Landfill Self Audit Report

Countryside Landfill

Lake County, Illinois

Prepared for:

Solid Waste Agency of Lake County

Prepared by:

Countryside Landfill, Inc.

August 2008

TAB 1

1. FACILITY IDENTIFICATION AND CONTACTS

a. Please include a location map of the site outlining the facility in an aerial or USGS format.

b. Please provide the following information:

FACILITY NAME: Countryside Landfill, Inc.

LOCATION: 31725 N. Route 83, Grayslake, Illinois 60030

HOURS OF OPERATION: Weekdays 6:00 am to 3:30 pm
Saturdays 7:00 am to 12:00 pm
Sundays: Closed

KEY LANDFILL OPERATIONS PERSONNEL

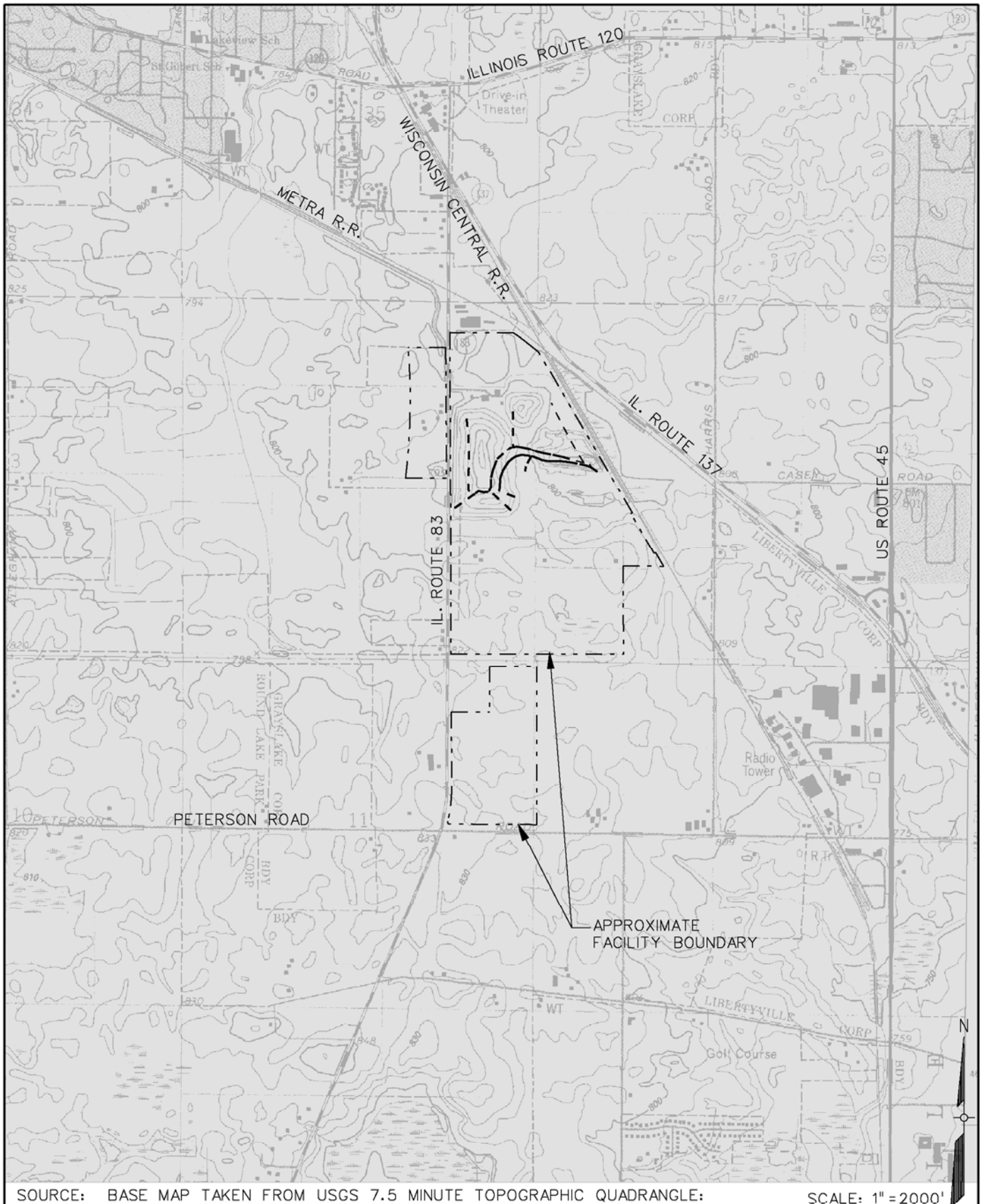
Principal Contact: Mike Hey, (847) 223-9282

General Facility Information

Countryside Landfill is a municipal solid waste landfill located at 31725 N. Route 83 in Lake County, Illinois. The facility provides landfill disposal services for residential, commercial and industrial wastes. The facility operates pursuant to Permit No. 1994-479-LF, originally issued by the Illinois Environmental Protection Agency ("IEPA") on September 27, 1995, and subsequent modifications.

Figure 1 is a location map showing the general location of the facility. The facility is located on Illinois Route 83 approximately one mile south of Illinois Route 120 in Fremont Township, Lake County, Illinois. The property boundaries encompass approximately 343 acres, of which approximately 134 acres are permitted for waste disposal. The remaining acreage is utilized for surface water management, facility support areas, buffer and soil stockpiling. Onsite facilities include offices, equipment maintenance and storage areas, a leachate/condensate storage tank area and citizen drop-off area. There are three buildings onsite associated with facility operations including a combined office/equipment maintenance building, a scale house and a truck wash building.

An aerial photograph of the facility and surrounding area is shown on Figure 2. A closed landfill known as the EDCO Landfill is located to the east and two train stations to the southeast and east, respectively. The Prairie Crossings community is located farther east and northeast of the facility. Railroad tracks separate the facility from the EDCO Landfill. Agricultural uses are located to the west and south of the facility. To the south, Commonwealth Edison transmission line property bisects the southern facility property. The Recycle America Material Recovery Facility is located directly south of the transmission line. The Lake County Fair Association is currently building new fairgrounds north of Petersen Road, southeast of facility property, with an anticipated opening in 2009.



SOURCE: BASE MAP TAKEN FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE: GRAYSLAKE, ILLINOIS. 1993.

SCALE: 1" = 2000'

FIGURE 1
FACILITY LOCATION MAP

COUNTRYSIDE LANDFILL
LAKE COUNTY, ILLINOIS

AUGUST 2008

N

SOURCE: 2007 AERIAL PHOTOGRAPHY.

SCALE: 1" = 2000'

FIGURE 2
FACILITY LOCATION
AERIAL PHOTOGRAPH

COUNTRYSIDE LANDFILL
LAKE COUNTY, ILLINOIS

AUGUST 2008

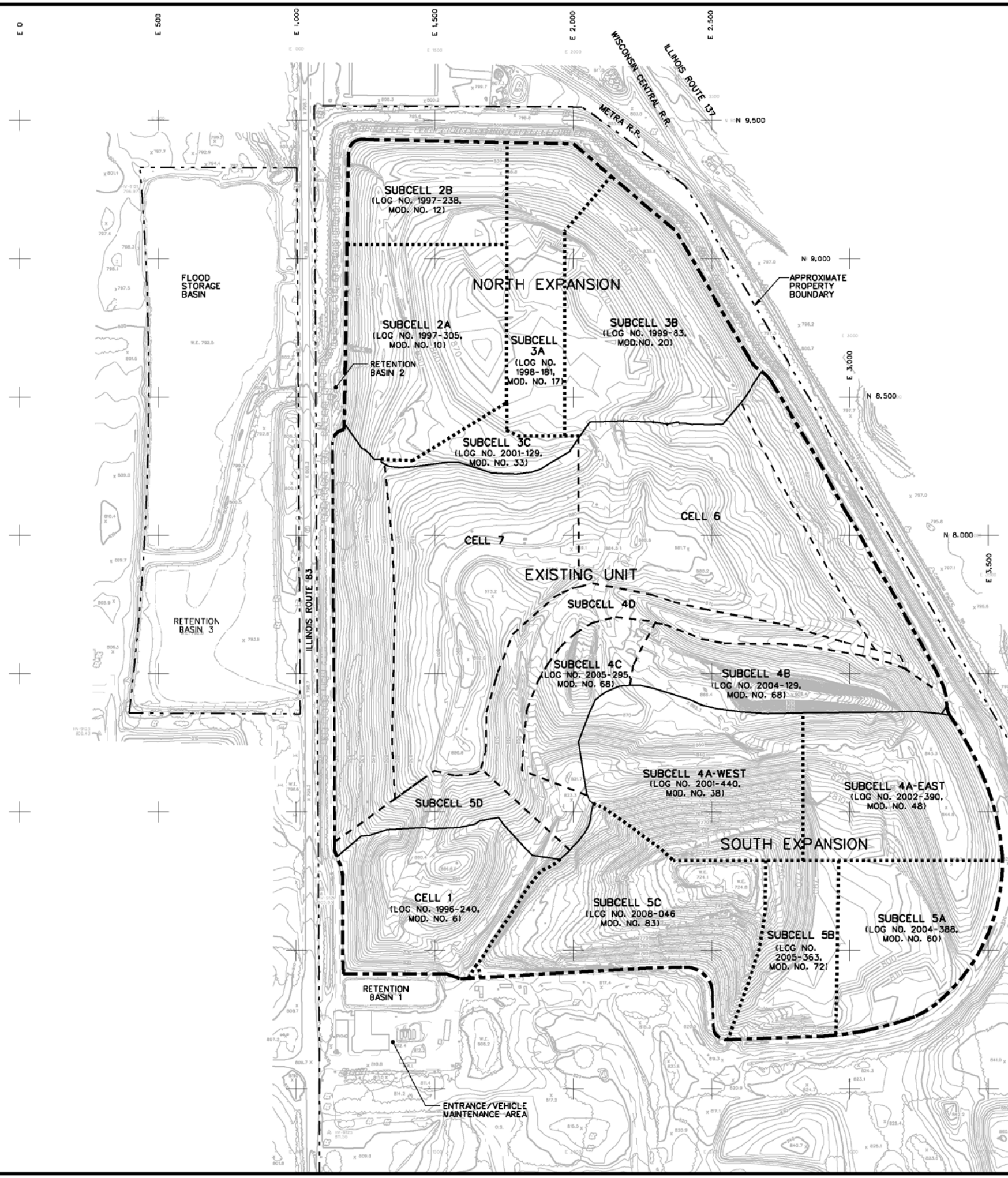
A 3rd party-owned landfill gas to electricity plant is located west of the facility, west of Illinois Route 83. Also located west of the facility property is a 220-acre wetland mitigation project developed as part of the landfill expansion in 1997. A drywall supply company and asphalt plant and associated aggregate stockpiles are located north of the facility.

