	700	700	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
2-Hexanone (MBK)			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
4-Methyl-2-pentanone (MIBK)			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Methylene chloride (Dichloromethane)	5	5	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Styrene	100	100	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
1,1,2,2-Tetrachloroethane			ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Tetrachloroethene	5	5	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Toluene	1000	1000	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
1,1,1-Trichloroethane	200	200	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
1,1,2-Trichloroethane	5	5	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Trichloroethene	5	5	ug/L		U/	5		U/	5	2.9	J/	5		U/	5		U/	5
Vinyl Acetate		7000*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Vinyl Chloride	2	2	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Xylenes (total)	10000	10000	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Semivolatiles (ug/L)																		
Acenaphthene		420*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Acenaphthylene			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Anthracene	PAH	2100*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Benzidine			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Benzo[a]anthracene	PAH	0.13a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Benzo[b]fluoranthene	PAH	0.18a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Benzo[k]fluoranthene	PAH	0.17a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Benzo[g,h,i]perylene	PAH		ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Benzo[a]pyrene	0.2	0.2	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Benzoic Acid		28000*	ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
Benzyl Alcohol			ug/L		U/	20		U/	20		U/	20		U/	20		U/	20
bis(2-chloroethoxy)methane			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
bis(2-chloroethyl)ether		10a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
bis(2-chloroisopropyl)ether			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
bis(2-ethylhexyl)phthalate	6	6	ug/L		U/	10		[redacted]			U/	10		U/	10		U/	10
4-Bromophenyl-phenylether			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Butylbenzylphthalate		1400*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
4-Chloroaniline		28*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10

Table 3
Validated Analytical Results
Blackwell Landfill, DuPage County, Illinois

Parameter / Sample Date	EPA MCLs	IEPA Class I Standards	Units	BW-GWG107S-01 11/7/97 Conc	LQ/DVQ	RDL	BW-GWG117-01 11/4/97 Conc	LQ/DVQ	RDL	BW-GWG118S-01 11/10/97 Conc	LQ/DVQ	RDL	BW-GWG122-01 11/10/97 Conc	LQ/DVQ	RDL	BW-GWG123-01 11/4/97 Conc	LQ/DVQ	RDL
4-Chloro-3-methylphenol			ug/L		U/	20		U/	20		U/	20		U/	20		U/	20
2-Chloronaphthalene			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2-Chlorophenol		35*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
4-Chlorophenyl-phenylether			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Chrysene	PAH	1.5a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Dibenzo[a,h]anthracene		0.3a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Dibenzofuran			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
1,2-Dichlorobenzene (o)	600	600	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
1,3-Dichlorobenzene (m)			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
1,4-Dichlorobenzene (p)	75	75	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
3,3-Dichorobenzidine		20a	ug/L		U/	20		U/	20		U/	20		U/	20		U/	20
2,4-Dichlorophenol		21*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Diethylphthalate		5600*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2,4-Dimethylphenol		140*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Dimethylphthalate			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Di-n-butylphthalate		700*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
4,6-Dinitro-2-methylphenol			ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
2,4-Dinitrophenol		14*	ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
2,4-Dinitrotoluene		0.02a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2,6-Dinitrotoluene		0.1a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Di-n-octylphthalate		140*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Fluoranthene	PAH	280*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Fluorene	PAH	280*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Hexachlorobenzene	1	0.06a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Hexachlorobutadiene			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Hexachlorocyclopentadiene	50	50	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Hexachloroethane		7*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Indeno[1,2,3-cd]pyrene	PAH	0.43a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Isophorone		1400*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2-Methylnaphthalene			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2-Methylphenol (o-Cresol)		350*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
3&4-Methylphenol (Cresols)			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Naphthalene		25*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2-Nitroaniline			ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
3-Nitroaniline			ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
4-Nitroaniline			ug/L		U/	20		U/	20		U/	20		U/	20		U/	20
Nitrobenzene		3.5*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2-Nitrophenol			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
4-Nitrophenol			ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
N-Nitrosodimethylamine			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
N-Nitroso-di-n-propylamine		10a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
N-Nitrosodiphenylamine		10a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Pentachlorophenol	1	1	ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
Phenanthrene	PAH		ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Phenol		100	ug/L		U/	10	46	/	10	33	/	10	12	/	10	21	/	10
Pyrene	PAH	210*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
1,2,4-Trichlorobenzene	70	70	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2,4,5-Trichlorophenol		700*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2,4,6-Trichlorophenol		6.4a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10

Table 3
Validated Analytical Results
Blackwell Landfill, DuPage County, Illinois

Parameter / Sample Date	EPA MCLs	IEPA Class I Standards	Units	BW-GWG107S-01 11/7/97			BW-GWG117-01 11/4/97			BW-GWG118S-01 11/10/97			BW-GWG122-01 11/10/97			BW-GWG123-01 11/4/97		
				Conc	LQ/DVQ	RDL	Conc	LQ/DVQ	RDL	Conc	LQ/DVQ	RDL	Conc	LQ/DVQ	RDL	Conc	LQ/DVQ	RDL
Inorganics (mg/L)																		
Aluminum	0.05 - 0.2**		mg/L		U/	0.05		U/	0.05		U/	0.05		U/	0.05		U/	0.05
Antimony	0.006	0.006	mg/L	0.003	/	0.002		U/	0.002		U/UJ	0.002		U/UJ	0.002		U/	0.002
Arsenic	0.05	0.05	mg/L		U/	0.002		U/	0.002		U/	0.002		U/	0.002		U/	0.002
Barium	2	2	mg/L	0.063	/	0.001	0.066	/	0.001	0.05	/	0.001	0.054	/	0.001	0.031	/	0.001
Beryllium	0.004	0.004	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		U/	0.001
Cadmium	0.005	0.005	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		U/	0.001
Calcium			mg/L	61.8	/	0.1	85.9	/	0.1	153	/	0.1	87.5	/	0.1	85.3	/	0.1
Chromium (total)	0.1	0.1	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		U/	0.001
Cobalt		1	mg/L		U/	0.001	0.001	/	0.001		U/	0.001		U/	0.001		U/	0.001
Copper	1.3 (at tap)+	0.65	mg/L		U/	0.001		U/	0.001	0.001	/	0.001		U/	0.00		U/	0.001
Iron	0.3**	5	mg/L	**1.18**	/	0.01	**1.51**	/	0.01		U/	0.01		U/	0.01		U/	0.01
Lead	0.015+	0.0075	mg/L		U/	0.002		U/	0.002		U/	0.002		U/	0.002		U/	0.002
Magnesium			mg/L	31.9	/	0.1	38	/	0.1	75.1	/	0.1	40.6	/	0.1	35	/	0.1
Manganese	0.05**	0.15	mg/L	**0.06**	/	0.001	**0.126**	/	0.001							0.017	/	0.001
Mercury	0.002 (inorganic)	0.002	mg/L		U/	0.0005		U/	0.0005		U/	0.0005		U/	0.0005		U/	0.0005
Nickel	0.1	0.1	mg/L		U/	0.001		U/	0.001	0.005	/	0.001		U/	0.001		U/	0.001
Potassium			mg/L	2.3	/	0.1	3.9	/	0.1	0.9	/	0.1	1.7	/	0.1	1.6	/	0.1
Selenium	0.05	0.05	mg/L		U/	0.002		U/	0.002		U/	0.002		U/	0.002		U/	0.002
Silver	0.1**	0.05	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		U/	0.001
Sodium			mg/L	12.9	/		24.6	/		4.1	/		13.3	/		4.2	/	
Thallium	0.002	0.002	mg/L		U/	0.002		U/	0.002		U/	0.002		U/	0.002		U/	0.002
Vanadium		0.049*	mg/L		U/	0.01		U/	0.01		U/	0.01		U/	0.01		U/	0.01
Zinc	5**	5	mg/L		U/	0.005		U/	0.005	0.005	/	0.005		U/	0.005		U/	0.005
Cyanide	0.2	0.2	mg/L		U/	0.005		U/	0.005		U/	0.005		U/	0.005		U/	0.005
Chloride	250**	200	mg/L		U/	5	22	/	5		U/	5	16	/	5		U/	5
Sulfate	500	400	mg/L	46	/	15	65	/	15	198	/	15	31	/	15	28	/	15
Total Dissolved Solids	500**	1200	mg/L	327	/	1	465	/	1	**821**	/	1	483	/	1	361	/	1

*not listed as standard in 620.410:
* ' Secondary MCLs:
a - Health Advisory Concentration equal to ADL for carcinogens
+ Action Level listed in Drinking Water Regulations
THM - Total for all THMs cannot exceed the 80ug/l level
PHA - Polyaromatic Hydrocarbon

Bold = Exceeds MCLS
[redacted]

Sample Label Identifiers
BW - Blackwell
GW - groundwater
G107 - well identification

FB - field blank
TB - trip blank
VB - volatile blank

SVB - semi-volatile blank
-01 - sample
-91 - duplicate sample

Qualifier Definitions
The table presents any detected concentrations, followed by the Lab Qualifiers / Data Validation Qualifiers, followed by the reported detection limit.
U/ - Not detected
/U - Not detected, blank contamination
J/ - Estimated value
/UJ - Not detected, estimated detection limit
/J - Estimated value, data qualifier added
/R - Unusable, data qualifier added
S/ - Analysis performed using MSA
*/ - Duplicate outside control limits
B/ - Detected, but below CRDL (Inorganics only)
B/ - Also detected in method blank (Organics only)
N/ - Matrix spike outside control limits

Table 3
Validated Analytical Results
Blackwell Landfill, DuPage County, Illinois

Parameter / Sample Date	EPA MCLs	IEPA Class I Standards	Units	BW-GWG126-01 11/10/97 Conc	LQ/DVQ	RDL	BW-GWG127-01 11/10/97 Conc	LQ/DVQ	RDL	BW-GWG128D-01 11/4/97 Conc	LQ/DVQ	RDL	BW-GWG129-01 11/10/97 Conc	LQ/DVQ	RDL	BW-GWG130-01 11/10/97 Conc	LQ/DVQ	RDL
Volatiles (ug/L)																		
Acetone		700*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Benzene	5	5	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Bromodichloromethane	100/80 (THM)	0.02a	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Bromoform	100/80 (THM)	0.2a	ug/L		U/UJ	5		U/UJ	5		U/UJ	5		U/UJ	5		U/UJ	5
Bromomethane (Methyl Bromide)		9.8*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2-Butanone (MEK)			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Carbon disulfide		700*	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Carbon tetrachloride	5	5	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Chlorobenzene (Monochlorobenzene)	100	100	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Chlorodibromomethane	100/80 (THM)	140*	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Chloroethane			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Chloroform	100/80 (THM)	0.02a	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Chloromethane			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
1,1-Dichloroethane		7*	ug/L		U/	5	3.4	J/J	5		U/	5		U/	5		U/	5
1,2-Dichloroethane	5	5	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
1,1-Dichloroethene	7	7	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
cis-1,2-Dichloroethene	70	70	ug/L	10.3	/	5	30.3	/	5		U/	5		U/	5		U/	5
trans-1,2-Dichloroethene	100	100	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
1,2-Dichloropropane	5	5	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
cis-1,3-Dichloropropene		1a	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
trans-1,3-Dichloropropene		(cis + trans)	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Ethyl benzene	700	700	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
2-Hexanone (MBK)			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
4-Methyl-2-pentanone (MIBK)			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Methylene chloride (Dichloromethane)	5	5	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Styrene	100	100	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
1,1,2,2-Tetrachloroethane			ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Tetrachloroethene	5	5	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Toluene	1000	1000	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
1,1,1-Trichloroethane	200	200	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
1,1,2-Trichloroethane	5	5	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Trichloroethene	5	5	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Vinyl Acetate		7000*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Vinyl Chloride	2	2	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Xylenes (total)	10000	10000	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Semivolatiles (ug/L)																		
Acenaphthene		420*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Acenaphthylene			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Anthracene	PAH	2100*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Benzidine			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Benzo[a]anthracene	PAH	0.13a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Benzo[b]fluoranthene	PAH	0.18a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Benzo[k]fluoranthene	PAH	0.17a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Benzo[g,h,i]perylene	PAH		ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Benzo[a]pyrene	0.2	0.2	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Benzoic Acid		28000*	ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
Benzyl Alcohol			ug/L		U/	20		U/	20		U/	20		U/	20		U/	20
bis(2-chloroethoxy)methane			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
bis(2-chloroethyl)ether		10a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
bis(2-chloroisopropyl)ether			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
bis(2-ethylhexyl)phthalate	6	6	ug/L		U/	10		U/	10					U/	10		U/	10
4-Bromophenyl-phenylether			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Butylbenzylphthalate		1400*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
4-Chloroaniline		28*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10

Table 3
Validated Analytical Results
Blackwell Landfill, DuPage County, Illinois

Parameter / Sample / Date	EPA MCLs	IEPA Class I Standards	Units	BW-GWG126-01 11/10/97 Conc	LQ/DVQ	RDL	BW-GWG127-01 11/10/97 Conc	LQ/DVQ	RDL	BW-GWG128D-01 11/4/97 Conc	LQ/DVQ	RDL	BW-GWG129-01 11/10/97 Conc	LQ/DVQ	RDL	BW-GWG130-01 11/10/97 Conc	LQ/DVQ	RDL
4-Chloro-3-methylphenol			ug/L		U/	20		U/	20		U/	20		U/	20		U/	20
2-Chloronaphthalene			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2-Chlorophenol		35*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
4-Chlorophenyl phenylether			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Chrysene	PAH	1.5a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Dibenzo[a,h]anthracene		0.3a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Dibenzofuran			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
1,2-Dichlorobenzene (o)	600	600	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
1,3-Dichlorobenzene (m)			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
1,4-Dichlorobenzene (p)	75	75	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
3,3-Dichorobenzidine		20a	ug/L		U/	20		U/	20		U/	20		U/	20		U/	20
2,4-Dichlorophenol		21*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Diethylphthalate		5600*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2,4-Dimethylphenol		140*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Dimethylphthalate			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Di-n-butylphthalate		700*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
4,6-Dinitro-2-methylphenol			ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
2,4-Dinitrophenol		14*	ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
2,4-Dinitrotoluene		0.02a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2,6-Dinitrotoluene		0.1a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Di-n-octylphthalate		140*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Fluoranthene	PAH	280*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Fluorene	PAH	280*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Hexachlorobenzene	1	0.06a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Hexachlorobutadiene			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Hexachlorocyclopentadiene	50	50	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Hexachloroethane		7*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Indeno[1,2,3-cd]pyrene	PAH	0.43a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Isophorone		1400*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2-Methylnaphthalene			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2-Methylphenol (o-Cresol)		350*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
3&4-Methylphenol (C··sols)			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Naphthalene		25*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2-Nitroaniline			ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
3-Nitroaniline			ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
4-Nitroaniline			ug/L		U/	20		U/	20		U/	20		U/	20		U/	20
Nitrobenzene		3.5*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2-Nitrophenol			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
4-Nitrophenol			ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
N-Nitrosodimethylamine			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
N-Nitroso-di-n-propylamine		10a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
N-Nitrosodiphenylamine		10a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Pentachlorophenol	1	1	ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
Phenanthrene	PAH		ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Phenol		100	ug/L	27	/	10	26	/	10	40	/	10	20	/	10		U/	10
Pyrene	PAH	210*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
1,2,4-Trichlorobenzene	70	70	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2,4,5-Trichlorophenol		700*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2,4,6-Trichlorophenol		6.4a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10