Facility History and Background Information

Countryside Landfill was originally developed in 1976 under IEPA Development Permit No. 1976-22-DE. This permit allowed the disposal of municipal solid waste in what is currently known as the existing unit. An expansion of the facility was approved in 1995 by Permit No. 1994-479-LF. The expansion consisted of two horizontal areas adjacent to the existing unit, the north expansion area and the south expansion area, and a vertical or piggyback expansion above the existing unit. These areas are shown on Figure 2. The permitted waste disposal footprint is approximately 134 acres and the total airspace of the expansion is approximately 14,199,000 bank cubic yards ("bcy").

The north expansion area consists of Cells 2 and 3 and the south expansion area consists of Cells 1, 4 and 5. Currently in the north expansion area, both Cells 2 and 3 have been fully constructed and approximately 95 percent filled with waste materials. In the south expansion area, Cells 1 and 4 have been constructed and are being filled. In Cell 5, Subcells 5A, 5B and 5C have been constructed and are also being filled. Subcells 4D and 5D have yet to be constructed. The piggyback expansion, consisting of Cells 6 and 7, will be the last area developed and filled. Subcell phasing and associated IEPA operating authorization approvals (log no. and modification no.) are shown on Figure 3.

The facility accepts municipal solid waste, construction and demolition debris and non-hazardous special wastes for disposal. As of January 1, 2008, the remaining disposal capacity at the facility is approximately 6,642,200 bcy and the remaining site life is approximately 10 years based upon current incoming tonnages.



LEGEND:

- EXISTING TOPOGRAPHY
- APPROXIMATE PROPERTY BOUNDARY
- PERMITTED WASTE DISPOSAL LIMITS

NOTES:

1. TOPOGRAPHY BASED ON JULY 29, 2007 TOPOGRAPHIC MAP PREPARED BY AEROMETIRC ENGINEERING. ACTIVE AREAS WERE UPDATED BY GROUND SURVEY PERFORMED BY WEAVER BOOS, OCTOBER 3, 2007 AND JANUARY 3, 2008.

N

0' 200' 400'
SCALE

FIGURE 3

FACILITY LAYOUT

COUNTRYSIDE LANDFILL
LAKE COUNTY, ILLINOIS

AUGUST 2008

TAB 2

2. WASTE QUANTITIES RECEIVED

a. Total waste accepted, monthly and annually for 2006 and 2007.

Response: See Tables 1 and 2.

b. Total waste accepted that is exempt from the surcharge (pursuant to Sec. 22.15 of the Act), monthly and annually for 2006 and 2007.

Response: See Tables 3 and 4.

c. Waste quantity received by origin from Lake County, other Illinois counties, Wisconsin, and other sources.

Response: See Tables 5 and 6. No waste was received from out of state.

Table 1
Total Waste Accepted - Year 2006
Countryside Landfill

Month	Municipal Solid Waste	Construction and Demolition Debris	Certified Non-Special Waste	Special Waste	Road Base Material	Total
January	30,944	407	292	1,222	843	33,708
February	25,535	533	314	82	34	26,498
March	32,459	197	1,866	265	185	34,972
April	33,186	0	5,537	2,129	171	41,023
May	38,987	0	4,188	1,335	50	44,560
June	38,974	0	9,070	2,144	81	50,269
July	33,107	19	3,159	192	131	36,608
August	36,827	0	2,879	918	600	41,224
September	33,087	0	3,093	5,210	10	41,400
October	34,594	10	1,321	1,018	78	37,021
November	33,948	0	2,077	3,720	6	39,751
December	28,727	0	1,238	2,115	548	32,628
Total	400,375	1,166	35,034	20,350	2,737	459,662
%	87.1%	0.3%	7.6%	4.4%	0.6%	100.0%

Note: Quantities are in tons.

Table 2
Total Waste Accepted - Year 2007
Countryside Landfill

Month	Municipal Solid Waste	Construction and Demolition Debris	Certified Non-Special Waste	Special Waste	Road Base Material	Total
January	28,407	0	285	1,681	1,471	31,844
February	23,040	0	185	3,619	18	26,862
March	30,030	0	4,214	13,436	102	47,782
April	31,423	22	4,040	9,733	106	45,324
May	35,302	2	3,685	29,453	19	68,461
June	35,037	2	1,855	18,129	42	55,065
July	35,354	0	1,895	18,491	9	55,749
August	38,186	166	1,649	10,273	12	50,286
September	31,609	0	1,318	6,874	28	39,829
October	34,442	0	509	11,582	0	46,533
November	30,476	0	2,964	18,087	138	51,665
December	26,175	1	251	6,634	5	33,066
Total	379,481	193	22,850	147,992	1,950	552,466
%	68.7%	0.03%	4.14%	26.8%	0.4%	100.0%

Note: Quantities are in tons.

Table 3
Waste Exempt From Surcharge - Year 2006
Countryside Landfill

Month	Total Tons Accepted	Tons Assessed Surcharge	Tons Exempt From Surcharge
January	33,708	31,448	2,260
February	26,498	26,204	294
March	34,973	32,727	2,246
April	41,023	33,714	7,309
May	44,560	39,185	5,375
June	50,270	39,171	11,099
July	36,608	33,262	3,346
August	41,225	37,083	4,142
September	41,399	33,297	8,102
October	37,021	34,900	2,121
November	39,751	34,262	5,489
December	32,628	29,185	3,443
Total	459,664	404,438	55,226

Table 4
Waste Exempt From Surcharge - Year 2007
Countryside Landfill

Month	Total Tons Accepted	Tons Assessed Surcharge	Tons Exempt From Surcharge
January	31,844	29,103	2,741
February	26,862	23,646	3,216
March	47,782	30,779	17,003
April	45,324	33,221	12,103
May	68,461	36,122	32,339
June	55,064	35,760	19,304
July	55,748	36,148	19,600
August	50,287	39,118	11,169
September	39,829	32,202	7,627
October	46,533	35,470	11,063
November	51,665	31,515	20,150
December	33,066	26,936	6,130
Total	552,465	390,020	162,445

Table 5
Waste by County of Origin - Year 2006
Countryside Landfill

Month	Cook	Lake	McHenry	Total
January	2,186	24,808	6,713	33,707
February	643	20,327	5,528	26,498
March	391	26,873	7,708	34,972
April	5,860	25,683	9,479	41,022
May	6,599	28,279	9,682	44,560
June	9,188	30,097	10,986	50,271
July	3,404	25,322	7,883	36,609
August	2,448	30,186	8,590	41,224
September	5,669	28,057	7,672	41,398
October	1,744	27,623	7,654	37,021
November	5,302	26,441	8,008	39,751
December	3,007	23,030	6,592	32,629
Total	46,441	316,726	96,495	459,662
%	10.1%	68.9%	21.0%	100.0%

Note: Quantities are in tons.

Table 6
Waste by County of Origin - Year 2007
Countryside Landfill

Month	Cook	Lake	McHenry	Total	
January	1,541	23,559	6,744	31,844	31844
February	2,196	17,235	7,431	26,862	26862
March	16,871	23,857	7,054	47,782	47782
April	12,766	24,479	8,079	45,324	45324
May	31,350	26,776	10,335	68,461	68461
June	20,542	26,728	7,795	55,065	55065
July	21,648	26,592	7,509	55,749	55749
August	13,576	28,570	8,140	50,286	50286
September	9,578	23,616	6,635	39,829	39829
October	13,029	26,184	7,320	46,533	46533
November	19,970	25,242	6,453	51,665	51665
December	5,366	20,176	7,524	33,066	33066
Total	168,433	293,014	91,019	552,466	552466
%	30.5%	53.0%	16.5%	100.0%	

Note: Quantities are in tons.

TAB 3

3. PERMIT HISTORY / STATUS

a. Provide information on all current federal, state and local permits related to the facility for any associated activity. This should include who the permits are with, what the permit is regulating, what is the compliance status of the permit, and what permitting activity occurred in 2006 and 2007.

Response: The facility is currently regulated by various IEPA permit programs, including the Bureau of Land, Permit No. 1994-479-LF; Bureau of Air, Clean Air Act Permit Program Permit No. 97040110; and Bureau of Water, General NPDES Permit for Industrial Stormwater Discharges, No. ILR000152. These and other facility permits are summarized on Table 7.

b. Provide information on all pending federal, state and local permits related to the facility for any associated activity.

Response: See Table 8

Table 7 – Attachment 1
Summary of Modifications Issued During Calendar Year 1996
For Permit No. 1994-479-LF
Countryside Landfill

Modification No.	Date of Issuance	Log Number	Description
1	March 15, 1996	1995-459	Approved: (1) revised operating hours; (2) revisions to groundwater monitoring points; (3) revisions to well installation and removal schedule; and (4) revised closure and post-closure care cost estimates.
2	June 6, 1996	1996-081	Approved: (1) removal of intermediate gas collection layer for existing landfill; (2) removal of the geosynthetic-bentonite layer from the sideslopes of the leachate collection system; (3) increased permeability for sand in the leachate collection system to $1x10^{-2}$ cm/sec; (4) revised surface water management plan for Cell 1; (5) revised closure and post-closure care cost estimates.
3	September 30, 1996	1996-212 1996-234 1996-245	Approved: (1) operation of gas management and leachate management system components; (2) submission of Log No. 1996-245 which satisfied Condition No. VIII.23; and (3) an IEPA initiated correction clarifying removal of the geocomposite drainage layer from sideslopes of the leachate collection system.
4	November 8, 1996	1996-211	Approved: (1) construction of 9.9 acres of final cover on the east and west sideslopes and (2) an IEPA initiated correction of the IEPA's mailing address for the Planning and Reporting Section.

Table 7 – Attachment 2
Summary of Modifications Issued During Calendar Year 1997
For Permit No. 1994-479-LF
Countryside Landfill

Modification No.	Date of Issuance	Log Number	Description
5	January 24, 1997	1996-420	Approved construction of liner system including leachate drainage and collection system for Cell 1, approximately 4.6 acres.
6	April 7, 1997	1997-004 1997-009 1997-024	Approved: (1) revised leachate drainage layer thickness; carbonate content and carbonate content ASTM test; (2) use of additional alternative daily cover: wood chips; shredded tires and petroleum contaminated soil; (3) construction, operation and closure plan for a tire wash station; (4) new groundwater monitoring wells and piezometers; (5) revised groundwater monitoring plan; and (6) an IEPA initiated modification removing Condition II.7 regarding use of foams as alternate daily covers.
7	May 21, 1997	1997-084	Approved deletion of wells G0*M and G04U from the groundwater monitoring program.
8	June 11, 1997	1997-163	Approved operation of Lift Stations 1 and 2 and associated piping.
9	September 4, 1997	1997-206	Approved the design of Cell 2 and the design of the temporary leachate holding tank.
10	October 14, 1997	1997-305	Approved: (1) operation of Cell 2A: (2) 21.2 acres of surface water management area; (3) the leachate control trench and associated lift station; and (4) two 21,000 gallon temporary leachate storage tanks
11	November 3, 1997	1997-237	Approved: (1) modification of the vertical spacing of the horizontal gas collection pipes from 10 to 30 feet; (2) removal of filter fabric from the design of the gas collection system; and (3) modification of the pipe bedding gravel specification to less than 5% loss in volume per ASTM 3042.
12	December 22, 1997	1997-383	Approved: (1) operation of Subcell 2B; operation of leachate storage tanks and secondary containment; (3) modification of the leachate drainage and collection system; and (4) access road construction.

Table 7 – Attachment 3
Summary of Modifications Issued During Calendar Year 1998
For Permit No. 1994-479-LF
Countryside Landfill

Modification No.	Date of Issuance	Log Number	Description
13	March 20, 1998	1997-198 1997-270	Approved: (1) revision of groundwater monitoring plan and (2) deletion of wells as described in Log No. 1997-270.
14	April 2, 1998	1997-425	Approved: (1) removal of the compacted clay barrier in the design of the leachate control trench; and (2) changing the leachate collection pipe in the leachate control trench to a 4-inch corrugated polyethylene pipe.
15	May 5, 1998	1998-047	Approved; (1) revised CQA plan; (2) revision of the topsoil layer of the final protective layer; (3) revisions to the leak detection, leachate drainage system and leachate storage system; and (4) IEPA initiated modifications updating the requirements for post-closure leachate
16	May 14, 1998	1998-142	Approved gas header pipe and blower system to the existing landfill gas extraction system.
17	August 6, 1998	1998-181	Approved: (1) operation in Cell 3A; (2) clarifies the thickness and carbonate content for the leachate drainage layer; and (3) IEPA initiated modifications regarding Attachment 1 and a new requirement for an annual certification revising the requirements for the annual report.
18	September 30, 1998	1998-223	Approved: (1) the revised design of the leachate management system; (2) IEPA initiated modification identifying the regulation for management of tires received at the facility; (3) IEPA initiated modification indicating that the minimum post-closure care period is 30 years; (4) IEPA initiated modification revising Condition XI.3 for clarity; and (5) IEPA initiated modification revising the wording for sending reports to the IEPA.

Table 7 – Attachment 4
Summary of Modifications Issued During Calendar Year 1999
For Permit No. 1994-479-LF
Countryside Landfill

Modification No.	Date of Issuance	Log Number	Description
19	March 1, 1999	1998-444	Approved: (1) construction documentation & operation for modified leachate tank storage area; (2) construction documentation and operation of Cells 2 & 3 leachate force main; and (3) construction documentation and operation of modified lift station 4.
20	April 19, 1999	1998-411 1998-429 1999-032 1999-083	Approved: (1) construction documentation & operation for Subcell 3B; (2) revisions to leachate drainage layer & liner certification procedures; (3) revisions to leachate monitoring requirements; (4) use of plastic panels as ADC & increase in ADC area; (5) installation of temporary cover system on existing unit; (6) construction of gas to energy plant; and (7) revised closure and post-closure care cost estimates.
21	September 28, 1999	1999-197	Approved: (1) revisions to final contours; (2) permit transfer from USA Waste Services, Inc. to Countryside Landfill, Inc.; and (3) revised closure and post-closure care cost estimates.
22	October 4, 1999	1999-239	Approved modified litter control plan.
23	October 15, 1999	1999-196 1999-203	Approved: (1) use of prediction intervals for groundwater statistical procedures; (2) revised AGQS/MAPC values; and (3) addition of seven parameters to groundwater monitoring list G2.

Table 7 – Attachment 5
Summary of Modifications Issued During Calendar Year 2000
For Permit No. 1994-479-LF
Countryside Landfill

Modification No.	Date of Issuance	Log Number	Description
24	February 15, 2000	1999-225 1999-316 1999-384 1999-440	Approved: (1) revised 40 CFR 258 Appendix II assessment monitoring list; (2) assessment monitoring plan; and (3) addition of 2,4-dichlorophenol to G2 groundwater monitoring parameter list.
25	June 7, 2000	2000-070	Approved a revised gas management plan.
26	August 10, 2000	2000-178	Approved: (1) dissolved sulfate assessment for well G35U and (2) revised boron AGQS/MAPC value.

Table 7 – Attachment 6
Summary of Modifications Issued During Calendar Year 2001
For Permit No. 1994-479-LF
Countryside Landfill

Modification No.	Date of Issuance	Log Number	Description
27	January 17, 2001	2000-389	Approved: (1) revisions and corrections to leachate monitoring lists L1, L2 & L3 and (2) addition of parameters to groundwater monitoring program.
28	February 2. 2001	2000-284 2000-277	Approved: (1) the use of K factors at 95% confidence and 99% coverage; (2) revised AGQS/MAPC List G1 and G2 values for the weathered till, unweathered till and uppermost aquifer; and (3) intrawell AGQS/MAPC values for well G10U (dissolved sulfate) and G25U (dissolved manganese and dissolved iron).
29	February 23, 2001	2000-439	Approved the development of intrawell AGQS/MAPC values for G10U (total boron), G25U (TDS), G35U (TDS & total sulfate) and G55D (dissolved zinc).
30	March 13, 2001	2000-231	Approved: (1) replacement well R02U; (2) development of intrawell AGQS/MAPC values for R02U (dissolved chloride & TDS), G10U (TDS, dissolved boron, TOC), G31M (dissolved arsenic) and G35U (dissolved sulfate); (3) return to detection monitoring for wells R02U, G10U, G35U, G16U, G17M, G31M, G36M, G40M, G47D & G55D; (4) relocation of wells G17M & G16U; (5) redesignation of G10U as a ZOA well; (6) development of AGQS/MAPC intrawell values for R02U (total chloride, total sodium & total iron), G10U (total sulfate & total iron) and G35U (total sulfate); and (7) development of interwell AGQS/MPAC for total sodium for the unweathered till zone.
31	March 22, 2001	2000-026 2000-197	Approved: (1) permit renewal for five years; (2) revised closure/post-closure cost estimates; (3) revised CQA plan; (4) existing unit leachate maintenance level and (5) revisions to gas monitoring program.
32	May 16, 2001	2001-061	Approved interwell AGQS/MPAC values for weathered till zone, unweathered till zone and uppermost aquifer.
33	June 7, 2001	2001-052 2001-072 2001-099 2001-129	Approved: (1) revisions to the final cover, leachate management and liner systems, construction specification narrative and revised closure/post-closure cost estimates; (2) intrawell AGQS/MAPC values for wells G31M (dissolved iron); (3) revised interwell AGQS/MAPC values for uppermost aquifer; and (4) operation of Subcell 3C.
34	September 27, 2001	2001-224	Approved operation of the gas management system for the existing system, Cell1 of the South Expansion Area and Cell 2 of the North Expansion Area.
35	November 13, 2001	2001-348	Approved operation of gas to energy facility.
36	December 20, 2001	2001-358	Approved: ()1) addition of parameters to groundwater monitoring program; (2) change in leachate monitoring frequency; (3) correction to CQA plan; (4) revised operating hours; (5) elimination of barrier trench from facility design and (6) revisions to gas monitoring conditions.