Table 3
Validated Analytical Results
Blackwell Landfill, DuPage County, Illinois

Parameter / Sample Date	EPA MCLs	IEPA Class I Standards	Units	BW-GW0126-01 11/10/97 Conc	LQ/DVQ	RDL	BW-GW0127-01 11/10/97 Conc	LQ/DVQ	RDL	BW-GW0128D-01 11/4/97 Conc	LQ/DVQ	RDL	BW-GW0129-01 11/10/97 Conc	LQ/DVQ	RDL	BW-GW0130-01 11/10/97 Conc	LQ/DVQ	RDL
Inorganics (mg/L)																		
Aluminum	0.05 - 0.2**		mg/L		U/	0.05		U/	0.05		U/	0.05		U/	0.05		U/	0.05
Antimony	0.006	0.006	mg/L		U/UJ	0.002		U/UJ	0.002		U/	0.002		U/UJ	0.002		U/UJ	0.002
Arsenic	0.05	0.05	mg/L		U/	0.002		U/	0.002		U/	0.002		U/	0.002		U/	0.002
Barium	2	2	mg/L	0.065	/	0.001	0.058	/	0.001	0.073	/	0.001	0.047	/	0.001	0.098	/	0.001
Beryllium	0.004	0.004	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		U/	0.001
Cadmium	0.005	0.005	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		U/	0.001
Calcium			mg/L	88.1	/	0.1	87.9	/	0.1	92.9	/	0.1	75.9	/	0.1	105	/	0.1
Chromium (total)	0.1	0.1	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		U/	0.001
Cobalt		1	mg/L		U/	0.001		U/	0.001	0.001	/	0.001		U/	0.001		U/	0.001
Copper	1.3 (at tap)+	0.65	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		U/	0.001
Iron	0.3**	5	mg/L		U/	0.01	**3.39**	/	0.01	**1.16**	/	0.01	**0.98**	/	0.01		U/	0.01
Lead	0.015+	0.0075	mg/L		U/	0.002		U/	0.002		U/	0.002		U/	0.002		U/	0.002
Magnesium			mg/L	47.9	/	0.1	39.9	/	0.1	45.2	/	0.1	41	/	0.1	63.9	/	0.1
Manganese	0.05**	0.15	mg/L							**0.057**	/	0.001	**0.09**	/	0.001		U/	0.001
Mercury	0.002 (inorganic)	0.002	mg/L		U/	0.0005		U/	0.0005		U/	0.0005		U/	0.0005		U/	0.0005
Nickel	0.1	0.1	mg/L		U/	0.001		U/	0.001		U/	0.001	0.006	/	0.001		U/	0.001
Potassium			mg/L	4.6	/	0.1	3.1	/	0.1	3.8	/	0.1	2.7	/	0.1	3.8	/	0.1
Selenium	0.05	0.05	mg/L		U/	0.002		U/	0.002		U/	0.002		U/	0.002		U/	0.002
Silver	0.1**	0.05	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		U/	0.001
Sodium			mg/L	57.6	/		14.9	/		31.1	/		25.3	/		58.1	/	
Thallium	0.002	0.002	mg/L		U/	0.002		U/	0.002		U/	0.002		U/	0.002		U/	0.002
Vanadium		0.049*	mg/L		U/	0.01		U/	0.01		U/	0.01		U/	0.01		U/	0.01
Zinc	5**	5	mg/L		U/	0.005		U/	0.005		U/	0.005	0.005	/	0.005	0.007	/	0.005
Cyanide	0.2	0.2	mg/L		U/	0.005		U/	0.005		U/	0.005		U/	0.005		U/	0.005
Chloride	250**	200	mg/L	106	/	5	40	/	5	36	/	5	32	/	5	116	/	5
Sulfate	500	400	mg/L	76	/	15	65	/	15	71	/	15	62	/	15	86	/	15
Total Dissolved Solids	500**	1200	mg/L	**636**	/	1	482	/	1	**516**	/	1	447	/	1	**795**	/	1

*not listed as standard in 620.410:
** Secondary MCLs:
a - Health Advisory Concentration equal to ADL for carcinogens
+ Action Level listed in Drinking Water Regulations
THM - Total for all THMs cannot exceed the 80ug/l level
PHA - Polyaromatic Hydrocarbon

Bold = Exceeds MCLS
[redacted]

Sample Label Identifiers:
BW - Blackwell
GW - groundwater
G107 - well identification
FB - field blank
TB - trip blank
VB - volatile blank
SVB - semi-volati
-01 - sample
-91 - duplicate sar

Qualifier Definitions:
The table presents any detected concentrations, followed by the Lab Qualifiers / Data Validation Qualifiers, follo
U/ - Not detected
/U - Not detected, blank contamination
J/ - Estimated value
/UJ - Not detected, estimated detection limit
/J - Estimated value, data qualifier added
/R - Unusable, data qualifier added
S/ - Analysis performed using MSA
*/ - Duplicate outside control limits

Table 3
Validated Analytical Results
Blackwell Landfill, DuPage County, Illinois

Parameter / Sample Date	EPA MCLs	IEPA Class I Standards	Units	BW-GW[illegible]D-01 11/[illegible]/97 Conc	LQ/DVQ	RDL	BW-GW[illegible]-01 11/[illegible]/97 Conc	LQ/DVQ	RDL	BW-GW1338-01 11/6/97 Conc	LQ/DVQ	RDL	BW-GW1335-01 11/[illegible]/97 Conc	LQ/DVQ	RDL	BW-GW1338-01 11/7/97 Conc	LQ/DVQ	RDL
Volatiles (ug/L)																		
Acetone		700*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Benzene	5	5	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Bromodichloromethane	100/80 (THM)	0.02a	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Bromoform	100/80 (THM)	0.2a	ug/L		U/UJ	5		U/UJ	5		U/UJ	5		U/UJ	5		U/UJ	5
Bromomethane (Methyl Bromide)		9.8*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2-Butanone (MEK)			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Carbon disulfide		700*	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Carbon tetrachloride	5	5	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Chlorobenzene (Monochlorobenzene)	100	100	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Chlorodibromomethane	100/80 (THM)	140*	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Chloroethane			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Chloroform	100/80 (THM)	0.02a	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Chloromethane			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
1,1-Dichloroethane		7*	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
1,2-Dichloroethane	5	5	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
1,1-Dichloroethene	7	7	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
cis-1,2-Dichloroethene	70	70	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
trans-1,2-Dichloroethene	100	100	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
1,2-Dichloropropane	5	5	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
cis-1,3-Dichloropropene		1a	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
trans-1,3-Dichloropropene		(cis + trans)	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Ethyl benzene	700	700	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
2-Hexanone (MBK)			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
4-Methyl-2-pentanone (MIBK)			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Methylene chloride (Dichloromethane)	5	5	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Styrene	100	100	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
1,1,2,2-Tetrachloroethane			ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Tetrachloroethene	5	5	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Toluene	1000	1000	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
1,1,1-Trichloroethane	200	200	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
1,1,2-Trichloroethane	5	5	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Trichloroethene	5	5	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Vinyl Acetate		7000*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Vinyl Chloride	2	2	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Xylenes (total)	10000	10000	ug/L		U/	5		U/	5		U/	5		U/	5		U/	5
Semivolatiles (ug/L)																		
Acenaphthene		420*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Acenaphthylene			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Anthracene	PAH	2100*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Benzidine			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Benzo[a]anthracene	PAH	0.13a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Benzo[b]fluoranthene	PAH	0.18a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Benzo[k]fluoranthene	PAH	0.17a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Benzo[g,h,i]perylene	PAH		ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Benzo[a]pyrene	0.2	0.2	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Benzoic Acid		28000*	ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
Benzyl Alcohol			ug/L		U/	20		U/	20		U/	20		U/	20		U/	20
bis(2-chloroethoxy)methane			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
bis(2-chloroethyl)ether		10a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
bis(2-chloroisopropyl)ether			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
bis(2-ethylhexyl)phthalate	6	6	ug/L					U/	10		U/	10		U/	10		U/	10
4-Bromophenyl-phenylether			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Butylbenzylphthalate		1400*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
4-Chloroaniline		28*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10

Table 3
Validated Analytical Results
Blackwell Landfill, DuPage County, Illinois

Parameter / Sample Date	EPA MCLs	IEPA Class I Standards	Units	BW-GWG133D-01 11/6/97 Conc	LQ/DVQ	RDL	BW-GWG133D-02 11/6/97 Conc	LQ/DVQ	RDL	BW-GWG133S-01 11/6/97 Conc	LQ/DVQ	RDL	BW-GWG135-01 11/6/97 Conc	LQ/DVQ	RDL	BW-GWG138-01 11/7/97 Conc	LQ/DVQ	RDL
4-Chloro-3-methylphenol			ug/L		U/	20		U/	20		U/	20		U/	20		U/	20
2-Chloronaphthalene			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2-Chlorophenol		35*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
4-Chlorophenyl-phenylether			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Chrysene	PAH	1.5a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Dibenzo[a,h]anthracene		0.3a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Dibenzofuran			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
1,2-Dichlorobenzene (o)	600	600	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
1,3-Dichlorobenzene (m)			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
1,4-Dichlorobenzene (p)	75	75	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
3,3-Dichorobenzidine		20a	ug/L		U/	20		U/	20		U/	20		U/	20		U/	20
2,4-Dichlorophenol		21*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Diethylphthalate		5600*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2,4-Dimethylphenol		140*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Dimethylphthalate			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Di-n-butylphthalate		700*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
4,6-Dinitro-2-methylphenol			ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
2,4-Dinitrophenol		14*	ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
2,4-Dinitrotoluene		0.02a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2,6-Dinitrotoluene		0.1a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Di-n-octylphthalate		140*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Fluoranthene	PAH	280*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Fluorene	PAH	280*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Hexachlorobenzene	1	0.06a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Hexachlorobutadiene			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Hexachlorocyclopentadiene	50	50	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Hexachloroethane		7*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Indeno[1,2,3-cd]pyrene	PAH	0.43a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Isophorone		1400*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2-Methylnaphthalene			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2-Methylphenol (o-Cresol)		350*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
3&4-Methylphenol (Cresols)			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Naphthalene		25*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2-Nitroaniline			ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
3-Nitroaniline			ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
4-Nitroaniline			ug/L		U/	20		U/	20		U/	20		U/	20		U/	20
Nitrobenzene		3.5*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2-Nitrophenol			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
4-Nitrophenol			ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
N-Nitrosodimethylamine			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
N-Nitroso-di-n-propylamine		10a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
N-Nitrosodiphenylamine		10a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Pentachlorophenol	1	1	ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
Phenanthrene	PAH		ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Phenol		100	ug/L				21	/	10		U/	10		U/	10		U/	10
Pyrene	PAH	210*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
1,2,4-Trichlorobenzene	70	70	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2,4,5-Trichlorophenol		700*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2,4,6-Trichlorophenol		6.4a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10

Table 3
Validated Analytical Results
Blackwell Landfill, DuPage County, Illinois

Parameter / Sample Date	EPA MCLs	IEPA Class I Standards	Units	BW-GWG133D-01 11/6/97			BW-GWG133D-01 11/6/97			BW-GWG133S-01 11/6/97			BW-GWG135-01 11/6/97			BW-GWG138-01 11/7/97		
				Conc	LQ/DVQ	RDL	Conc	LQ/DVQ	RDL	Conc	LQ/DVQ	RDL	Conc	LQ/DVQ	RDL	Conc	LQ/DVQ	RDL
Inorganics (mg/L)																		
Aluminum	0.05 - 0.2**		mg/L		U/	0.05		U/	0.05		U/	0.05		U/	0.05		U/	0.05
Antimony	0.006	0.006	mg/L		U/	0.002		U/	0.002		U/	0.002		U/	0.002	0.002	/	0.002
Arsenic	0.05	0.05	mg/L		U/	0.002		U/	0.002		U/	0.002		U/	0.002		U/	0.002
Barium	2	2	mg/L	0.204	/	0.001	0.078	/	0.001	0.058	/	0.001	0.044	/	0.001	0.088	/	0.001
Beryllium	0.004	0.004	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		U/	0.001
Cadmium	0.005	0.005	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		U/	0.001
Calcium			mg/L	270	/	0.1	95.8	/	0.1	103	/	0.1	46.2	/	0.1	99.8	/	0.1
Chromium (total)	0.1	0.1	mg/L	0.032	/	0.001		U/	0.001		U/	0.001		U/	0.001		U/	0.001
Cobalt		1	mg/L	0.002	/	0.001		U/	0.001		U/	0.001		U/	0.001	0.002	/	0.001
Copper	1.3 (at tap)+	0.65	mg/L	0.002	/	0.001		U/	0.001		U/	0.001		U/	0.001		U/	0.001
Iron	0.3**	5	mg/L		U/	0.01	0.02	/	0.01		U/	0.01	0.25	/	0.01	0.09	/	0.01
Lead	0.015+	0.0075	mg/L		U/	0.002		U/	0.002		U/	0.002		U/	0.002		U/	0.002
Magnesium			mg/L		U/	0.1	48.8	/	0.1	55.3	/	0.1	38.5	/	0.1	53.8	/	0.1
Manganese	0.05**	0.15	mg/L		U/	0.001	0.031	/	0.001		U/	0.001	0.002	/	0.001	**0.063**	/	0.001
Mercury	0.002 (inorganic)	0.002	mg/L		U/	0.0005		U/	0.0005		U/	0.0005		U/	0.0005		U/	0.0005
Nickel	0.1	0.1	mg/L	0.005	/	0.001		U/	0.001		U/	0.001		U/	0.001	0.002	/	0.001
Potassium			mg/L	7.8	/	0.1	5	/	0.1	4.9	/	0.1	3	/	0.1	4.9	/	0.1
Selenium	0.05	0.05	mg/L		U/	0.002		U/	0.002		U/	0.002		U/	0.002		U/	0.002
Silver	0.1**	0.05	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		U/	0.001
Sodium			mg/L	21.7	/		38.8	/		63.4	/		19.6	/		57.9	/	
Thallium	0.002	0.002	mg/L		U/	0.002		U/	0.002		U/	0.002		U/	0.002		U/	0.002
Vanadium		0.049*	mg/L		U/	0.01		U/	0.01		U/	0.01		U/	0.01		U/	0.01
Zinc	5**	5	mg/L		U/	0.005		U/	0.005		U/	0.005		U/	0.005		U/	0.005
Cyanide	0.2	0.2	mg/L		U/	0.005		U/	0.005		U/	0.005		U/	0.005		U/	0.005
Chloride	250**	200	mg/L	46	/	5	66	/	5	128	/	5	14	/	5	100	/	5
Sulfate	500	400	mg/L	42	/	15	71	/	15	91	/	15	58	/	15	110	/	15
Total Dissolved Solids	500**	1200	mg/L	**766**	/	1	**588**	/	1	**723**	/	1	375	/	1	**622**	/	1

*not listed as standard in 620.410:

** Secondary MCLs:

a - Health Advisory Concentration equal to ADL for carcinogens

+ Action Level listed in Drinking Water Regulations

THM - Total for all THMs cannot exceed the 80ug/l level

PHA - Polyaromatic Hydrocarbon

Bold = Exceeds MCLS

Sample Label Identifiers:

BW - Blackwell	FB - field blank	SVB - semi-volati
GW - groundwater	TB - trip blank	-01 - sample
G107 - well identification	VB - volatile blank	-91 - duplicate san

Qualifier Definitions:

The table presents any detected concentrations, followed by the Lab Qualifiers / Data Validation Qualifiers, follo

U/ - Not detected	/J - Estimated value, data qualifier added
/U - Not detected, blank contamination	/R - Unusable, data qualifier added
J/ - Estimated value	S/ - Analysis performed using MSA
/UJ - Not detected, estimated detection limit	*/ - Duplicate outside control limits

Table 3
Validated Analytical Results
Blackwell Landfill, DuPage County, Illinois

Sample / Date / Parameter	EPA MCLs	IEPA Class I Standards	Units	BW-GWG138-01 11/7/97 Conc	LQ/DVQ	RDL	BW-GWG139-01 11/5/97 Conc	LQ/DVQ	RDL	BW-GWG140D-01 11/7/97 Conc	LQ/DVQ	RDL	BW-GWG141-01 11/11/97 Conc	LQ/DVQ	RDL	BW-GWG141-91 11/11/97 Conc	LQ/DVQ	RDL
Volatiles (ug/L)																		
Acetone		700*	ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
Benzene	5	5	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Bromodichloromethane	100/80 (THM)	0.02a	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Bromoform	100/80 (THM)	0.2a	ug/L	U/UJ	5		U/UJ	5		U/UJ	5		U/UJ	5		U/UJ	5	
Bromomethane (Methyl Bromide)		9.8*	ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
2-Butanone (MEK)			ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
Carbon disulfide		700*	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Carbon tetrachloride	5	5	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Chlorobenzene (Monochlorobenzene)	100	100	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Chlorodibromomethane	100/80 (THM)	140*	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Chloroethane			ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
Chloroform	100/80 (THM)	0.02a	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Chloromethane			ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
1,1-Dichloroethane		7*	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
1,2-Dichloroethane	5	5	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
1,1-Dichloroethene	7	7	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
cis-1,2-Dichloroethene	70	70	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
trans-1,2-Dichloroethene	100	100	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
1,2-Dichloropropane	5	5	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
cis-1,3-Dichloropropene		1a	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
trans-1,3-Dichloropropene		(cis + trans)	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Ethyl benzene	700	700	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
2-Hexanone (MBK)			ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
4-Methyl-2-pentanone (MIBK)			ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
Methylene chloride (Dichloromethane)	5	5	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Styrene	100	100	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
1,1,2,2-Tetrachloroethane			ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Tetrachloroethene	5	5	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Toluene	1000	1000	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
1,1,1-Trichloroethane	200	200	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
1,1,2-Trichloroethane	5	5	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Trichloroethene	5	5	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Vinyl Acetate		7000*	ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
Vinyl Chloride	2	2	ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
Xylenes (total)	10000	10000	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Semivolatiles (ug/L)																		
Acenaphthene		420*	ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
Acenaphthylene			ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
Anthracene	PAH	2100*	ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
Benzidine			ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
Benzo[a]anthracene	PAH	0.13a	ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
Benzo[b]fluoranthene	PAH	0.18a	ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
Benzo[k]fluoranthene	PAH	0.17a	ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
Benzo[g,h,i]perylene	PAH		ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
Benzo[a]pyrene	0.2	0.2	ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
Benzoic Acid		28000*	ug/L	U/	50		U/	50		U/	50		U/	50		U/	50	
Benzyl Alcohol			ug/L	U/	20		U/	20		U/	20		U/	20		U/	20	
bis(2-chloroethoxy)methane			ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
bis(2-chloroethyl)ether		10a	ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
bis(2-chloroisopropyl)ether			ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
bis(2-ethylhexyl)phthalate	6	6	ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
4-Bromophenyl-phenylether			ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
Butylbenzylphthalate		1400*	ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
4-Chloroaniline		28*	ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	

Table 3
Validated Analytical Results
Blackwell Landfill, DuPage County, Illinois

Parameter / Sample / Date	EPA MCLs	IEPA Class I Standards	Units	BW-GWG138-91 11/7/97 Conc	LQ/DVQ	RDL	BW-GWG139-01 11/5/97 Conc	LQ/DVQ	RDL	BW-GWG140D-01 11/7/97 Conc	LQ/DVQ	RDL	BW-GWG141-01 11/11/97 Conc	LQ/DVQ	RDL	BW-GWG141-91 11/11/97 Conc	LQ/DVQ	RDL
4-Chloro-3-methylphenol			ug/L	U/		20	U/		20	U/		20	U/		20	U/		20
2-Chloronaphthalene			ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
2-Chlorophenol		35*	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
4-Chlorophenyl phenylether			ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Chrysene	PAH	1.5a	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Dibenzo[a,h]anthracene		0.3a	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Dibenzofuran			ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
1,2-Dichlorobenzene (o)	600	600	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
1,3-Dichlorobenzene (m)			ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
1,4-Dichlorobenzene (p)	75	75	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
3,3-Dichorobenzidine		20a	ug/L	U/		20	U/		20	U/		20	U/		20	U/		20
2,4-Dichlorophenol		21*	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Diethylphthalate		5600*	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
2,4-Dimethylphenol		140*	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Dimethylphthalate			ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Di-n-butylphthalate		700*	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
4,6-Dinitro-2-methylphenol			ug/L	U/		50	U/		50	U/		50	U/		50	U/		50
2,4-Dinitrophenol		14*	ug/L	U/		50	U/		50	U/		50	U/		50	U/		50
2,4-Dinitrotoluene		0.02a	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
2,6-Dinitrotoluene		0.1a	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Di-n-octylphthalate		140*	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Fluoranthene	PAH	280*	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Fluorene	PAH	280*	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Hexachlorobenzene	1	0.06a	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Hexachlorobutadiene			ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Hexachlorocyclopentadiene	50	50	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Hexachloroethane		7*	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Indeno[1,2,3-cd]pyrene	PAH	0.43a	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Isophorone		1400*	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
2-Methylnaphthalene			ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
2-Methylphenol (o-Cresol)		350*	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
3&4-Methylphenol (Cresols)			ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Naphthalene		25*	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
2-Nitroaniline			ug/L	U/		50	U/		50	U/		50	U/		50	U/		50
3-Nitroaniline			ug/L	U/		50	U/		50	U/		50	U/		50	U/		50
4-Nitroaniline			ug/L	U/		20	U/		20	U/		20	U/		20	U/		20
Nitrobenzene		3.5*	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
2-Nitrophenol			ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
4-Nitrophenol			ug/L	U/		50	U/		50	U/		50	U/		50	U/		50
N-Nitrosodimethylamine			ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
N-Nitroso-di-n-propylamine		10a	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
N-Nitrosodiphenylamine		10a	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Pentachlorophenol	1	1	ug/L	U/		50	U/		50	U/		50	U/		50	U/		50
Phenanthrene	PAH		ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Phenol		100	ug/L	U/		10	50	/	10	15	/	10	U/		10	U/		10
Pyrene	PAH	210*	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
1,2,4-Trichlorobenzene	70	70	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
2,4,5-Trichlorophenol		700*	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
2,4,6-Trichlorophenol		6.4a	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10

Table 3
Validated Analytical Results
Blackwell Landfill, DuPage County, Illinois

Parameter / Sample Date	EPA MCLs	IEPA Class I Standards	Units	BW-GWG138-91 11/7/97			BW-GWG139-01 11/5/97			BW-GWG140D-01 11/7/97			BW-GWG141-01 11/11/97			BW-GWG141-91 11/11/97		
				Conc	LQ/DVQ	RDL	Conc	LQ/DVQ	RDL	Conc	LQ/DVQ	RDL	Conc	LQ/DVQ	RDL	Conc	LQ/DVQ	RDL
Inorganics (mg/L)																		
Aluminum	0.05 - 0.2**		mg/L		U/	0.05		U/	0.05		U/	0.05		U/	0.05		U/	0.05
Antimony	0.006	0.006	mg/L		U/	0.002	0.002	/	0.002		U/	0.002		U/UJ	0.002		U/UJ	0.002
Arsenic	0.05	0.05	mg/L		U/	0.002		U/	0.002		U/	0.002		U/	0.002		U/	0.002
Barium	2	2	mg/L	0.087	/	0.001	0.067	/	0.001	0.073	/	0.001	0.063	/	0.001	0.065	/	0.001
Beryllium	0.004	0.004	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		U/	0.001
Cadmium	0.005	0.005	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		U/	0.001
Calcium			mg/L	99.6	/	0.1	54.2	/	0.1	96.7	/	0.1	84.8	/	0.1	87.3	/	0.1
Chromium (total)	0.1	0.1	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		U/	0.001
Cobalt		1	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		U/	0.001
Copper	1.3 (at tap)+	0.65	mg/L		U/	0.001		U/	0.001		U/	0.001	0.002	/	0.001	0.002	/	0.001
Iron	0.3**	5	mg/L	0.11	/	0.01	0.05	/	0.01		U/	0.01		U/	0.01		U/	0.01
Lead	0.015+	0.0075	mg/L		U/	0.002		U/	0.002		U/	0.002		U/	0.002		U/	0.002
Magnesium			mg/L	53.9	/	0.1	45.1	/	0.1	51	/	0.1	45.2	/	0.1	46.3	/	0.1
Manganese	0.05**	0.15	mg/L	**0.058**	/	0.001	0.012	/	0.001		U/	0.001	0.003	/	0.001	0.003	/	0.001
Mercury	0.002 (inorganic)	0.002	mg/L		U/	0.0005		U/	0.0005		U/	0.0005		U/	0.0005		U/	0.0005
Nickel	0.1	0.1	mg/L	0.001	/	0.001		U/	0.001		U/	0.001		U/	0.001		U/	0.001
Potassium			mg/L	4.9	/	0.1	2.4	/	0.1	5.4	/	0.1	4.1	/	0.1	4.2	/	0.1
Selenium	0.05	0.05	mg/L		U/	0.002		U/	0.002		U/	0.002		U/	0.002		U/	0.002
Silver	0.1**	0.05	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		U/	0.001
Sodium			mg/L	58	/		27.3	/		53.2	/		37.5	/		38.3	/	
Thallium	0.002	0.002	mg/L		U/	0.002		U/	0.002		U/	0.002		U/	0.002		U/	0.002
Vanadium		0.049*	mg/L		U/	0.01		U/	0.01		U/	0.01		U/	0.01		U/	0.01
Zinc	5**	5	mg/L		U/	0.005		U/	0.005		U/	0.005	0.03	/	0.005	0.034	/	0.005
Cyanide	0.2	0.2	mg/L		U/	0.005		U/	0.005		U/	0.005		U/	0.005		U/	0.005
Chloride	250**	200	mg/L	96	/	5	24	/	5	92	/	5	76	/	5	76	/	5
Sulfate	500	400	mg/L	112	/	15	48	/	15	70	/	15	64	/	15	65	/	15
Total Dissolved Solids	500**	1200	mg/L	**696**	/	1	420	/	1	**653**	/	1	**559**	/	1	**556**	/	1

*not listed as standard in 620.410:
** Secondary MCLs:
a - Health Advisory Concentration equal to ADL for carcinogens
+ Action Level listed in Drinking Water Regulations
THM - Total for all THMs cannot exceed the 80ug/l level
PHA - Polyaromatic Hydrocarbon

Bold = Exceeds MCLS
[redacted]

Sample Label Identifiers:

BW - Blackwell	FB - field blank	SVB - semi-volati
GW - groundwater	TB - trip blank	-01 - sample
G107 - well identification	VB - volatile blank	-91 - duplicate san

Qualifier Definitions:
The table presents any detected concentrations, followed by the Lab Qualifiers / Data Validation Qualifiers, follo

U/ - Not detected	/J - Estimated value, data qualifier added
/U - Not detected, blank contamination	/R - Unusable, data qualifier added
J/ - Estimated value	S/ - Analysis performed using MSA
/UJ - Not detected, estimated detection limit	*/ - Duplicate outside control limits

Table 3
Validated Analytical Results
Blackwell Landfill, DuPage County, Illinois

Parameter / Sample Date	EPA MCLs	IEPA Class I Standards	Units	BW-GWG142-01 11/7/97 Conc	LQ/DVQ	RDL	BW-GWG143-01 11/5/97 Conc	LQ/DVQ	RDL	BW-GWG144-01 11/5/97 Conc	LQ/DVQ	RDL	BW-GWG145-01 11/7/97 Conc	LQ/DVQ	RDL	BW-GWG146-01 11/5/97 Conc	LQ/DVQ	RDL
Volatiles (ug/L)																		
Acetone		700*	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Benzene	5	5	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Bromodichloromethane	100/80 (THM)	0.02a	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Bromoform	100/80 (THM)	0.2a	ug/L	U/UJ		5	U/UJ		5	U/UJ		5	U/UJ		5	U/UJ		5
Bromomethane (Methyl Bromide)		9.8*	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
2-Butanone (MEK)			ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Carbon disulfide		700*	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Carbon tetrachloride	5	5	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Chlorobenzene (Monochlorobenzene)	100	100	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Chlorodibromomethane	100/80 (THM)	140*	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Chloroethane			ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Chloroform	100/80 (THM)	0.02a	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Chloromethane			ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
1,1-Dichloroethane		7*	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
1,2-Dichloroethane	5	5	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
1,1-Dichloroethene	7	7	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
cis-1,2-Dichloroethene	70	70	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
trans-1,2-Dichloroethene	100	100	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
1,2-Dichloropropane	5	5	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
cis-1,3-Dichloropropene		1a	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
trans-1,3-Dichloropropene		(cis + trans)	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Ethyl benzene	700	700	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
2-Hexanone (MBK)			ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
4-Methyl-2-pentanone (MIBK)			ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Methylene chloride (Dichloromethane)	5	5	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Styrene	100	100	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
1,1,2,2-Tetrachloroethane			ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Tetrachloroethene	5	5	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Toluene	1000	1000	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
1,1,1-Trichloroethane	200	200	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
1,1,2-Trichloroethane	5	5	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Trichloroethene	5	5	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Vinyl Acetate		7000*	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Vinyl Chloride	2	2	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Xylenes (total)	10000	10000	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Semivolatiles (ug/L)																		
Acenaphthene		420*	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Acenaphthylene			ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Anthracene	PAH	2100*	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Benzidine			ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Benzo[a]anthracene	PAH	0.13a	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Benzo[b]fluoranthene	PAH	0.18a	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Benzo[k]fluoranthene	PAH	0.17a	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Benzo[g,h,i]perylene	PAH		ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Benzo[a]pyrene	0.2	0.2	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Benzoic Acid		28000*	ug/L	U/		50	U/		50	U/		50	U/		50	U/		50
Benzyl Alcohol			ug/L	U/		20	U/		20	U/		20	U/		20	U/		20
bis(2-chloroethoxy)methane			ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
bis(2-chloroethyl)ether		10a	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
bis(2-chloroisopropyl)ether			ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
bis(2-ethylhexyl)phthalate	6	6	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
4-Bromophenyl-phenylether			ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Butylbenzylphthalate		1400*	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
4-Chloroaniline		28*	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10