Table 7 – Attachment 7
Summary of Modifications Issued During Calendar Year 2002
For Permit No. 1994-479-LF
Countryside Landfill

Modification No.	Date of Issuance	Log Number	Description
37	January 8, 2002	2001-302	Approved assessment of well R02U (TDS) and well G25U (dissolved manganese and dissolved chloride).
38	February 6. 2002	2001-440	Approved: (1) operation of Subcell 4A West and Cell 4 leachate control trench and (2) revised cost estimates for closure and post-closure care.
39	March 1, 2002	2001-427	Approved: (1) the development of intrawell AGQS/MAPC values for G27U (TOC & total ammonia); (2) sampling of dissolved chloride levels in well G25U on monthly basis for 12 consecutive months to determine trends; (3) relocation of well G33D within 10 feet of original location; and (4) return to detection monitoring in wells R02U, G17M, G52D and G55D.
40	March 13, 2002	2001-471	Approved recalculation of the interwell dissolved boron AGQS/MAPC value for the weathered till zone.
41	July 22, 2002	2002-090	Approved intrawell AGQS/MAPC values for total boron (well G10U), TDS (well G25U and G35U), total sulfate (wells G10U and G35U), dissolved zinc (well G55D), total chloride (well R02U), total iron (wells R02U and G10U) and total sodium (well R02U) and an interwell AGQS/MAPC value of 107.4 for total sodium.
42	August 26, 2002	2002-137	Approved: (1) the operation of an expansion of the gas management system and (2) revised cost estimates for closure and post-closure care.
43	August 30, 2002	2002-108	Approved modifications to the gas management system.
44	October 8, 2002	2002-196	Approved revised interwell dissolved boron AGQS/MAPC value of 494.3 ug/l for weathered till zone.
45	November 27, 2002	2001-470	Approved the operation of an expansion of the gas management system.

Table 7 – Attachment 8
Summary of Modifications Issued During Calendar Year 2003
For Permit No. 1994-479-LF
Countryside Landfill

Modification No.	Date of Issuance	Log Number	Description
46	March 24, 2003	2002-322	Approved: (1) recalculation of total ammonia and dissolved ammonia AGQS/MAPC values for the uppermost aquifer; (2) a return to detection monitoring at well R33D.
47	April 18, 2003	2002-356 & 2003-050	Approved: (1) the addition of delta-BHC to the List G2 monitoring list; (2) removal of wells G03U, G07M, and G20M form Condition VIII.9; (3) monitoring BOD concentrations at well G22U for four consecutive quarters; (4) recalculation of the weathered till zone dissolved and total boron intrawell AGQS/MAPC value; (5) assessment monitoring program evaluating acetone concentrations at well G46D; (6) development of an intrawell total fluoride AGQS/MAPC value at well G52D; (7) recalculation of the uppermost aquifer interwell dissolved and total boron AGQS/MAPC values; (8) development of a dissolved ammonia intrawell value for well G27U; (9) redevelopment and continued detection monitoring of well R33D; (10) continued detection monitoring of well G51D.
48	May 23, 2003	2002-390	Approved: (1) CQA acceptance report for Cell 4A East; (2) revised closure and post-closure care cost estimates.
49	June 19, 2003	2003-094	Approved: (1) Continued routine detection monitoring of dissolved manganese at well G28M; (2) continued routine detection monitoring of dissolved boron at well G37M; (3) redevelopment of interwell uppermost aquifer dissolved and total nitrate AGQS/MAPC values.
50	July 16, 2003	2003-130	Approved: (1) intrawell AGQS/MAPC values for TOC (well G27U), total ammonia (well G27U) and total phosphorus (well G31M); (2) return TDS to detection monitoring at well R02U; (3) return dissolved manganese and dissolved chloride to detection monitoring at well G25U.
51	July 31, 2003	2003-155	Approved the operation of an expansion of the gas management system.
52	August 27, 2003	2003-198	Approved revisions to the closure/post-closure care cost estimates..
53	October 10, 2003	2003-244 & 2003-287	Approved: (1) installation of one additional weathered till zone well (G11U); (2) a groundwater assessment for TDS at well G53D.
54	December 11, 2003	2003-381 & 2003-395	Approved: (1) the return to detection monitoring for well G46D; (2) continued detection at well R02U; (3) intrawell well AQGS/MAPC for dissolved chloride for well G25U.

Table 7 – Attachment 9
Summary of Modifications Issued During Calendar Year 2004
For Permit No. 1994-479-LF
Countryside Landfill

Modification No.	Date of Issuance	Log Number	Description
55	April 28, 2004	2004-032	Approved continued routine detection monitoring at well G50D.
56	June 17, 2004	2004-080	Approved request to operate an expansion of the gas management system in Cells 2 and 3.
57	July 14, 2004	2004-104 & 2004-129	Approved: (1) uppermost aquifer interwell AGQS/MAPC values for dissolved ammonia (3.5 mg/l), total ammonia (3.6 mg/l), dissolved boron (656.3 ug/l) and total boron (707.3 ug/l); (2) weathered till interwell AGQS/MAPC values for dissolved boron (538.8 ug/l) and total boron (584.7 ug/l); (3) intrawell AGQS/MAPC values for total fluoride (2.1 mg/l, well G52D), dissolved ammonia (6.4 mg/l, well G27U) and BOD (31.0 mg/l, well G22U); (4) construction acceptance report and request to operate for Subcell 4B; (5) revisions to closure and post-closure care plans and cost estimates.
58	September 1. 2004	2004-195	Approved: (1) revised closure and post-closure care cost estimate; (2) landfill equipment washing procedure; (3) final cover design modification, specifically the use of 50-mil LLDPE structured geomembrane/8 oz/yd^{2}geotextile combination on the sideslope; (4) revision to the CQA Plan; (5) modification to the final cover drainage swale; (6) evaluation and modification to gas collection and management system.
59	November 17, 2004	2004-310	Approved: (1) proposal to perform four quarters of background data for well G11U for dissolved ammonia, total ammonia and TOC in order to develop intrawell AGQS values; (2) continued detection monitoring of wells G48D, G49D, G50D and G54D; (4) continued dissolved zinc detection monitoring in well R33D.
60	December 20, 2004	2004-388	Approved: (1) construction acceptance report and request to operate for Subcell 5A; (2) revisions to closure and post-closure care cost estimates.

Table 7 – Attachment 10
Summary of Modifications Issued During Calendar Year 2005
For Permit No. 1994-479-LF
Countryside Landfill

Modification No.	Date of Issuance	Log Number	Description
61	February 10, 2005	2004-294 & 2004-376	Approved revisions to the surface water management system and revised uppermost aquifer AGQS values for total and dissolved nitrate.
62	March 29, 2005	2004-466	Approved results of investigation conducted to determine the source of methane exceedances at perimeter gas probes CL01S, CL01D and CL02S and proposed modifications to the gas management system to address exceedances at probes CL01S and CL01D.
63	April 11, 2005	2005-61	Approved continued detection monitoring at well G55D.
64	April 26, 2005	2004-467	Approved construction acceptance report for gas management system components (system expansion no. 5).
65	June 13, 2005	2004-452	Approved: (1) proposal to develop intrawell AGQS values for dissolved and total ammonia, total organic carbon, total barium, and dissolved and total iron in well G11U; total chloride in well G25U and dissolved and total boron in well G52D and (2) proposal to monitor COD on a quarterly basis for one year in well G46D.
66	July 1, 2005	2005-188	Approved: (1) continued monthly methane monitoring in the headspace of well R33D and (2) submittal of R33D gas monitoring results on or before April 30, 2006.
67	September 23, 2005	2005-192	Approved: (1) annual update to the closure and post-closure care cost estimates and (2) the return to detection monitoring at wells G45D and G47D.
68	November 4, 2005	2005-295	Approved; (1) construction acceptance report for Subcell 4C and (2) revised closure and post-closure care cost estimates.
69	November 14, 2005	2005-230 & 2005-328	Approved: (1) renewal of Permit No.1994-479-LF and (2) continued detection monitoring at wells G38M, G49D, G50D and G55D.

Table 7 – Attachment 11
Summary of Modifications Issued During Calendar Year 2006
For Permit No. 1994-479-LF
Countryside Landfill

Modification No.	Date of Issuance	Log Number	Description
70	February 15, 2006	2005-327 & 2005-456	Approved (1) construction acceptance report for gas management system components (system expansion no. 6) and (2) assessment reports for monitoring wells G27U and G53D and their return to detection monitoring.
71	April 13, 2006	2006-019	Approved (1) revisions to the CQA plan to incorporate liner geomembrane seam acceptance criteria for peel strength, peel separation and locus of failure and (2) addition of beta-BHC to groundwater monitoring List G2.
72	May 10, 2006	2005-363 & 2006-056	Approved (1) construction acceptance report for Subcell 5B; (2) revised closure and post-closure cost care estimates; (3) continuation of routine detection monitoring at wells G27U and G28M; and (4) replacement of monitoring well G28M.
73	July 19, 2006	2006-110	Approved (1) intrawell values at monitoring wells G11U (dissolved ammonia, total ammonia, total organic carbon, total barium, dissolved iron and total iron), G25U (total chloride) and G52D (dissolved boron and total boron); (2) return to detection monitoring at well G46D; and (3) revision of Condition No. I.17(c) to allow additional time for the inspection and placement of the drainage layer in a portion of Subcell 5B.
74	September 13, 2006	2006-148, 2006-174 & 2006-189	Approved (1) operator's demonstration of compliance with the requirements of Condition No. IX.1(c) and IX.1(e); (2) the proposal to install an additional out-of-refuse gas extraction well along west side of landfill; (3) revision of Condition No. IX.1(c), changing the submittal date of the report evaluating the effectiveness of the out-of-refuse wells to February 15, 2007; (4) continued routine detection monitoring at wells G22U and G48D; (5) assessment of dissolved ammonia at well R55D; (6) revised closure and post-closure care cost estimates; (7) construction acceptance report for gas management system components (system expansion no. 7) ; and (8) revision of Condition No. I.17(c) to allow additional time for the inspection and placement of the drainage layer in a portion of Subcell 5B.
75	November 15, 2006	2006-312	Approved the continued routine detection monitoring at wells G22U, G49D and G53D.

Table 7 – Attachment 12
Summary of Modifications Issued During Calendar Year 2007
For Permit No. 1994-479-LF
Countryside Landfill

Modification No.	Date of Issuance	Log Number	Description
76	April 26, 2007	2006-462, 2007-001, 2007-066, 2007-067 & 2007-098	Approved: (1) G28M/R28M alternate source demonstration; (2) addition of Endrin Aldehyde and Endosulfan I to groundwater monitoring list G2; (3) construction acceptance report for gas management system components (system expansion no. 8); (4) groundwater assessment report for well R55D; (5) the use of clean construction and demolition debris as road base for the construction of access roads outside the limits of waste of the landfill; and (6) correction of STORET numbers in the leachate and groundwater monitoring lists.
77	July 3, 2007	2007-084	Approved alternate source demonstration for well R27U.
78	July 25, 2007	2007-172 & 2007-237	Approved: (1) continued monitoring of headspace of groundwater monitoring well R33D and (2) return to detection monitoring for well G52D (dissolved boron four consecutive increases).
79	August 30, 2007	2007-266	Approved revised closure and post-closure care cost estimates.

Table 7 – Attachment 13
Summary of Modifications Issued During Calendar Year 2008 as of August 1
For Permit No. 1994-479-LF
Countryside Landfill

Modification No.	Date of Issuance	Log Number	Description
80	March 3, 2008	2007-496	Approved evaluation of the 2nd Quarter 2007 confirmed increases for wells R02U, R27U, G28M, G36M, G37M, R33D, G53D and well R55D and the assessment proposal for total acetone at well G46D.
81	March 28, 2008	2007-460	Approved: (1) addition of alpha-BHC to the groundwater monitoring list G2; (2) the proposed installation of two in-refuse gas extraction wells W-153 and W-154 to control gas migration along the west of the landfill.
82	May 19, 2008	2008-039	Approved changes to the leachate and groundwater monitoring sections of the permit to reflect the new regulations adopted by the Illinois Pollution Control Board pursuant to rulemaking Docket No. R07-008.
83	July 25, 2008	2008-046	Approved the construction acceptance report for Subcell 5C.

Table 8
Currently Pending Permit Applications
Countryside Landfill

Agency	Date of Submittal	Description
IEPA – Bureau of Land (Pending modifications to Permit No. 1994-479-LF)	April 29, 2008	Request to operate gas management system components; gas management system expansion no. 10 (Log No. 2008-170).
	May 30, 2008	Annual update of closure and post-closure care cost estimates (Log No. 2008-242).
IEPA – Bureau of Air	August 7, 2007	Title V Clean Air Act Permit Program permit renewal.
IEPA – Bureau of Water	July 13, 2001	Application for an individual NPDES permit. A draft of the individual permit, no. IL0075558, was subject to public review and comment May 14, 2008 through June 13, 2008.
	June 13, 2008	Application for state operating permit for tire wash station.

TAB 4

4. LANDFILL CAPACITY ESTIMATES

a. Total in-place CY of airspace, with copy of IEPA certification form as of January 1st of 2008.
Provide as of January 1, 2008, the following information: Remaining permitted area (acres), Remaining permitted capacity (years), Remaining permitted airspace (cubic yards), and Remaining permitted capacity (tons).

Response: Attached is a copy of the January 1, 2008 capacity certification submitted to IEPA.

Remaining permitted area (acres): approximately 33 acres undeveloped

Remaining permitted capacity (years): 10

Remaining permitted airspace (cubic yards): 6,642,200

Remaining permitted capacity (tons): 5,313,800

b. Amount of SWALCO designated capacity remaining (per host agreement).

Response: The disposal agreement between the Solid Waste Agency of Lake County and Countryside Landfill guarantees disposal capacity for Lake County for 20 years from January 1, 1997 to January 2017 based on an annual disposal quantity of 700,000 gate cubic yards ("gcy") per year, guaranteeing Lake County a total disposal volume of 14,000,000 gcy. The volume of waste received from Lake County from 1998 through December 31, 2007 is summarized in Table 9 below.

Table 9
Waste Quantity Received From Lake County 1998-2007
Countryside Landfill

Year	Lake County Waste Quantity Received (gcy)
1998	1,088,128
1999	1,020,966
2000	1,257,258
2001	1,479,219
2002	1,551,252
2003	1,521,221
2004	1,881,489
2005	1,507,219
2006	1,207,682
2007	1,135,216
Total	13,649,650

As shown, of the 14,000,000 gcy of disposal volume guaranteed to Lake County, as of December 31, 2007, 13,649,640 gcy has been consumed, leaving 350,350 gcy of guaranteed disposal volume remaining. Assuming an annual Lake County disposal quantity of 700,000 gcy per year, the remaining guaranteed disposal volume will be consumed by June 16, 2008. After this date, Countryside Landfill will no longer be required to provide any guaranteed disposal volume to Lake County.

c. Basis for capacity estimate and principal assumption factors.

Response: The capacity estimate is based upon comparing the topographic surface of the landfill as of January 1, 2008 and the permitted landfill final contours. The volume between the two surfaces is calculated by InRoads computer software.

d. Provide graphical/tabular history of landfill capacity and annual tons received.

Response: See Figures 4 and 5.

e. Final waste elevations documenting no exceedance of permitted capacity.

Response: See attached cut/fill drawing prepared by R.E. Allen and Associates, Ltd., contained in plastic sleeve. All areas of the landfill are below or at permitted waste elevations.

SOLID WASTE LANDFILL CAPACITY CERTIFICATION
January 1, 2008

For Office Use Only
Initials
Date

I. Site Information *(Please type or print legibly)*

a. Site Identification

Name: Countryside Landfill

FEIN #: 22-2155445 Site # (IEPA): 070250003

Physical Site Location (Street, Road, etc.): 31725 N. Route 83

City: Grayslake Zip Code: 60030 County: Lake

b. Owner/Operator Identification

Owner Name: Countryside Landfill, Inc.

Address: 31725 N. Route 83 P.O. Box:

City: Grayslake State: Il Zip Code: 60030

Contact Name: Chris Rubak

should be familiar with Illinois EPA reporting requirements

Phone #: 847/223-2722 E-mail:

Operator Name: Countryside Landfill, Inc.

Address: 31725 N. Route 83 P.O. Box:

City: Grayslake State: Il Zip Code: 60030

Contact Name: Chris Rubak

should be familiar with Illinois EPA reporting requirements

Phone #: 847/223-2722 E-mail:

List all Certified Operators:

Mike Hey

c. Type of Ownership/Operation *(Check one owner and one operator)*

Municipally owned	☐	Privately owned	☑
Municipally operated	☐	Privately operated	☑

The Illinois Environmental Protection Agency is authorized to request this information pursuant to 35 Ill. Adm. Code 858.207(c) implementing and authorized by Section 22.15(f) of the Environmental Protection Act {415 ILCS 5/22.15(f)(1994)]

Reset Fields

d. **Type of Waste Received** *(mark all that apply)*

- ✓ General Municipal Refuse
- _____ Hazardous
- ✓ Special (Non-hazardous)
- _____ Chemical Only (excluding putrescible)
- _____ Inert Only (excluding chemical and putrescible)
- _____ Other (describe): _____

II. Permit Information

a. Developmental/Construction Permit:

Permit Number: 1994-479-LF Date: September 27, 1995

b. Other Permit(s): Not applicable

1. Number: _____ Date: _____
2. Number: _____ Date: _____

c. Overall increase (or decrease) of air space in cubic yards allowed by the above permit(s):

1. _____ 2. _____

d. The total remaining volume of the landfill (air space) in the developmental/construction and other permits assigned to this site as of January 1, 2008 (in cubic yards):

6,642,200.00 (1)

III. Remaining Volume Available for Waste Disposal

a. Method and date used for determining the remaining volume (check one and provide date):

survey: _____ date: _____; aerial photo: ✓ date: July 29, 2007

other (describe and date): Aerial photography updated with ground survey

b. Remaining permitted volume needed for daily and intermediate cover:

na - already accounted for cubic yards (2)

c. Remaining permitted volume needed for final cover:

na - not included cubic yards (3)

d. Remaining volume available for waste disposal as of January 1, 2008:

6,642,200.00 cubic yards (1) (see II.d above)

\- _____ cubic yards (2) (see III.b above)

\- _____ cubic yards (3) (see III.c above)

= 6,642,200.00 **cubic yards (4)**

Reset Fields

IV. Available Capacity in Terms of "As Received" Waste

a. Average density of waste as received:

500.00 number of pounds per cubic "gate yard"

b. Average compaction ratio of waste as it is placed into the fill area

(How many gate yards can you fit into an in-place yard?):

2.64 cubic yards (5)

c. Volume of waste as received that can be disposed in the remaining permitted capacity:

6,642,200.00 cubic yards (4) (see III.d. above)

X 2.64 cubic yards (5) (see IV.b. above)

= 17,535,408.00 **cubic yards (6)**

V. Life Expectancy of the Solid Waste Landfill

a. Determine how much solid waste was received at the landfill, in "gate yards", during the previous 12 months, January 1, 2007 - December 31, 2007:

1,751,478.00 cubic yards (7)

b. Determine the number of years of life remaining at the current disposal rate:

17,535,408.00 cubic yards (6) (see IV.c. above) divided by

1,751,478.00 cubic yards (7) (see V.a. above) equals

10.01 **years (8)**

c. Expected closure date for facility: 2018

d. Please describe any adjustments or changes to these numbers.