Table 3
Validated Analytical Results
Blackwell Landfill, DuPage County, Illinois

Sample / Date / Parameter	EPA MCLs	IEPA Class I Standards	Units	BW-GWG142-01 11/5/97 Conc	LQ/DVQ	RDL	BW-GWG143-01 11/5/97 Conc	LQ/DVQ	RDL	BW-GWG144-01 11/5/97 Conc	LQ/DVQ	RDL	BW-GWG145-01 11/5/97 Conc	LQ/DVQ	RDL	BW-GWG146-01 11/5/97 Conc	LQ/DVQ	RDL
4-Chloro-3-methylphenol			ug/L		U/	20		U/	20		U/	20		U/	20		U/	20
2-Chloronaphthalene			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2-Chlorophenol		35*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
4-Chlorophenyl phenylether			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Chrysene	PAH	1.5a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Dibenzo[a,h]anthracene		0.3a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Dibenzofuran			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
1,2-Dichlorobenzene (o)	600	600	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
1,3-Dichlorobenzene (m)			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
1,4-Dichlorobenzene (p)	75	75	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
3,3-Dichorobenzidine		20a	ug/L		U/	20		U/	20		U/	20		U/	20		U/	20
2,4-Dichlorophenol		21*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Diethylphthalate		5600*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2,4-Dimethylphenol		140*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Dimethylphthalate			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Di-n-butylphthalate		700*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
4,6-Dinitro-2-methylphenol			ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
2,4-Dinitrophenol		14*	ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
2,4-Dinitrotoluene		0.02a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2,6-Dinitrotoluene		0.1a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Di-n-octylphthalate		140*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Fluoranthene	PAH	280*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Fluorene	PAH	280*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Hexachlorobenzene	1	0.06a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Hexachlorobutadiene			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Hexachlorocyclopentadiene	50	50	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Hexachloroethane		7*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Indeno[1,2,3-cd]pyrene	PAH	0.43a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Isophorone		1400*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2-Methylnaphthalene			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2-Methylphenol (o-Cresol)		350*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
3&4-Methylphenol (Cresols)			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Naphthalene		25*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2-Nitroaniline			ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
3-Nitroaniline			ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
4-Nitroaniline			ug/L		U/	20		U/	20		U/	20		U/	20		U/	20
Nitrobenzene		3.5*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2-Nitrophenol			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
4-Nitrophenol			ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
N-Nitrosodimethylamine			ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
N-Nitroso-di-n-propylamine		10a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
N-Nitrosodiphenylamine		10a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Pentachlorophenol	1	1	ug/L		U/	50		U/	50		U/	50		U/	50		U/	50
Phenanthrene	PAH		ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
Phenol		100	ug/L		U/	10	22	/	10		U/	10		U/	10			
Pyrene	PAH	210*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
1,2,4-Trichlorobenzene	70	70	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2,4,5-Trichlorophenol		700*	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10
2,4,6-Trichlorophenol		6.4a	ug/L		U/	10		U/	10		U/	10		U/	10		U/	10

Table 3
Validated Analytical Results
Blackwell Landfill, DuPage County, Illinois

Parameter / Sample Date	EPA MCLs	IEPA Class I Standards	Units	BW-GW0[illegible]-01 11/7/97			BW-GW0143-01 11/5/97			BW-GW0144-01 11/5/97			BW-GW0145-01 11/7/97			BW-GW0146-01 11/5/97		
				Conc	LQ/DVQ	RDL	Conc	LQ/DVQ	RDL	Conc	LQ/DVQ	RDL	Conc	LQ/DVQ	RDL	Conc	LQ/DVQ	RDL
Inorganics (mg/L)																		
Aluminum	0.05 - 0.2**		mg/L		U/	0.05		U/	0.05		U/	0.05		U/	0.05		U/	0.05
Antimony	0.006	0.006	mg/L		U/	0.002		U/	0.002					U/	0.002		U/	0.002
Arsenic	0.05	0.05	mg/L		U/	0.002		U/	0.002		U/	0.002		U/	0.002		U/	0.002
Barium	2	2	mg/L	0.045	/	0.001	0.083	/	0.001	0.094	/	0.001	0.101	/	0.001	0.091	/	0.001
Beryllium	0.004	0.004	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		U/	0.001
Cadmium	0.005	0.005	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		U/	0.001
Calcium			mg/L	95.3	/	0.1	92.9	/	0.1	92.8	/	0.1	99.1	/	0.1	90.7	/	0.1
Chromium (total)	0.1	0.1	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		U/	0.001
Cobalt		1	mg/L		U/	0.001	0.003	/	0.001	0.002	/	0.001	0.002	/	0.001		U/	0.001
Copper	1.3 (at tap)+	0.65	mg/L	0.001	/	0.001	0.003	/	0.001		U/	0.001		U/	0.001		U/	0.001
Iron	0.3**	5	mg/L		U/	0.01	0.02	/	0.01	**1.7**	/	0.01	0.06	/	0.01	**0.37**	/	0.01
Lead	0.015+	0.0075	mg/L		U/	0.002		U/	0.002		U/	0.002		U/	0.002		U/	0.002
Magnesium			mg/L	51.1	/	0.1	49.1	/	0.1	46.4	/	0.1	57.5	/	0.1	57.4	/	0.1
Manganese	0.05**	0.15	mg/L	0.005	/	0.001							0.042	/	0.001	0.023	/	0.001
Mercury	0.002 (inorganic)	0.002	mg/L		U/	0.0005		U/	0.0005		U/	0.0005		U/	0.0005		U/	0.0005
Nickel	0.1	0.1	mg/L		U/	0.001	0.02	/	0.001	0.002	/	0.001	0.004	/	0.001	0.003	/	0.001
Potassium			mg/L	4	/	0.1	2.4	/	0.1	6	/	0.1	5.6	/	0.1	4.9	/	0.1
Selenium	0.05	0.05	mg/L		U/	0.002		U/	0.002		U/	0.002		U/	0.002		U/	0.002
Silver	0.1**	0.05	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		U/	0.001
Sodium			mg/L	48.5	/		63.3	/		59.8	/		66.8	/		55.9	/	
Thallium	0.002	0.002	mg/L		U/	0.002		U/	0.002		U/	0.002		U/	0.002		U/	0.002
Vanadium		0.049*	mg/L		U/	0.01		U/	0.01		U/	0.01		U/	0.01		U/	0.01
Zinc	5**	5	mg/L		U/	0.005	0.007	/	0.005		U/	0.005		U/	0.005		U/	0.005
Cyanide	0.2	0.2	mg/L		U/	0.005		U/	0.005		U/	0.005		U/	0.005		U/	0.005
Chloride	250**	200	mg/L	92	/	5	112	/	5	70	/	5	108	/	5	96	/	5
Sulfate	500	400	mg/L	78	/	15	74	/	15	76	/	15	102	/	15	96	/	15
Total Dissolved Solids	500**	1200	mg/L	**648**	/	1	**684**	/	1	**626**	/	1	**735**	/	1	**685**	/	1

*not listed as standard in 620.410:

** Secondary MCLs

a - Health Advisory Concentration equal to ADL for carcinogens

+ Action Level listed in Drinking Water Regulations

THM - Total for all THMs cannot exceed the 80ug/l level

PHA - Polyaromatic Hydrocarbon

Bold = Exceeds MCLS

Sample Label Identifiers:

BW - Blackwell
GW - groundwater
G107 - well identification

FB - field blank
TB - trip blank
VB - volatile blank

SVB - semi-volati
-01 - sample
-91 - duplicate sar

Qualifier Definitions:

The table presents any detected concentrations, followed by the Lab Qualifiers / Data V idation Qualifiers, follo

U/ - Not detected
/U - Not detected, blank contamination
J/ - Estimated value
/UJ - Not detected, estimated detection limit

/J - Estimated value, data qualifier ad ed
/R - Unusable, data qualifier added
S/ - Analysis performed using MSA
*/ - Duplicate outside control limits

Table 3
Validated Analytical Results
Blackwell Landfill, DuPage County, Illinois

Sample / Date / Parameter	EPA MCLs	IEPA Class I Standards	Units	BW-GW0146-01 11/5/97 Conc	LQ/DVQ	RDL	BW-GWFB01-01 11/5/97 Conc	LQ/DVQ	RDL	BW-GWFB02-01 11/7/97 Conc	LQ/DVQ	RDL	BW-GWFB03-01 11/11/97 Conc	LQ/DVQ	RDL	BW-TB1-01 11/5/97 Conc	LQ/DVQ	RDL
Volatiles (ug/L)																		
Acetone		700*	ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
Benzene	5	5	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Bromodichloromethane	100/80 (THM)	0.02a	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Bromoform	100/80 (THM)	0.2a	ug/L	U/UJ	5		U/UJ	5		U/UJ	5		U/UJ	5		U/UJ	5	
Bromomethane (Methyl Bromide)		9.8*	ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
2-Butanone (MEK)			ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
Carbon disulfide		700*	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Carbon tetrachloride	5	5	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Chlorobenzene (Monochlorobenzene)	100	100	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Chlorodibromomethane	100/80 (THM)	140*	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Chloroethane			ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
Chloroform	100/80 (THM)	0.02a	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Chloromethane			ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
1,1-Dichloroethane		7*	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
1,2-Dichloroethane	5	5	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
1,1-Dichloroethene	7	7	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
cis-1,2-Dichloroethene	70	70	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
trans-1,2-Dichloroethene	100	100	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
1,2-Dichloropropane	5	5	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
cis-1,3-Dichloropropene		1a	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
trans-1,3-Dichloropropene		(cis + trans)	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Ethyl benzene	700	700	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
2-Hexanone (MBK)			ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
4-Methyl-2-pentanone (MIBK)			ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
Methylene chloride (Dichloromethane)	5	5	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Styrene	100	100	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
1,1,2,2-Tetrachloroethane			ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Tetrachloroethene	5	5	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Toluene	1000	1000	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
1,1,1-Trichloroethane	200	200	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
1,1,2-Trichloroethane	5	5	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Trichloroethene	5	5	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Vinyl Acetate		7000*	ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
Vinyl Chloride	2	2	ug/L	U/	10		U/	10		U/	10		U/	10		U/	10	
Xylenes (total)	10000	10000	ug/L	U/	5		U/	5		U/	5		U/	5		U/	5	
Semivolatiles (ug/L)																		
Acenaphthene		420*	ug/L	U/	10		U/	10		U/	10		U/	10		NA		
Acenaphthylene			ug/L	U/	10		U/	10		U/	10		U/	10		NA		
Anthracene	PAH	2100*	ug/L	U/	10		U/	10		U/	10		U/	10		NA		
Benzidine			ug/L	U/	10		U/	10		U/	10		U/	10		NA		
Benzo[a]anthracene	PAH	0.13a	ug/L	U/	10		U/	10		U/	10		U/	10		NA		
Benzo[b]fluoranthene	PAH	0.18a	ug/L	U/	10		U/	10		U/	10		U/	10		NA		
Benzo[k]fluoranthene	PAH	0.17a	ug/L	U/	10		U/	10		U/	10		U/	10		NA		
Benzo[g,h,i]perylene	PAH		ug/L	U/	10		U/	10		U/	10		U/	10		NA		
Benzo[a]pyrene	0.2	0.2	ug/L	U/	10		U/	10		U/	10		U/	10		NA		
Benzoic Acid		28000*	ug/L	U/	50		U/	50		U/	50		U/	50		NA		
Benzyl Alcohol			ug/L	U/	20		U/	20		U/	20		U/	20		NA		
bis(2-chloroethoxy)methane			ug/L	U/	10		U/	10		U/	10		U/	10		NA		
bis(2-chloroethyl)ether		10a	ug/L	U/	10		U/	10		U/	10		U/	10		NA		
bis(2-chloroisopropyl)ether			ug/L	U/	10		U/	10		U/	10		U/	10		NA		
bis(2-ethylhexyl)phthalate	6	6	ug/L	[redacted]			U/	10		U/	10		U/	10		NA		
4-Bromophenyl-phenylether			ug/L	U/	10		U/	10		U/	10		U/	10		NA		
Butylbenzylphthalate		1400*	ug/L	U/	10		U/	10		U/	10		U/	10		NA		
4-Chloroaniline		28*	ug/L	U/	10		U/	10		U/	10		U/	10		NA		