Note: *List any pending permit applications that will increase (or decrease) the landfill capacity and associated air space increase (or decrease) in cubic yards.*

VI. Alternate Method of Determining Available Capacity

a. If an alternate method has been used, please describe:

VII. Signatures

All Solid Waste Landfill Capacity Certifications shall be signed by the person designated below or by a duly authorized representative of the person:

Corporation - By a principal executive officer of at least the level of vice-president.

Partnership or Sole Proprietorship - By a general partner or the proprietor, respectively.

Government - By either a principal executive officer or a ranking elected official.

A person is a duly authorized representative only if:

1. the authorization is made in writing by a person described above; and
2. is submitted with this certification form (a copy of a previously submitted authorization can be used).

I certify that this document and all attachments were prepared under my direction or supervision. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties under Section 44 of the Environmental Protection Act for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner Name: Christopher G. Rubak

Owner Signature: _____ 2/29/08 date

Title: Senior Engineer

Operator Name: Christopher G. Rubak

Operator Signature: _____ 2/29/08 date

Title: Senior Engineer

Engineer Signature: _____

Engineer Name: Christopher G. Rubak 2/29/08 date

Engineer Address: Waste Management
31725 N. Route 83, Grayslake, Ill., 60030

Engineer Phone Number: 847/223-2722

Engineer Seal:

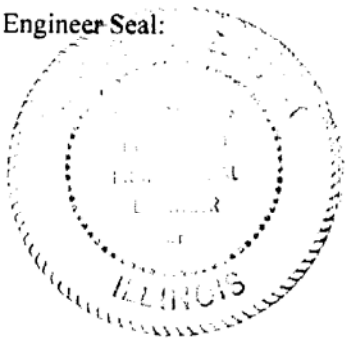


Figure 4
Remaining Capacity
Countryside Landfill

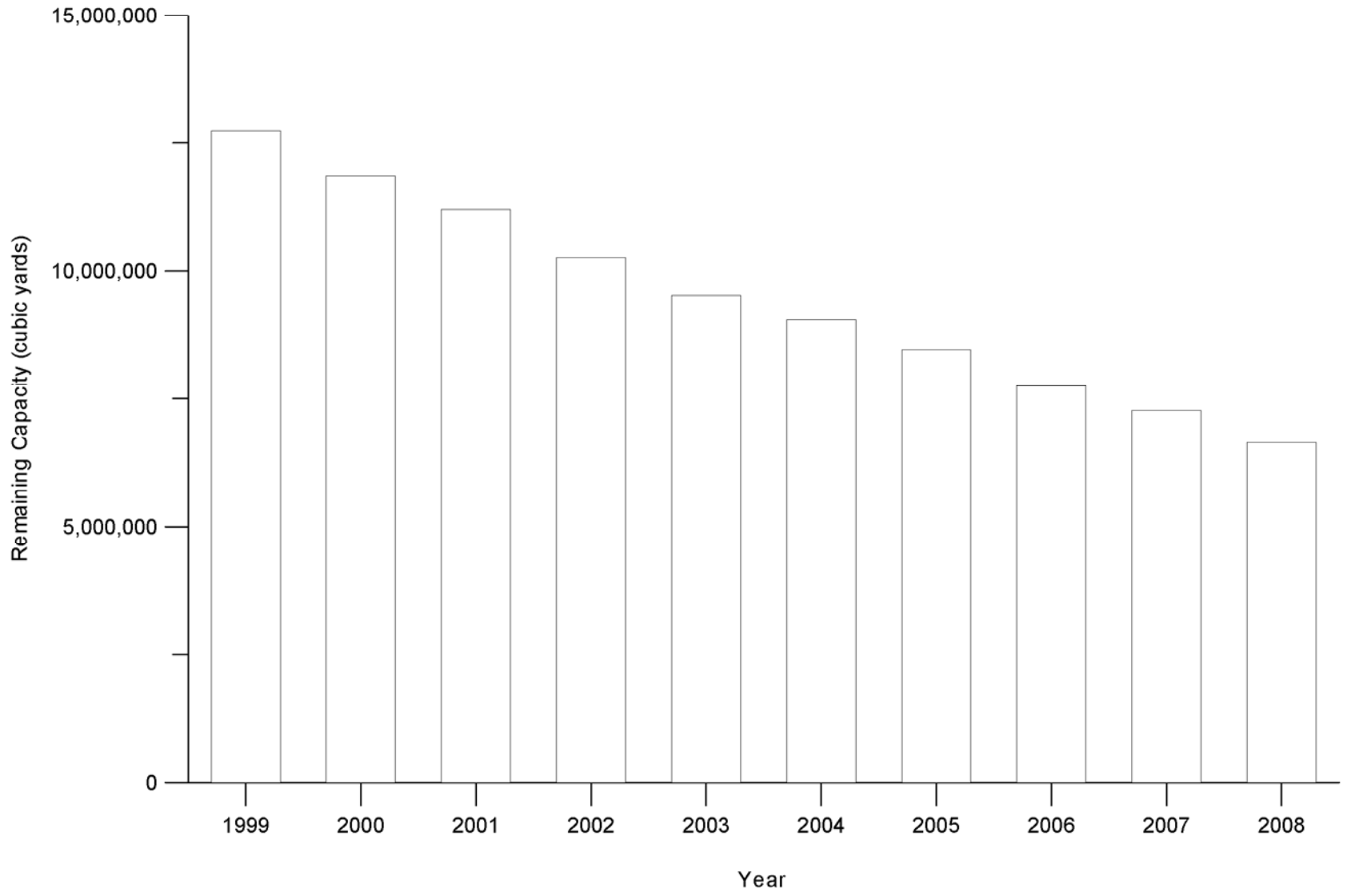
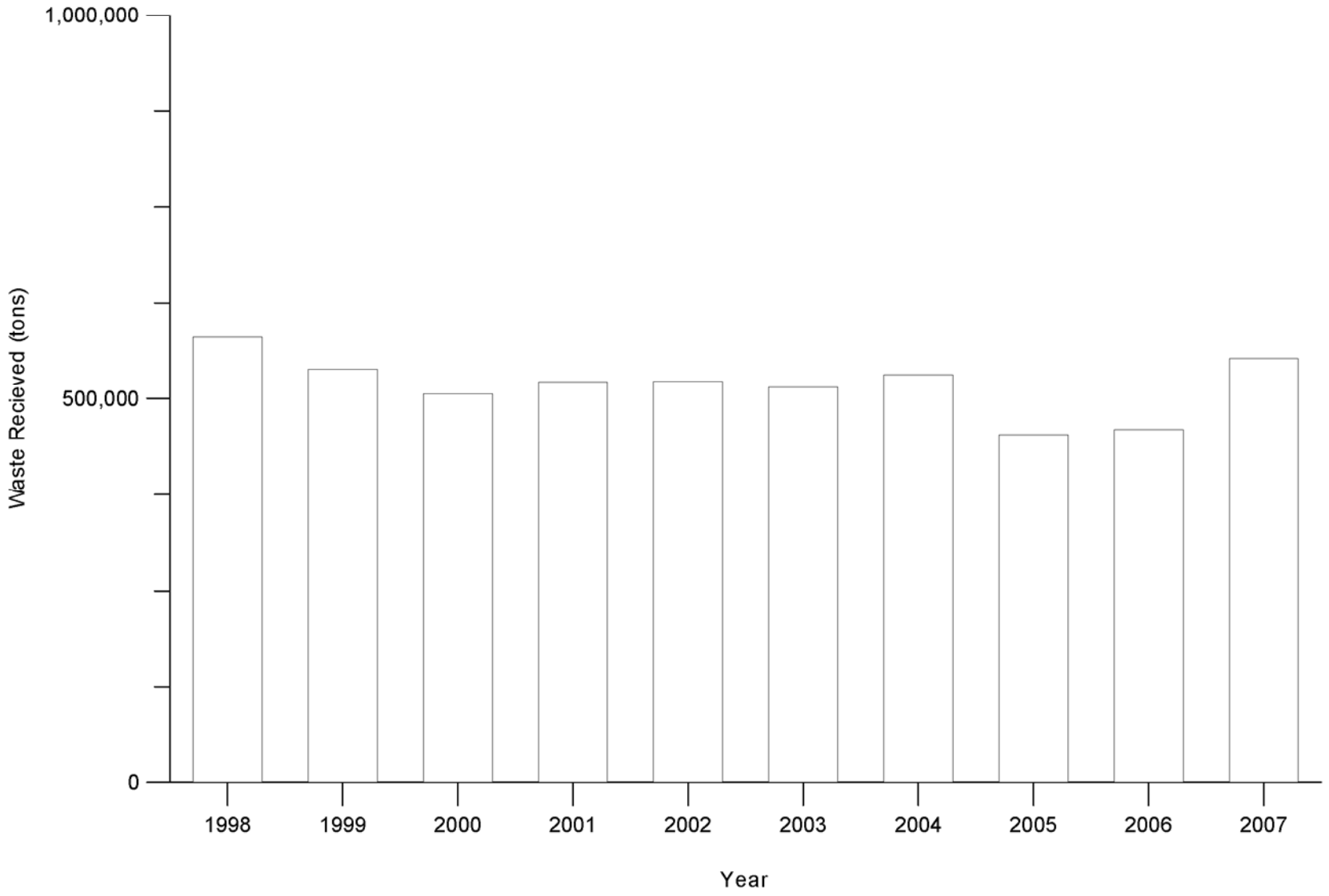


Figure 5
Waste Received
Countryside Landfill



TOPOGRAPHICAL SURVEY
OF
COUNTRYSIDE LANDFILL
EXISTING TOP OF LANDFILL
FILL GRADES TO FINAL COVER

WASTE MANAGEMENT

COUNTRYSIDE LANDFILL
GRAYSLAKE, ILLINOIS

Illinois Route 83

Wisconsin Central Ltd. (Formerly Soo Line Railroad) Railway

Illinois Route 137

ACTIVE LANDFILL AREA

BENCHMARKS:

MONUMENT # 9050
N. 8385.469
E. 1086.233
ELEV.= 802.02
LAT. N 42 19 24.43072
LONG. W 88 01 43.52613
STATE PLANE COORDINATES
N. 2060608.219
E. 1066617.117

MONUMENT # 9051
N. 6721.069
E. 1088.881
ELEV.= 805.83
LAT. N 42 19 07.98991
LONG. W 88 01 43.42222
STATE PLANE COORDINATES
N. 2058943.958
E. 1066630.880

NORTH

Scale: 1" =100'
FILE NO. 96-81
OVERALL-TOPO-06-2008.DWG

STATE OF ILLINOIS
COUNTY OF LAKE S.S.

DATED: JULY 2ND, 2008
PREPARED BY:

ILLINOIS PROFESSIONAL LAND SURVEYOR 35-3616
MY LICENSE EXPIRES 11-30-08
PROFESSIONAL DESIGN FIRM NO. 184-002732

FIELDWORK DATES: JUNE 30 AND JULY 1, 2008
CLIENT NAME: COUNTRYSIDE LANDFILL INCORPORATED
ADDRESS: 31725 N. ILLINOIS ROUTE 83
GRAYSLAKE, ILLINOIS 60030

NOTES:
PLAT IS VOID if the Impressed Surveyors Seal does not appear.
Only those Building Lines or Easements shown on a Recorded Subdivision Plat or from a Recorded Document are shown hereon; check local ordinances before building.
Compare your description and site markings with this plat and AT ONCE report any discrepancies which you may find.

R.E. ALLEN and associates, ltd.
Professional Land Surveyors
31 South Slusser Street, Grayslake, Illinois 60030
+847-223-0914

TAB 5

5. PERMIT COMPLIANCE DATA

Provide the most current facility information (as of January 1st) regarding groundwater, leachate, and gas in maps and graphical or tabular format.

a. Provide location maps identifying all monitoring points for groundwater, leachate and methane gas.

b. Provide potentiometric maps (quarterly or annual) for the uppermost aquifer for calendar years 2006 and 2007.

c. Provide the following groundwater monitoring information for 2006 and 2007:

1. Identify monitoring wells that had four consecutive quarters of increasing or decreasing concentrations, exceeded an applicable groundwater quality standards (AGQS) or maximum allowable predicted concentrations (MAPC's) standard or detection of an organic compound.

2. Identify parameters and results for monitoring wells where confirmation sampling was required.

3. Identify monitoring wells and parameters that are in the process of assessment monitoring or completed assessment monitoring and the status/results of the assessment monitoring.

4. Identify monitoring wells where assessment monitoring for potential groundwater impact is/was required because of the assessment monitoring results.

5. Identify any remedial action that was done or is being taken as a result of the assessment monitoring results.

d. Document leachate management in the existing and expansion areas.

e. Provide monitoring data on leachate levels at all leachate monitoring points. Identify quantities of leachate recirculated and managed off-site.

f. Provide and summarize leachate quality, lab analytical data results for 2006 and 2007. Please highlight and discuss the quality of the leachate and if there are any trends or concerns.

g. Provide current landfill gas collection system showing all pertinent features and description of system and expansions.

h. Summarize all surface emission monitoring, monthly interior well monitoring data, and perimeter probe monitoring, and identify any exceedances (maps/graphical & tabular) for 2006 and 2007.

1. Explain any corrective actions that have been undertaken or will be undertaken to correct air emission exceedances.

i. Document surface water management procedures (description & maps). Provide results and any testing per NPDES or on off-site discharges.

j. Provide current status of the financial assurance plan including all revisions and provide a copy of the most recent financial assurance cost estimate and provide proof of financial assurance.

k. Document actions/steps taken to address/correct the audit recommendations from the last audit completed by CDM (2005/2006 Audit).

l. Document that all siting conditions have and continue to be in compliance.

m. Status of landscaping installations with regard to applicable permits and agreements.

n. Summary of the IEPA and Lake County Health Department Inspection dates, violations, odor complaints, compliance advisories and other corrective actions for calendar years 2006 and 2007.

o. Summary of citizen complaints, the nature of the complaints and how they were responded to.

p. Summarize the overall compliance status of the facility with all required permits currently in effect. Document compliance issues and actions/steps taken to address/resolve these compliance issues.

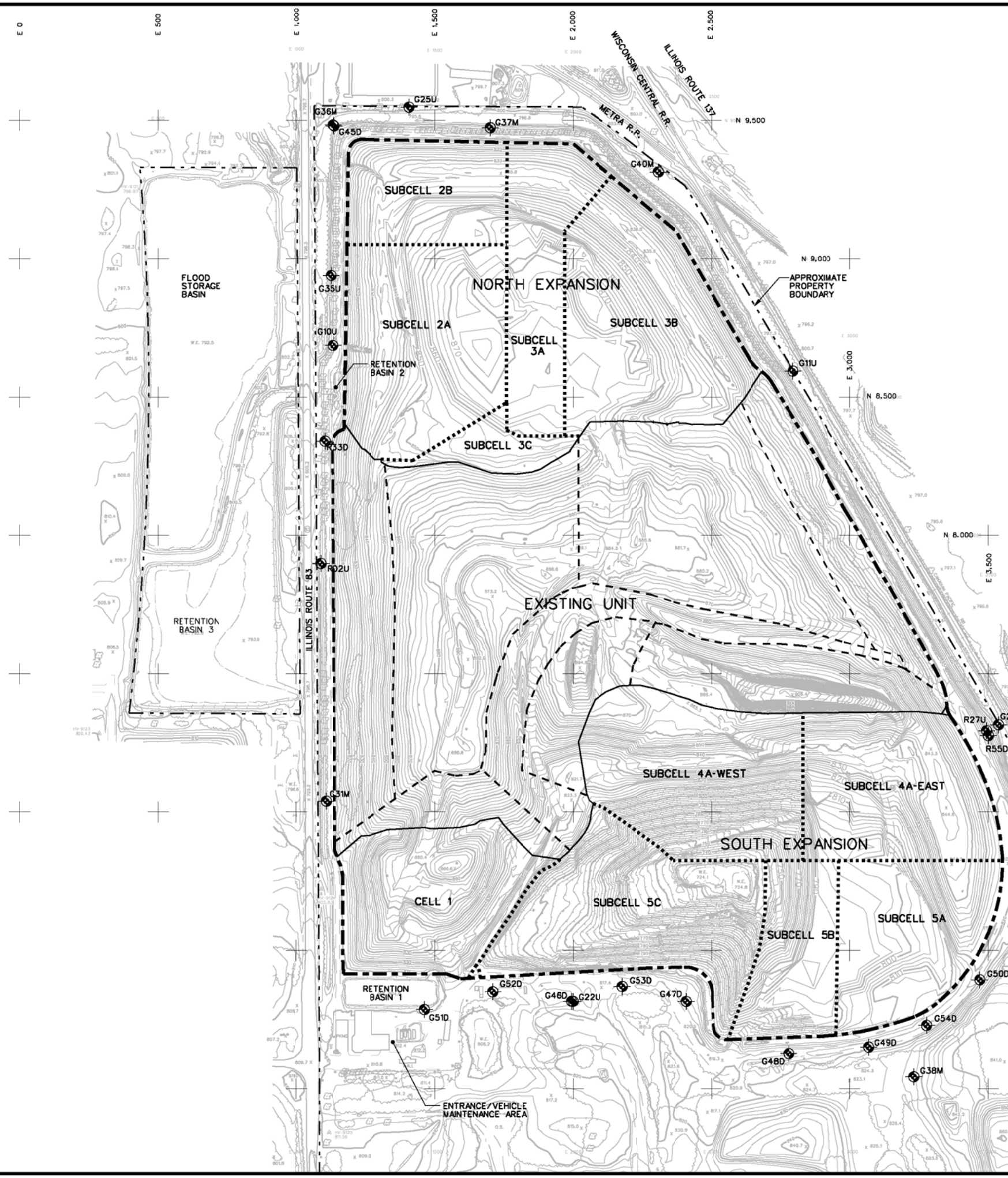
a. Provide location maps identifying all monitoring points for groundwater, leachate and methane gas.