Table 3
Validated Analytical Results
Blackwell Landfill, DuPage County, Illinois

Parameter / Sample Date	EPA MCLs	IEPA Class I Standards	Units	BW-GWG046-01 11/5/97 Conc	LQ/DVQ	RDL	BW-GWFB01-01 11/5/97 Conc	LQ/DVQ	RDL	BW-GWFB03-01 11/7/97 Conc	LQ/DVQ	RDL	BW-GWFB05-01 11/11/97 Conc	LQ/DVQ	RDL	BW-TB1-01 11/5/97 Conc	LQ/DVQ	RDL
4-Chloro-3-methylphenol			ug/L	U/		20	U/		20	U/		20	U/		20	NA		
2-Chloronaphthalene			ug/L	U/		10	U/		10	U/		10	U/		10	NA		
2-Chlorophenol		35*	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
4-Chlorophenyl-phenylether			ug/L	U/		10	U/		10	U/		10	U/		10	NA		
Chrysene	PAH	1.5a	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
Dibenzo[a,h]anthracene		0.3a	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
Dibenzofuran			ug/L	U/		10	U/		10	U/		10	U/		10	NA		
1,2-Dichlorobenzene (o)	600	600	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
1,3-Dichlorobenzene (m)			ug/L	U/		10	U/		10	U/		10	U/		10	NA		
1,4-Dichlorobenzene (p)	75	75	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
3,3-Dichorobenzidine		20a	ug/L	U/		20	U/		20	U/		20	U/		20	NA		
2,4-Dichlorophenol		21*	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
Diethylphthalate		5600*	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
2,4-Dimethylphenol		140*	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
Dimethylphthalate			ug/L	U/		10	U/		10	U/		10	U/		10	NA		
Di-n-butylphthalate		700*	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
4,6-Dinitro-2-methylphenol			ug/L	U/		50	U/		50	U/		50	U/		50	NA		
2,4-Dinitrophenol		14*	ug/L	U/		50	U/		50	U/		50	U/		50	NA		
2,4-Dinitrotoluene		0.02a	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
2,6-Dinitrotoluene		0.1a	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
Di-n-octylphthalate		140*	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
Fluoranthene	PAH	280*	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
Fluorene	PAH	280*	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
Hexachlorobenzene	1	0.06a	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
Hexachlorobutadiene			ug/L	U/		10	U/		10	U/		10	U/		10	NA		
Hexachlorocyclopentadiene	50	50	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
Hexachloroethane		7*	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
Indeno[1,2,3-cd]pyrene	PAH	0.43a	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
Isophorone		1400*	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
2-Methylnaphthalene			ug/L	U/		10	U/		10	U/		10	U/		10	NA		
2-Methylphenol (o-Cresol)		350*	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
3&4-Methylphenol (Cresols)			ug/L	U/		10	U/		10	U/		10	U/		10	NA		
Naphthalene		25*	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
2-Nitroaniline			ug/L	U/		50	U/		50	U/		50	U/		50	NA		
3-Nitroaniline			ug/L	U/		50	U/		50	U/		50	U/		50	NA		
4-Nitroaniline			ug/L	U/		20	U/		20	U/		20	U/		20	NA		
Nitrobenzene		3.5*	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
2-Nitrophenol			ug/L	U/		10	U/		10	U/		10	U/		10	NA		
4-Nitrophenol			ug/L	U/		50	U/		50	U/		50	U/		50	NA		
N-Nitrosodimethylamine			ug/L	U/		10	U/		10	U/		10	U/		10	NA		
N-Nitroso-di-n-propylamine		10a	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
N-Nitrosodiphenylamine		10a	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
Pentachlorophenol	1	1	ug/L	U/		50	U/		50	U/		50	U/		50	NA		
Phenanthrene	PAH		ug/L	U/		10	U/		10	U/		10	U/		10	NA		
Phenol		100	ug/L				U/		10	U/		10	U/		10	NA		
Pyrene	PAH	210*	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
1,2,4-Trichlorobenzene	70	70	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
2,4,5-Trichlorophenol		700*	ug/L	U/		10	U/		10	U/		10	U/		10	NA		
2,4,6-Trichlorophenol		6.4a	ug/L	U/		10	U/		10	U/		10	U/		10	NA		

Table 3
Validated Analytical Results
Blackwell Landfill, DuPage County, Illinois

Parameter / Sample Date	EPA MCLs	IEPA Class I Standards	Units	BW-GW[illegible] 11/5/97 Qual	LQ/DVQ	RDL	BW-GWFB01-01 11/5/97 Qual	LQ/DVQ	RDL	BW-GWFB02-01 11/7/97 Qual	LQ/DVQ	RDL	BW-GWFB03-01 11/11/97 Qual	LQ/DVQ	RDL	BW-TB1-01 11/5/97 Qual	LQ/DVQ	RDL
Inorganics (mg/L)																		
Aluminum	0.05 - 0.2**		mg/L		U/	0.05		U/	0.05		U/	0.05		U/	0.05		NA	
Antimony	0.006	0.006	mg/L		U/	0.002		U/	0.002		U/	0.002		U/UJ	0.002		NA	
Arsenic	0.05	0.05	mg/L		U/	0.002		U/	0.002		U/	0.002		U/	0.002		NA	
Barium	2	2	mg/L	0.091	/	0.001		U/	0.001		U/	0.001	0.002	/	0.001		NA	
Beryllium	0.004	0.004	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		NA	
Cadmium	0.005	0.005	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		NA	
Calcium			mg/L	91.5	/	0.1	0.5	/	0.1		U/	0.1	0.4	/	0.1		NA	
Chromium (total)	0.1	0.1	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		NA	
Cobalt		1	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		NA	
Copper	1.3 (at tap)+	0.65	mg/L		U/	0.001	0.002	/	0.001		U/	0.001	0.002	/	0.001		NA	
Iron	0.3**	5	mg/L	**0.38**	/	0.01		U/	0.01		U/	0.01		U/	0.01		NA	
Lead	0.015+	0.0075	mg/L		U/	0.002		U/	0.002		U/	0.002		U/	0.002		NA	
Magnesium			mg/L	57.7	/	0.1		U/	0.1		U/	0.1		U/	0.1		NA	
Manganese	0.05**	0.15	mg/L	0.022	/	0.001		U/	0.001		U/	0.001		U/	0.001		NA	
Mercury	0.002 (inorganic)	0.002	mg/L		U/	0.0005		U/	0.0005		U/	0.0005		U/	0.0005		NA	
Nickel	0.1	0.1	mg/L	0.003	/	0.001		U/	0.001		U/	0.001		U/	0.001		NA	
Potassium			mg/L	4.8	/	0.1		U/	0.1		U/	0.1		U/	0.1		NA	
Selenium	0.05	0.05	mg/L		U/	0.002		U/	0.002		U/	0.002		U/	0.002		NA	
Silver	0.1**	0.05	mg/L		U/	0.001		U/	0.001		U/	0.001		U/	0.001		NA	
Sodium			mg/L	56	/		0.2	/		0.2	/		1.6	/			NA	
Thallium	0.002	0.002	mg/L		U/	0.002		U/	0.002		U/	0.002		U/	0.002		NA	
Vanadium		0.049*	mg/L		U/	0.01		U/	0.01		U/	0.01		U/	0.01		NA	
Zinc	5**	5	mg/L	0.008	/	0.005	0.024	/	0.005		U/	0.005	0.012	/	0.005		NA	
Cyanide	0.2	0.2	mg/L		U/	0.005		U/	0.005		U/	0.005		U/	0.005		NA	
Chloride	250**	200	mg/L	98	/	5		U/	5		U/	5		U/	5		NA	
Sulfate	500	400	mg/L	95	/	15		U/	15		U/	15		U/	15		NA	
Total Dissolved Solids	500**	1200	mg/L	**685**	/	1		U/	1		U/	1		U/	1		NA	

*not listed as standard in 620.410:
** Secondary MCLs:
a - Health Advisory Concentration equal to ADL for carcinogens
+ Action Level listed in Drinking Water Regulations
THM - Total for all THMs cannot exceed the 80ug/l level
PHA - Polyaromatic Hydrocarbon

Bold = Exceeds MCLS

Sample Label Identifiers:
BW - Blackwell
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G107 - well identification
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The table presents any detected concentrations, followed by the Lab Qualifiers / Data Validation Qualifiers, follo
U/ - Not detected
/U - Not detected, blank contamination
J/ - Estimated value
/UJ - Not detected, estimated detection limit
/J - Estimated value, data qualifier added
/R - Unusable, data qualifier added
S/ - Analysis performed using MSA
*/ - Duplicate outside control limits

Table 3
Validated Analytical Results
Blackwell Landfill, DuPage County, Illinois

Parameter / Sample / Date	EPA MCLs	IEPA Class I Standards	Units	BW-GWTB03-01 11/7/97 Conc	LQ/DVQ	RDL	BW-TB03-01 11/11/97 Conc	LQ/DVQ	RDL	VBLK01 11/12/97 Conc	LQ/DVQ	RDL	VBLK02 11/12/97 Conc	LQ/DVQ	RDL	VBLK03 11/13/97 Conc	LQ/DVQ	RDL
Volatiles (ug/L)																		
Acetone		700*	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Benzene	5	5	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Bromodichloromethane	100/80 (THM)	0.02a	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Bromoform	100/80 (THM)	0.2a	ug/L	U/		5	U/UJ		5	U/		5	U/		5	U/		5
Bromomethane (Methyl Bromide)		9.8*	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
2-Butanone (MEK)			ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Carbon disulfide		700*	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Carbon tetrachloride	5	5	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Chlorobenzene (Monochlorobenzene)	100	100	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Chlorodibromomethane	100/80 (THM)	140*	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Chloroethane			ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Chloroform	100/80 (THM)	0.02a	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Chloromethane			ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
1,1-Dichloroethane		7*	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
1,2-Dichloroethane	5	5	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
1,1-Dichloroethene	7	7	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
cis-1,2-Dichloroethene	70	70	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
trans-1,2-Dichloroethene	100	100	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
1,2-Dichloropropane	5	5	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
cis-1,3-Dichloropropene		1a	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
trans-1,3-Dichloropropene		(cis + trans)	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Ethyl benzene	700	700	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
2-Hexanone (MBK)			ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
4-Methyl-2-pentanone (MIBK)			ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Methylene chloride (Dichloromethane)	5	5	ug/L	U/		5	U/		5	12	/	5	13	/	5	13	/	5
Styrene	100	100	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
1,1,2,2-Tetrachloroethane			ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Tetrachloroethene	5	5	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Toluene	1000	1000	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
1,1,1-Trichloroethane	200	200	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
1,1,2-Trichloroethane	5	5	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Trichloroethene	5	5	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Vinyl Acetate		7000*	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Vinyl Chloride	2	2	ug/L	U/		10	U/		10	U/		10	U/		10	U/		10
Xylenes (total)	10000	10000	ug/L	U/		5	U/		5	U/		5	U/		5	U/		5
Semivolatiles (ug/L)																		
Acenaphthene		420*	ug/L	NA			NA			NA			NA			NA		
Acenaphthylene			ug/L	NA			NA			NA			NA			NA		
Anthracene	PAH	2100*	ug/L	NA			NA			NA			NA			NA		
Benzidine			ug/L	NA			NA			NA			NA			NA		
Benzo[a]anthracene	PAH	0.13a	ug/L	NA			NA			NA			NA			NA		
Benzo[b]fluoranthene	PAH	0.18a	ug/L	NA			NA			NA			NA			NA		
Benzo[k]fluoranthene	PAH	0.17a	ug/L	NA			NA			NA			NA			NA		
Benzo[g,h,i]perylene	PAH		ug/L	NA			NA			NA			NA			NA		
Benzo[a]pyrene	0.2	0.2	ug/L	NA			NA			NA			NA			NA		
Benzoic Acid		28000*	ug/L	NA			NA			NA			NA			NA		
Benzyl Alcohol			ug/L	NA			NA			NA			NA			NA		
bis(2-chloroethoxy)methane			ug/L	NA			NA			NA			NA			NA		
bis(2-chloroethyl)ether		10a	ug/L	NA			NA			NA			NA			NA		
bis(2-chloroisopropyl)ether			ug/L	NA			NA			NA			NA			NA		
bis(2-ethylhexyl)phthalate	6	6	ug/L	NA			NA			NA			NA			NA		
4-Bromophenyl-phenylether			ug/L	NA			NA			NA			NA			NA		
Butylbenzylphthalate		1400*	ug/L	NA			NA			NA			NA			NA		
4-Chloroaniline		28*	ug/L	NA			NA			NA			NA			NA		

Table 3
Validated Analytical Results
Blackwell Landfill, DuPage County, Illinois

Sample / Date / Parameter	EPA MCLs	IEPA Class I Standards	Units	BW-GW[illegible] 11/[illegible]/97 Conc LQ/DVQ RDL	BW-TB05-01 11/11/97 Conc LQ/DVQ RDL	VBLK01 11/12/97 Conc LQ/DVQ RDL	VBLK02 11/12/97 Conc LQ/DVQ RDL	VBLK03 11/13/97 Conc LQ/DVQ RDL
4-Chloro-3-methylphenol			ug/L	NA	NA	NA	NA	NA
2-Chloronaphthalene			ug/L	NA	NA	NA	NA	NA
2-Chlorophenol		35*	ug/L	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether			ug/L	NA	NA	NA	NA	NA
Chrysene	PAH	1.5a	ug/L	NA	NA	NA	NA	NA
Dibenzo[a,h]anthracene		0.3a	ug/L	NA	NA	NA	NA	NA
Dibenzofuran			ug/L	NA	NA	NA	NA	NA
1,2-Dichlorobenzene (o)	600	600	ug/L	NA	NA	NA	NA	NA
1,3-Dichlorobenzene (m)			ug/L	NA	NA	NA	NA	NA
1,4-Dichlorobenzene (p)	75	75	ug/L	NA	NA	NA	NA	NA
3,3-Dichorobenzidine		20a	ug/L	NA	NA	NA	NA	NA
2,4-Dichlorophenol		21*	ug/L	NA	NA	NA	NA	NA
Diethylphthalate		5600*	ug/L	NA	NA	NA	NA	NA
2,4-Dimethylphenol		140*	ug/L	NA	NA	NA	NA	NA
Dimethylphthalate			ug/L	NA	NA	NA	NA	NA
Di-n-butylphthalate		700*	ug/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol			ug/L	NA	NA	NA	NA	NA
2,4-Dinitrophenol		14*	ug/L	NA	NA	NA	NA	NA
2,4-Dinitrotoluene		0.02a	ug/L	NA	NA	NA	NA	NA
2,6-Dinitrotoluene		0.1a	ug/L	NA	NA	NA	NA	NA
Di-n-octylphthalate		140*	ug/L	NA	NA	NA	NA	NA
Fluoranthene	PAH	280*	ug/L	NA	NA	NA	NA	NA
Fluorene	PAH	280*	ug/L	NA	NA	NA	NA	NA
Hexachlorobenzene	1	0.06a	ug/L	NA	NA	NA	NA	NA
Hexachlorobutadiene			ug/L	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	50	50	ug/L	NA	NA	NA	NA	NA
Hexachloroethane		7*	ug/L	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	PAH	0.43a	ug/L	NA	NA	NA	NA	NA
Isophorone		1400*	ug/L	NA	NA	NA	NA	NA
2-Methylnaphthalene			ug/L	NA	NA	NA	NA	NA
2-Methylphenol (o-Cresol)		350*	ug/L	NA	NA	NA	NA	NA
3&4-Methylphenol (Cresols)			ug/L	NA	NA	NA	NA	NA
Naphthalene		25*	ug/L	NA	NA	NA	NA	NA
2-Nitroaniline			ug/L	NA	NA	NA	NA	NA
3-Nitroaniline			ug/L	NA	NA	NA	NA	NA
4-Nitroaniline			ug/L	NA	NA	NA	NA	NA
Nitrobenzene		3.5*	ug/L	NA	NA	NA	NA	NA
2-Nitrophenol			ug/L	NA	NA	NA	NA	NA
4-Nitrophenol			ug/L	NA	NA	NA	NA	NA
N-Nitrosodimethylamine			ug/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine		10a	ug/L	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine		10a	ug/L	NA	NA	NA	NA	NA
Pentachlorophenol	1	1	ug/L	NA	NA	NA	NA	NA
Phenanthrene	PAH		ug/L	NA	NA	NA	NA	NA
Phenol		100	ug/L	NA	NA	NA	NA	NA
Pyrene	PAH	210*	ug/L	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	70	ug/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol		700*	ug/L	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol		6.4a	ug/L	NA	NA	NA	NA	NA

Table 3
Validated Analytical Results
Blackwell Landfill, DuPage County, Illinois

Parameter / Sample Date	EPA MCLs	IEPA Class I Standards	Units	BW-GWTB02-01 11/7/97 Conc LQ/DVQ RDL	BW-TB03-01 11/11/97 Conc LQ/DVQ RDL	VBLK01 11/12/97 Conc LQ/DVQ RDL	VBLK02 11/12/97 Conc LQ/DVQ RDL	VBLK03 11/13/97 Conc LQ/DVQ RDL
Inorganics (mg/L)								
Aluminum	0.05 - 0.2**		mg/L	NA	NA	NA	NA	NA
Antimony	0.006	0.006	mg/L	NA	NA	NA	NA	NA
Arsenic	0.05	0.05	mg/L	NA	NA	NA	NA	NA
Barium	2	2	mg/L	NA	NA	NA	NA	NA
Beryllium	0.004	0.004	mg/L	NA	NA	NA	NA	NA
Cadmium	0.005	0.005	mg/L	NA	NA	NA	NA	NA
Calcium			mg/L	NA	NA	NA	NA	NA
Chromium (total)	0.1	0.1	mg/L	NA	NA	NA	NA	NA
Cobalt		1	mg/L	NA	NA	NA	NA	NA
Copper	1.3 (at tap)+	0.65	mg/L	NA	NA	NA	NA	NA
Iron	0.3**	5	mg/L	NA	NA	NA	NA	NA
Lead	0.015+	0.0075	mg/L	NA	NA	NA	NA	NA
Magnesium			mg/L	NA	NA	NA	NA	NA
Manganese	0.05**	0.15	mg/L	NA	NA	NA	NA	NA
Mercury	0.002 (inorganic)	0.002	mg/L	NA	NA	NA	NA	NA
Nickel	0.1	0.1	mg/L	NA	NA	NA	NA	NA
Potassium			mg/L	NA	NA	NA	NA	NA
Selenium	0.05	0.05	mg/L	NA	NA	NA	NA	NA
Silver	0.1**	0.05	mg/L	NA	NA	NA	NA	NA
Sodium			mg/L	NA	NA	NA	NA	NA
Thallium	0.002	0.002	mg/L	NA	NA	NA	NA	NA
Vanadium		0.049*	mg/L	NA	NA	NA	NA	NA
Zinc	5**	5	mg/L	NA	NA	NA	NA	NA
Cyanide	0.2	0.2	mg/L	NA	NA	NA	NA	NA
Chloride	250**	200	mg/L	NA	NA	NA	NA	NA
Sulfate	500	400	mg/L	NA	NA	NA	NA	NA
Total Dissolved Solids	500**	1200	mg/L	NA	NA	NA	NA	NA

*not listed as standard in 620.410:
** Secondary MCLs:
a - Health Advisory Concentration equal to ADL for carcinogens
+ Action Level listed in Drinking Water Regulations
THM - Total for all THMs cannot exceed the 80ug/l level
PHA - Polyaromatic Hydrocarbon

Bold = Exceeds MCLS
[redacted]

Sample Label Identifiers:
BW - Blackwell
GW - groundwater
G107 - well identification
FB - field blank
TB - trip blank
VB - volatile blank
SVB - semi-volati
-01 - sample
-91 - duplicate sar

Qualifier Definitions:
The table presents any detected concentrations, followed by the Lab Qualifiers / Data Validation Qualifiers, follo
U/ - Not detected
/U - Not detected, blank contamination
J/ - Estimated value
/UJ - Not detected, estimated detection limit
/J - Estimated value, data qualifier added
/R - Unusable, data qualifier added
S/ - Analysis performed using MSA
*/ - Duplicate outside control limits

Table 3
Validated Analytical Results
Blackwell Landfill, DuPage County, Illinois

Parameter / Sample Date	EPA MCLs	IEPA Class I Standards	Units	SVBLK01 11/7/97 Conc LQ/DVQ RDL	SVBLK02 11/12/97 Conc LQ/DVQ RDL	SVBLK03 11/13/97 Conc LQ/DVQ RDL
Volatiles (ug/L)						
Acetone		700*	ug/L	NA	NA	NA
Benzene	5	5	ug/L	NA	NA	NA
Bromodichloromethane	100/80 (THM)	0.02a	ug/L	NA	NA	NA
Bromoform	100/80 (THM)	0.2a	ug/L	NA	NA	NA
Bromomethane (Methyl Bromide)		9.8*	ug/L	NA	NA	NA
2-Butanone (MEK)			ug/L	NA	NA	NA
Carbon disulfide		700*	ug/L	NA	NA	NA
Carbon tetrachloride	5	5	ug/L	NA	NA	NA
Chlorobenzene (Monochlorobenzene)	100	100	ug/L	NA	NA	NA
Chlorodibromomethan	100/80 (THM)	140*	ug/L	NA	NA	NA
Chloroethane			ug/L	NA	NA	NA
Chloroform	100/80 (THM)	0.02a	ug/L	NA	NA	NA
Chloromethane			ug/L	NA	NA	NA
1,1-Dichloroethane		7*	ug/L	NA	NA	NA
1,2-Dichloroethane	5	5	ug/L	NA	NA	NA
1,1-Dichloroethene	7	7	ug/L	NA	NA	NA
cis-1,2-Dichloroethene	70	70	ug/L	NA	NA	NA
trans-1,2-Dichloroethene	100	100	ug/L	NA	NA	NA
1,2-Dichloropropane	5	5	ug/L	NA	NA	NA
cis-1,3-Dichloropropene		1a	ug/L	NA	NA	NA
trans-1,3-Dichloropropene		(cis + trans)	ug/L	NA	NA	NA
Ethyl benzene	700	700	ug/L	NA	NA	NA
2-Hexanone (MBK)			ug/L	NA	NA	NA
4-Methyl-2-pentanone (MIBK)			ug/L	NA	NA	NA
Methylene chloride (Dichloromethane)	5	5	ug/L	NA	NA	NA
Styrene	100	100	ug/L	NA	NA	NA
1,1,2,2-Tetrachloroethane			ug/L	NA	NA	NA
Tetrachloroethene	5	5	ug/L	NA	NA	NA
Toluene	1000	1000	ug/L	NA	NA	NA
1,1,1-Trichloroethane	200	200	ug/L	NA	NA	NA
1,1,2-Trichloroethane	5	5	ug/L	NA	NA	NA
Trichloroethene	5	5	ug/L	NA	NA	NA
Vinyl Acetate		7000*	ug/L	NA	NA	NA
Vinyl Chloride	2	2	ug/L	NA	NA	NA
Xylenes (total)	10000	10000	ug/L	NA	NA	NA
Semivolatiles (ug/L)						
Acenaphthene		420*	ug/L	U/ 10	U/ 10	U/ 10
Acenaphthylene			ug/L	U/ 10	U/ 10	U/ 10
Anthracene	PAH	2100*	ug/L	U/ 10	U/ 10	U/ 10
Benzidine			ug/L	U/ 10	U/ 10	U/ 10
Benzo[a]anthracene	PAH	0.13a	ug/L	U/ 10	U/ 10	U/ 10
Benzo[b]fluoranthene	PAH	0.18a	ug/L	U/ 10	U/ 10	U/ 10
Benzo[k]fluoranthene	PAH	0.17a	ug/L	U/ 10	U/ 10	U/ 10
Benzo[g,h,i]perylene	PAH		ug/L	U/ 10	U/ 10	U/ 10
Benzo[a]pyrene	0.2	0.2	ug/L	U/ 10	U/ 10	U/ 10
Benzoic Acid		28000*	ug/L	U/ 50	U/ 50	U/ 50
Benzyl Alcohol			ug/L	U/ 20	U/ 20	U/ 20
bis(2-chloroethoxy)methane			ug/L	U/ 10	U/ 10	U/ 10
bis(2-chloroethyl)ether		10a	ug/L	U/ 10	U/ 10	U/ 10
bis(2-chloroisopropyl)ether			ug/L	U/ 10	U/ 10	U/ 10
bis(2-ethylhexyl)phthalate	6	6	ug/L	U/ 10	U/ 10	U/ 10
4-Bromophenyl-phenylether			ug/L	U/ 10	U/ 10	U/ 10
Butylbenzylphthalate		1400*	ug/L	U/ 10	U/ 10	U/ 10
4-Chloroaniline		28*	ug/L	U/ 10	U/ 10	U/ 10

Table 3
Validated Analytical Results
Blackwell Landfill, DuPage County, Illinois

Parameter / Sample Date	IEPA MCLs	IEPA Class I Standards	Units	SVBLK01 11/7/97 Conc	LQ/DVQ	RDL	SVBLK02 11/12/97 Conc	LQ/DVQ	RDL	SVBLK03 11/13/97 Conc	LQ/DVQ	RDL
4-Chloro-3-methylphenol			ug/L		U/	20		U/	20		U/	20
2-Chloronaphthalene			ug/L		U/	10		U/	10		U/	10
2-Chlorophenol		35*	ug/L		U/	10		U/	10		U/	10
4-Chlorophenyl-phenylether			ug/L		U/	10		U/	10		U/	10
Chrysene	PAH	1.5a	ug/L		U/	10		U/	10		U/	10
Dibenzo[a,h]anthracene		0.3a	ug/L		U/	10		U/	10		U/	10
Dibenzofuran			ug/L		U/	10		U/	10		U/	10
1,2-Dichlorobenzene (o)	600	600	ug/L		U/	10		U/	10		U/	10
1,3-Dichlorobenzene (m)			ug/L		U/	10		U/	10		U/	10
1,4-Dichlorobenzene (p)	75	75	ug/L		U/	10		U/	10		U/	10
3,3-Dichorobenzidine		20a	ug/L		U/	20		U/	20		U/	20
2,4-Dichlorophenol		21*	ug/L		U/	10		U/	10		U/	10
Diethylphthalate		5600*	ug/L		U/	10		U/	10		U/	10
2,4-Dimethylphenol		140*	ug/L		U/	10		U/	10		U/	10
Dimethylphthalate			ug/L		U/	10		U/	10		U/	10
Di-n-butylphthalate		700*	ug/L		U/	10		U/	10		U/	10
4,6-Dinitro-2-methylphenol			ug/L		U/	50		U/	50		U/	50
2,4-Dinitrophenol		14*	ug/L		U/	50		U/	50		U/	50
2,4-Dinitrotoluene		0.02a	ug/L		U/	10		U/	10		U/	10
2,6-Dinitrotoluene		0.1a	ug/L		U/	10		U/	10		U/	10
Di-n-octylphthalate		140*	ug/L		U/	10		U/	10		U/	10
Fluoranthene	PAH	280*	ug/L		U/	10		U/	10		U/	10
Fluorene	PAH	280*	ug/L		U/	10		U/	10		U/	10
Hexachlorobenzene	1	0.06a	ug/L		U/	10		U/	10		U/	10
Hexachlorobutadiene			ug/L		U/	10		U/	10		U/	10
Hexachlorocyclopentadiene	50	50	ug/L		U/	10		U/	10		U/	10
Hexachloroethane		7*	ug/L		U/	10		U/	10		U/	10
Indeno[1,2,3-cd]pyrene	PAH	0.43a	ug/L		U/	10		U/	10		U/	10
Isophorone		1400*	ug/L		U/	10		U/	10		U/	10
2-Methylnaphthalene			ug/L		U/	10		U/	10		U/	10
2-Methylphenol (o-Cresol)		350*	ug/L		U/	10		U/	10		U/	10
3&4-Methylphenol (Cresols)			ug/L		U/	10		U/	10		U/	10
Naphthalene		25*	ug/L		U/	10		U/	10		U/	10
2-Nitroaniline			ug/L		U/	50		U/	50		U/	50
3-Nitroaniline			ug/L		U/	50		U/	50		U/	50
4-Nitroaniline			ug/L		U/	20		U/	20		U/	20
Nitrobenzene		3.5*	ug/L		U/	10		U/	10		U/	10
2-Nitrophenol			ug/L		U/	10		U/	10		U/	10
4-Nitrophenol			ug/L		U/	50		U/	50		U/	50
N-Nitrosodimethylamine			ug/L		U/	10		U/	10		U/	10
N-Nitroso-di-n-propylamine		10a	ug/L		U/	10		U/	10		U/	10
N-Nitrosodiphenylamine		10a	ug/L		U/	10		U/	10		U/	10
Pentachlorophenol	1	1	ug/L		U/	50		U/	50		U/	50
Phenanthrene	PAH		ug/L		U/	10		U/	10		U/	10
Phenol		100	ug/L		U/	10		U/	10		U/	10
Pyrene	PAH	210*	ug/L		U/	10		U/	10		U/	10
1,2,4-Trichlorobenzene	70	70	ug/L		U/	10		U/	10		U/	10
2,4,5-Trichlorophenol		700*	ug/L		U/	10		U/	10		U/	10
2,4,6-Trichlorophenol		6.4a	ug/L		U/	10		U/	10		U/	10

Table 3
Validated Analytical Results
Blackwell Landfill, DuPage County, Illinois

Parameter / Sample Date	EPA MCLs	IEPA Class I Standards	Units	SVBLK01 11/7/97 Conc LQ/DVQ RDL	SVBLK02 11/12/97 Conc LQ/DVQ RDL	SVBLK03 11/13/97 Conc LQ/DVQ RDL
Inorganics (mg/L)						
Aluminum	0.05 - 0.2**		mg/L	NA	NA	NA
Antimony	0.006	0.006	mg/L	NA	NA	NA
Arsenic	0.05	0.05	mg/L	NA	NA	NA
Barium	2	2	mg/L	NA	NA	NA
Beryllium	0.004	0.004	mg/L	NA	NA	NA
Cadmium	0.005	0.005	mg/L	NA	NA	NA
Calcium			mg/L	NA	NA	NA
Chromium (total)	0.1	0.1	mg/L	NA	NA	NA
Cobalt		1	mg/L	NA	NA	NA
Copper	1.3 (at tap)+	0.65	mg/L	NA	NA	NA
Iron	0.3**	5	mg/L	NA	NA	NA
Lead	0.015+	0.0075	mg/L	NA	NA	NA
Magnesium			mg/L	NA	NA	NA
Manganese	0.05**	0.15	mg/L	NA	NA	NA
Mercury	0.002 (inorganic)	0.002	mg/L	NA	NA	NA
Nickel	0.1	0.1	mg/L	NA	NA	NA
Potassium			mg/L	NA	NA	NA
Selenium	0.05	0.05	mg/L	NA	NA	NA
Silver	0.1**	0.05	mg/L	NA	NA	NA
Sodium			mg/L	NA	NA	NA
Thallium	0.002	0.002	mg/L	NA	NA	NA
Vanadium		0.049*	mg/L	NA	NA	NA
Zinc	5**	5	mg/L	NA	NA	NA
Cyanide	0.2	0.2	mg/L	NA	NA	NA
Chloride	250**	200	mg/L	NA	NA	NA
Sulfate	500	400	mg/L	NA	NA	NA
Total Dissolved Solids	500**	1200	mg/L	NA	NA	NA

*not listed as standard in 620.410:
** Secondary MCLs:
a - Health Advisory Concentration equal to ADL for carcinogens
+ Action Level listed in Drinking Water Regulations
THM - Total for all THMs cannot exceed the 80ug/l level
PHA - Polyaromatic Hydrocarbon

Bold = Exceeds MCLS
[redacted]

Sample Label Identifiers:
BW - Blackwell
GW - groundwater
G107 - well identification
FB - field blank
TB - trip blank
VB - volatile blank
SVB - semi-volati
-01 - sample
-91 - duplicate sar

Qualifier Definitions:
The table presents any detected concentrations, followed by the Lab Qualifiers / Data Validation Qualifiers, follo
U/ - Not detected
/U - Not detected, blank contamination
J/ - Estimated value
/UJ - Not detected, estimated detection limit
/J - Estimated value, data qualifier added
/R - Unusable, data qualifier added
S/ - Analysis performed using MSA
*/ - Duplicate outside control limits

Table 4
Summary of Detections in Monitoring Wells
Blackwell Landfill, DuPage County, Illinois

Parameter	EPA MCLs	IEPA Class I Standards	Units	Maximum Concentration Detected in Outwash Detection Wells	Maximum Concentration Detected in Bedrock Detection Wells	Maximum Concentration Detected in Outwash Compliance Wells	Maximum Concentration Detected in Bedrock Compliance Wells
Volatiles							
1,1-Dichloroethane		7*	ug/L	3.4	0	0	0
cis-1,2-Dichloroethene	70	70	ug/L	30.3	0	7.1	0
Trichloroethene	5	5	ug/L	2.9	0	0	0
Semivolatiles							
bis(2-ethylhexyl)phthalate	6	6	ug/L			0	
Phenol		100	ug/L	46	40	22	
Inorganics							
Antimony	0.006	0.006	mg/L	0.003	0		0.002
Barium	2	2	mg/L	0.098	0.101	0.094	0.204
Calcium			mg/L	153	99.1	103	270
Chromium (total)	0.1	0.1	mg/L	0	0	0	0.032
Cobalt		1	mg/L	0.001	0.002	0.003	0.002
Copper	1.3 (at tap)+	0.65	mg/L	0.001	0.002	0.003	0.002
Iron	0.3**	5	mg/L	**3.39**	**1.16**	**1.7**	**0.38**
Magnesium			mg/L	75.1	57.5	55.3	57.7
Manganese	0.05**	0.15	mg/L		**0.057**		**0.063**
Nickel	0.1	0.1	mg/L	0.006	0.004	0.02	0.005
Potassium			mg/L	4.6	5.6	6	7.8
Sodium			mg/L	58.1	66.8	63.4	58
Zinc	5**	5	mg/L	0.007	0.034	0.007	0.008
Chloride	250**	200	mg/L	116	108	128	100
Sulfate	500	400	mg/L	198	102	91	112
Total Dissolved Solids	500**	1200	mg/L	**821**	**735**	**723**	**766**

*not listed as standard in 620.410:

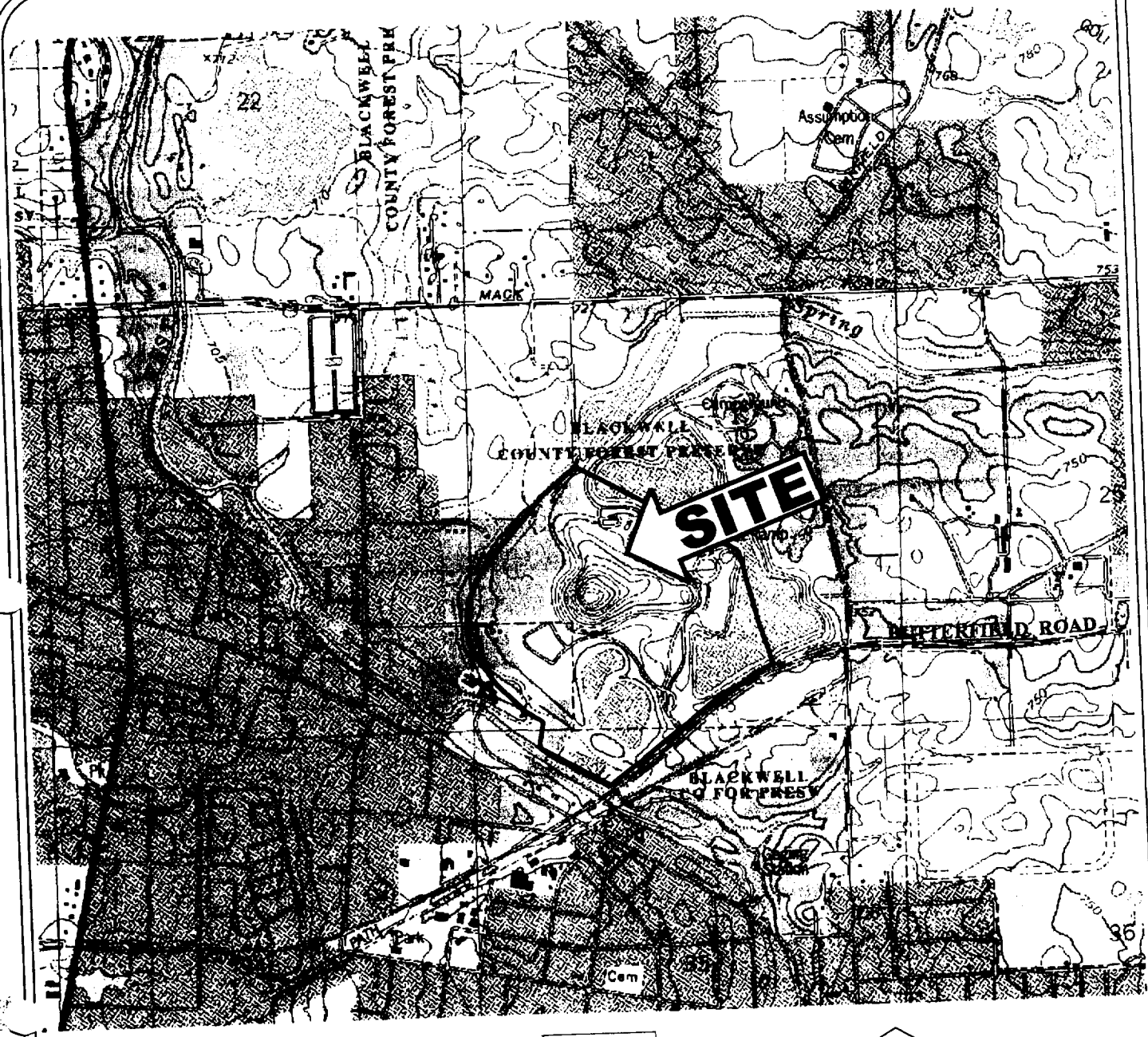
** Secondary MCLs:

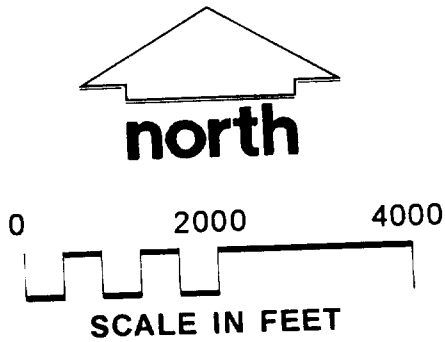
a - Health Advisory Concentration equal to ADL for carcinogens

+ Action Level listed in Drinking Water Regulations

Bold = Exceeds MCLS

FIGURES



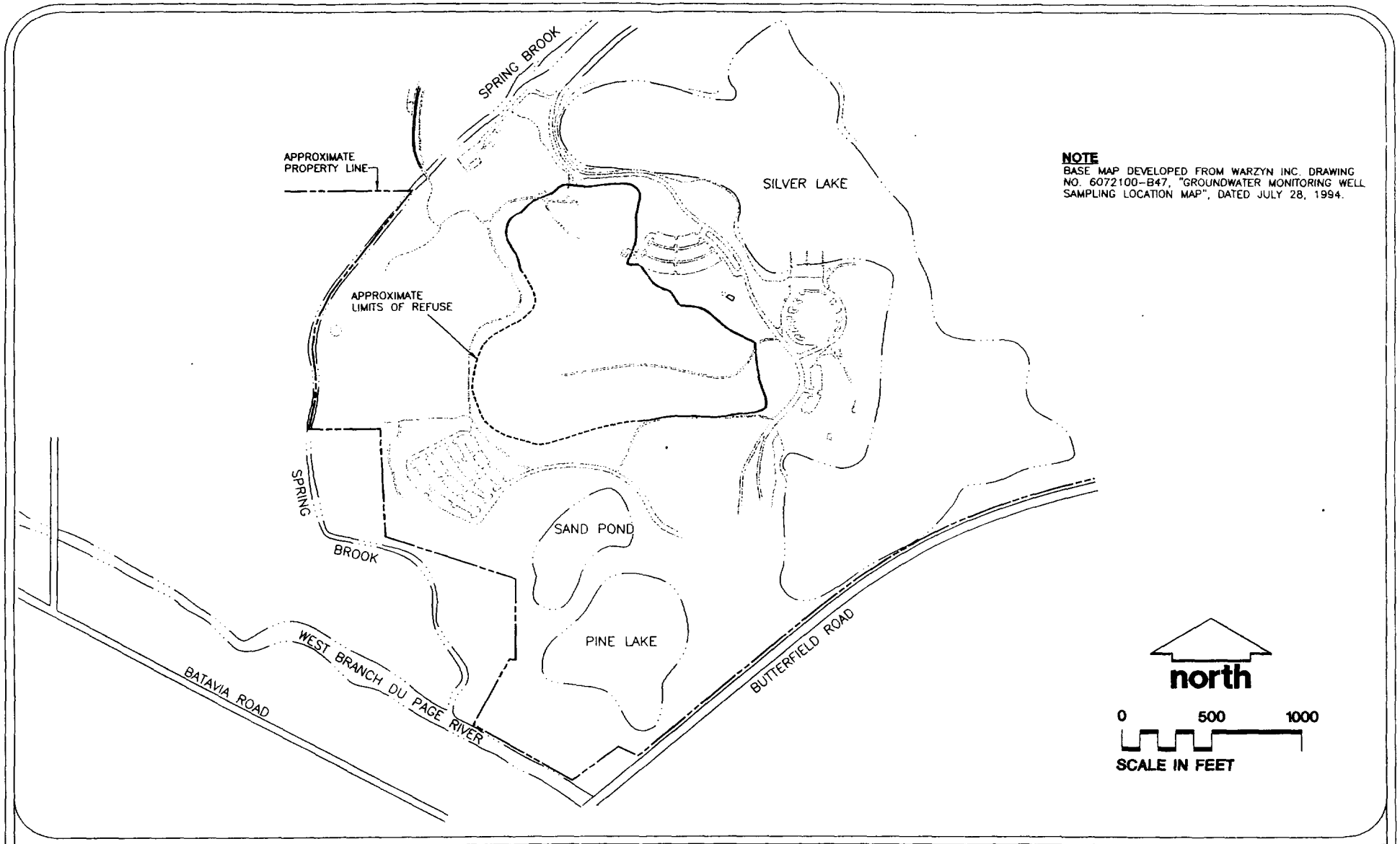


Base map developed from the
Naperville, Illinois 7.5 Minute
U.S.G.S. Topographic Quadrangle Map
Dated 1993

MONTGOMERY WATSON
Chicago, Illinois

FIGURE 1
SITE LOCATION MAP
BLACKWELL LANDFILL NPL SITE,
DUPAGE COUNTY, ILLINOIS

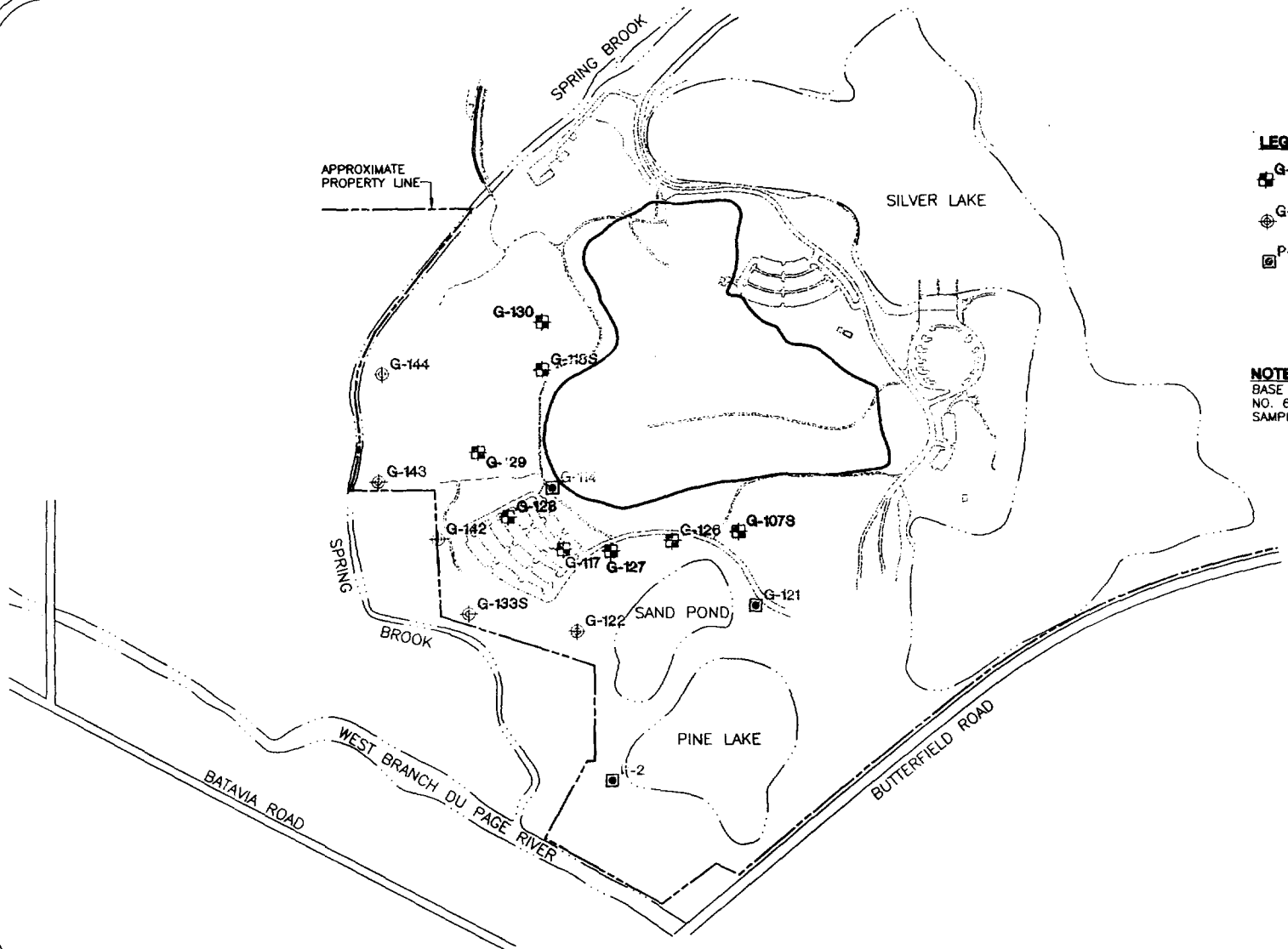
J:/125/08/MWDWGS/SITELOC2.dr



NOTE
BASE MAP DEVELOPED FROM WARZYN INC. DRAWING NO. 6072100-B47, "GROUNDWATER MONITORING WELL SAMPLING LOCATION MAP", DATED JULY 28, 1994.

MONTGOMERY WATSON
Chicago, Illinois

FIGURE 2
SITE FEATURES MAP
BLACKWELL LANDFILL NPL SITE



LEGEND

- G-126 UPPER AQUIFER DETECTION WELLS
- G-122 UPPER AQUIFER COMPLIANCE WELLS
- P-2 UPPER AQUIFER WATER LEVEL WELLS

NOTE

BASE MAP DEVELOPED FROM WARZYN INC. DRAWING NO. 6072100-B47, "GROUNDWATER MONITORING WELL SAMPLING LOCATION MAP", DATED JULY 28, 1994.

north

0 500 1000

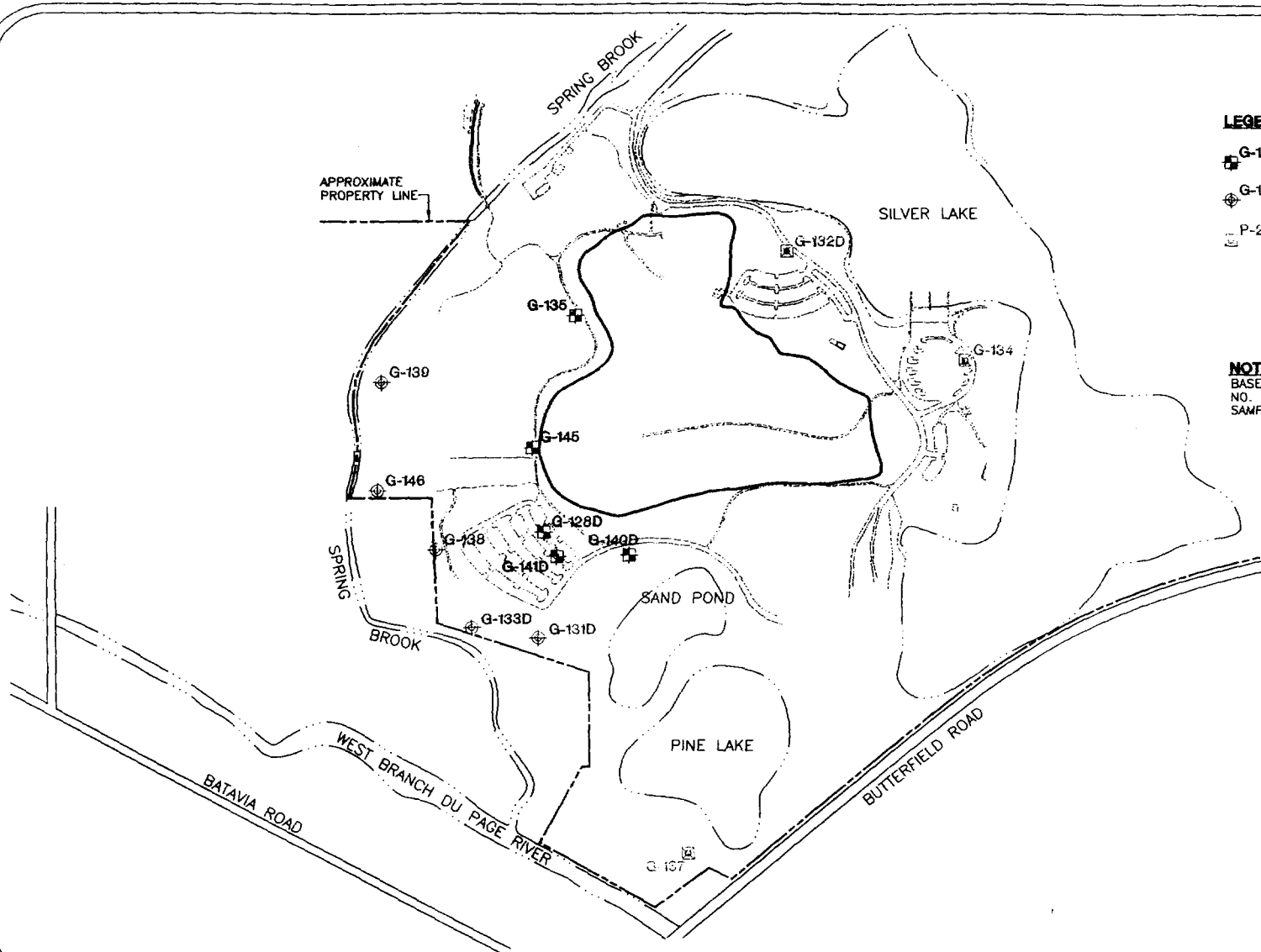
SCALE IN FEET

MONTGOMERY WATSON
Chicago, Illinois

FIGURE 3

UPPER AQUIFER WELL AND PIEZOMETER LOCATIONS

BLACKWELL LANDFILL NPL SITE



LEGEND

G-135 BEDROCK AQUIFER DETECTION WELLS

G-122 BEDROCK AQUIFER COMPLIANCE WELLS

P-2 BEDROCK AQUIFER WATER LEVEL WELLS

NOTE
BASE MAP DEVELOPED FROM WARZYN INC. DRAWING NO. 6072100-B47, "GROUNDWATER MONITORING WELL SAMPLING LOCATION MAP", DATED JULY 28, 1994.

north

0 500 1000

SCALE IN FEET

MONTGOMERY WATSON
Chicago, Illinois

FIGURE 4
BEDROCK AQUIFER WELL LOCATIONS
MONITORING WELL ASSESSMENT REPORT
BLACKWELL LANDFILL NPL SITE

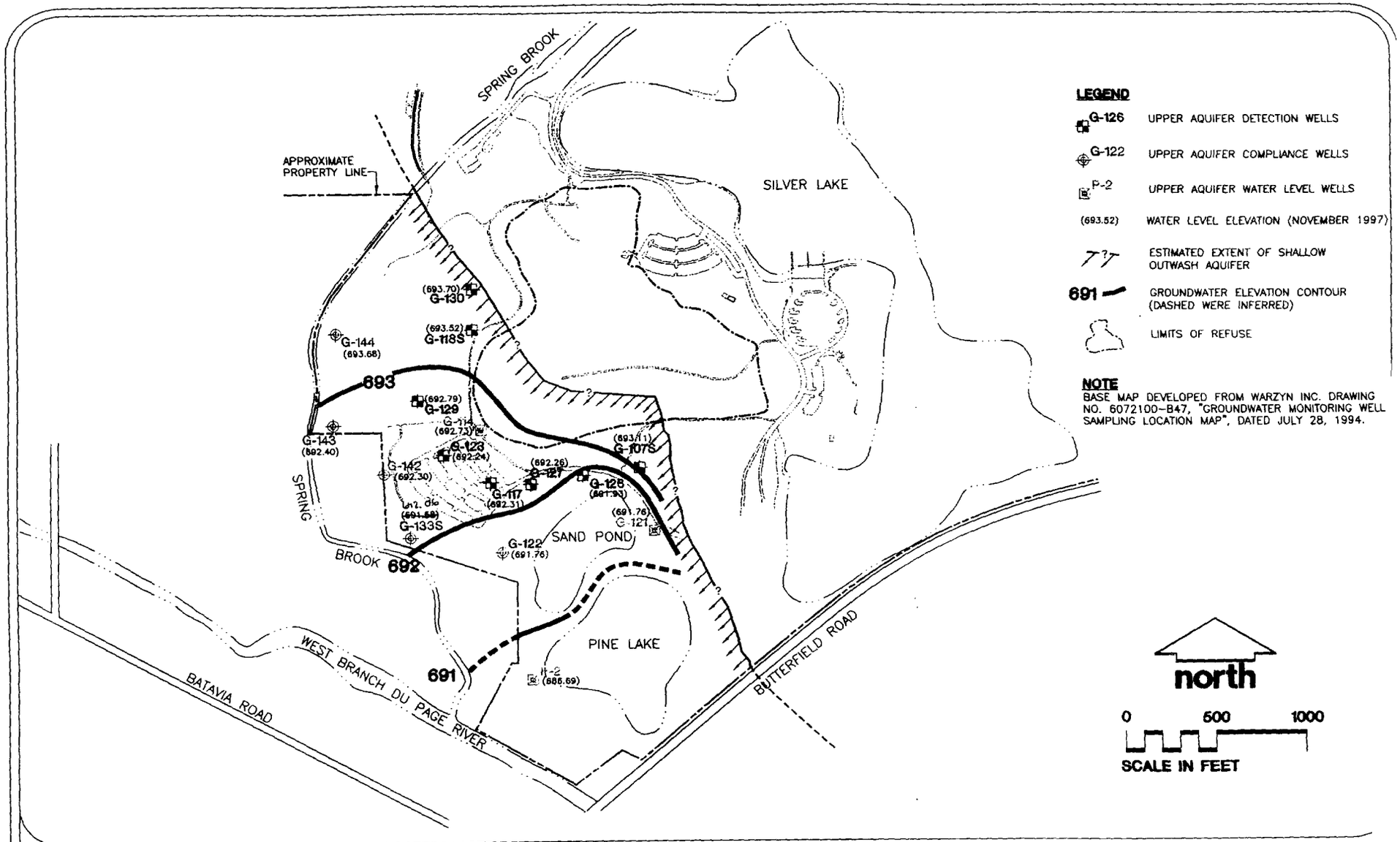


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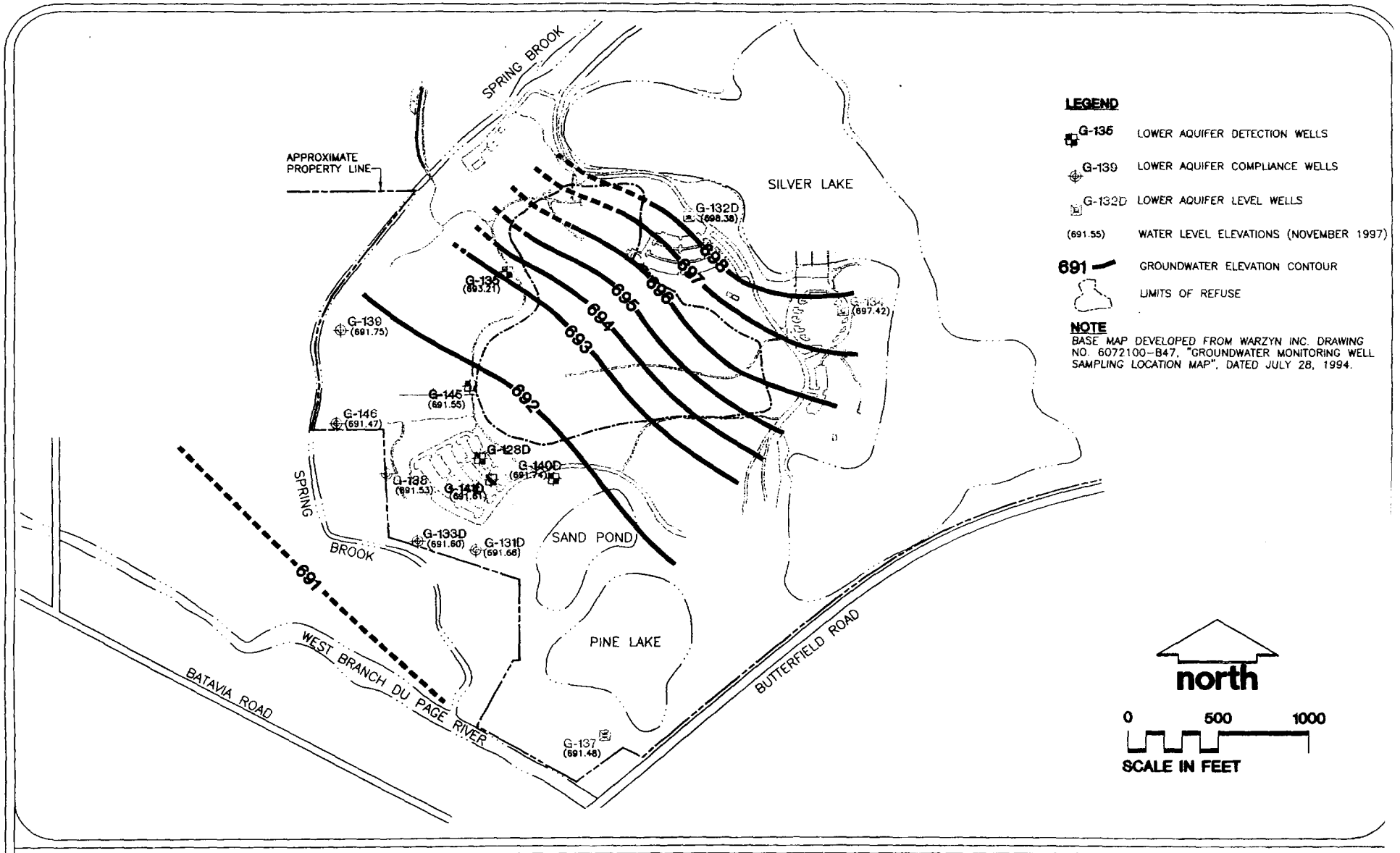
FIGURE 5
UPPER AQUIFER WATER TABLE MAP
BLACKWELL LANDFILL NPL SITE
DU PAGE COUNTY, ILLINOIS



MONTGOMERY WATSON
Chicago, Illinois

FIGURE 6
LOWER AQUIFER POTENTIOMETRIC SURFACE MAP
BLACKWELL LANDFILL NPL SITE