Groundwater Monitoring Program

The permitted groundwater monitoring program required by IEPA Permit No. 1994-479-LF, consists of 25 monitoring wells around the facility, as shown on Figure 6. Of these wells, 12 are screened in the granular uppermost aquifer, six are screened in the fine-grained (clay) unweathered till zone and seven are screened in the fine-grained weathered till zone. The depth of uppermost aquifer wells range from approximately 210 to 150 feet below ground surface; unweathered till wells range in depth from approximately 70 to 120 feet below ground surface; and weathered till wells range in depth from approximately 17 to 53 feet below ground surface. The groundwater monitoring well network is summarized in Table 10.

Table 10
Groundwater Monitoring Well Network Summary
Countryside Landfill

Monitoring Zone	Well ID	Location
Weathered Till	R02U	Downgradient
	G10U	Downgradient
	G11U	Downgradient
	G22U	Upgradient
	G25U	Upgradient
	R27U	Upgradient
	G35U	Downgradient
Unweathered Till	G28M	Downgradient
	G31M	Downgradient
	G36M	Downgradient
	G37M	Downgradient
	G38M	Upgradient
	G40M	Downgradient
Uppermost Aquifer	R33D	Upgradient
	G45D	Upgradient
	G46D	Downgradient
	G47D	Downgradient
	G48D	Downgradient
	G49D	Downgradient
	G50D	Downgradient
	G51D	Downgradient
	G52D	Downgradient
	G53D	Downgradient
	G54D	Downgradient
	R55D	Downgradient



LEGEND:

- EXISTING TOPOGRAPHY
- APPROXIMATE PROPERTY BOUNDARY
- PERMITTED WASTE DISPOSAL LIMITS
- G11U — IEPA GROUNDWATER MONITORING WELL

NOTES:

1. TOPOGRAPHY BASED ON JULY 29, 2007 TOPOGRAPHIC MAP PREPARED BY AEROMETIRC ENGINEERING. ACTIVE AREAS WERE UPDATED BY GROUND SURVEY PERFORMED BY WEAVER BOOS, OCTOBER 3, 2007 AND JANUARY 3, 2008.

2. MONITORING WELL DESIGNATIONS:
   "D" DESIGNATION - UPPERMOST AQUIFER WELL
   "M" DESIGNATION - UNWEATHERED TILL WELL
   "U" DESIGNATION - WEATHERED TILL WELL

N

SCALE 0' 200' 400'

FIGURE 6

GROUNDWATER MONITORING WELL LOCATIONS

COUNTRYSIDE LANDFILL
LAKE COUNTY, ILLINOIS

AUGUST 2008

Groundwater monitoring parameters are described in two lists of parameters, identified in Permit No. 1994-479-LF as List G1 and List G2. List G1 consists of 14 inorganic indicator parameters, monitored on a quarterly basis for each monitoring well. List G2 consists of 159 inorganic and organic compounds, monitored on an annual basis for each monitoring well. Based upon this program, a total of 5,375 groundwater analyses are performed per year in 2006 and 2007.

Leachate Monitoring Program

The currently permitted leachate monitoring program described in Permit No. 1994-479-LF, consists of ten monitoring locations as shown on Figure 7. Points L101 and L102 are associated with the leachate collection sumps in the north expansion and are used for leachate quality monitoring and head level measurements. Points L103 and L104 are associated with existing unit lift stations and are used for leachate quality monitoring. Points L105 and L106 are associated with the leachate collection sumps in the south expansion and are used for leachate quality monitoring and head level measurements. L118 is associated with leachate storage tanks and is used for leachate quality monitoring. L111, R112 and L113 are used for head level measurements only for the north expansion area, existing unit and south expansion area, respectively.

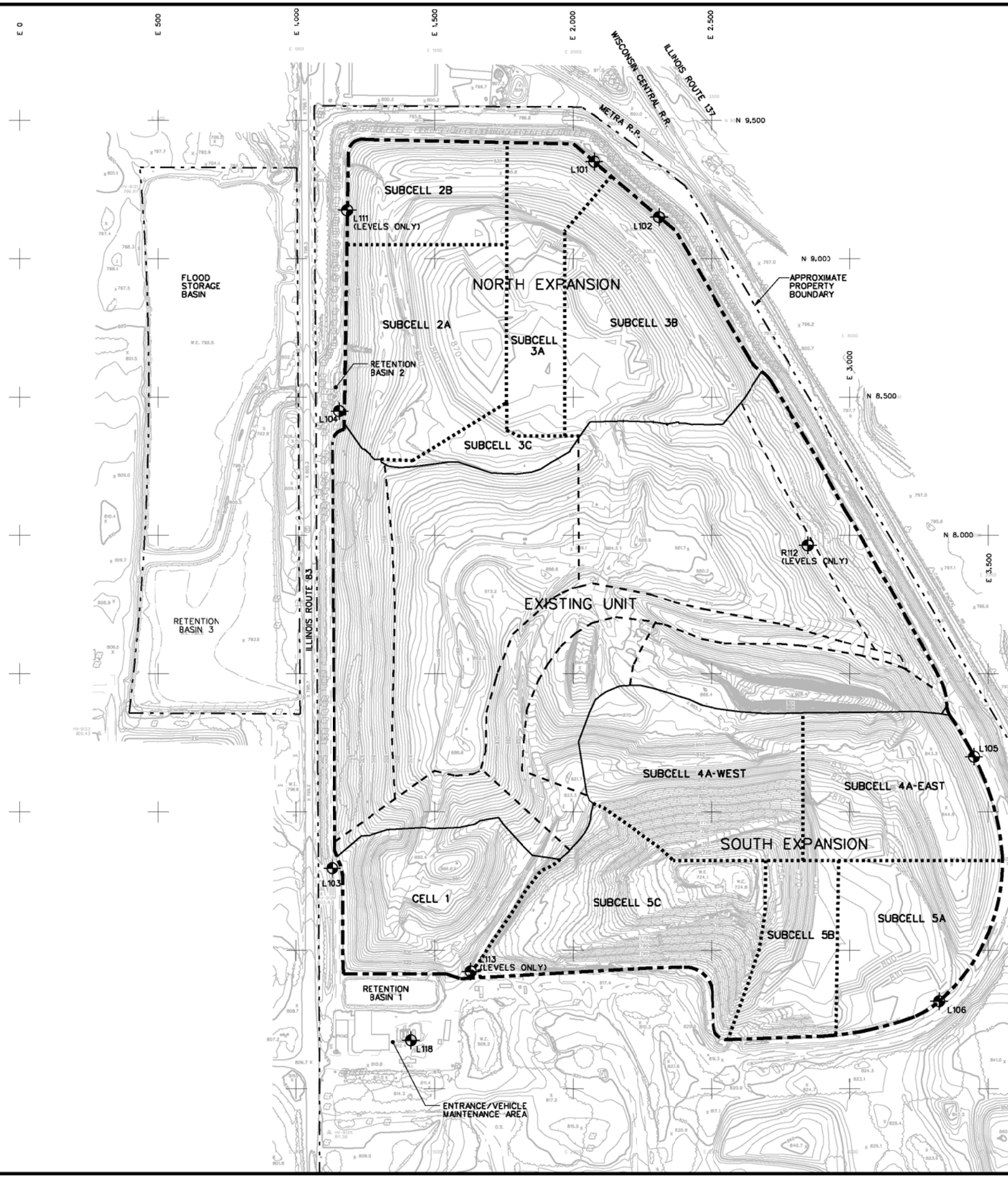
Leachate monitoring parameters are described in three lists of parameters, identified in Permit No. 1994-479-LF as List L1, List L2 and List L3. List L1 consists of 27 inorganic parameters, monitored on a semi-annual basis for L101, L102, L103, L104 and L118 and a quarterly basis for L105 and L106. List L2 consists of 206 inorganic and organic parameters, monitored on an annual basis for L101, L102, L103, L104, L105, L106 and L118. List 3 consists 43 of TCLP parameters, monitored on an annual basis for L118.

Landfill Gas Monitoring Program

Landfill gas monitoring at the facility is performed under two different regulatory programs: (1) Bureau of Land monitoring specified by Permit No. 1994-479-LF and (2) Bureau of Air monitoring specified by Permit No. 97040110.

Bureau of Land monitoring includes monthly monitoring of perimeter gas probes, ambient air and onsite buildings. Parameters monitored include methane, pressure carbon dioxide and oxygen. The facility currently has 24 perimeter gas probes as shown on Figure 8.

Bureau of Air monitoring includes monthly monitoring of landfill gas extraction wells and quarterly landfill surface emission monitoring. Monthly landfill gas extraction well monitoring parameters include pressure, temperature and oxygen concentration. Currently, there are 86 landfill gas extraction wells installed at the facility, as shown on Figure 8. Landfill surface emission monitoring includes methane concentration.



LEGEND:

- EXISTING TOPOGRAPHY
- APPROXIMATE PROPERTY BOUNDARY
- PERMITTED WASTE DISPOSAL LIMITS
- L101 LEACHATE MONITORING POINTS

NOTES:

1. TOPOGRAPHY BASED ON JULY 29, 2007 TOPOGRAPHIC MAP PREPARED BY AEROMETIRC ENGINEERING. ACTIVE AREAS WERE UPDATED BY GROUND SURVEY PERFORMED BY WEAVER BOOS, OCTOBER 3, 2007 AND JANUARY 3, 2008.

N

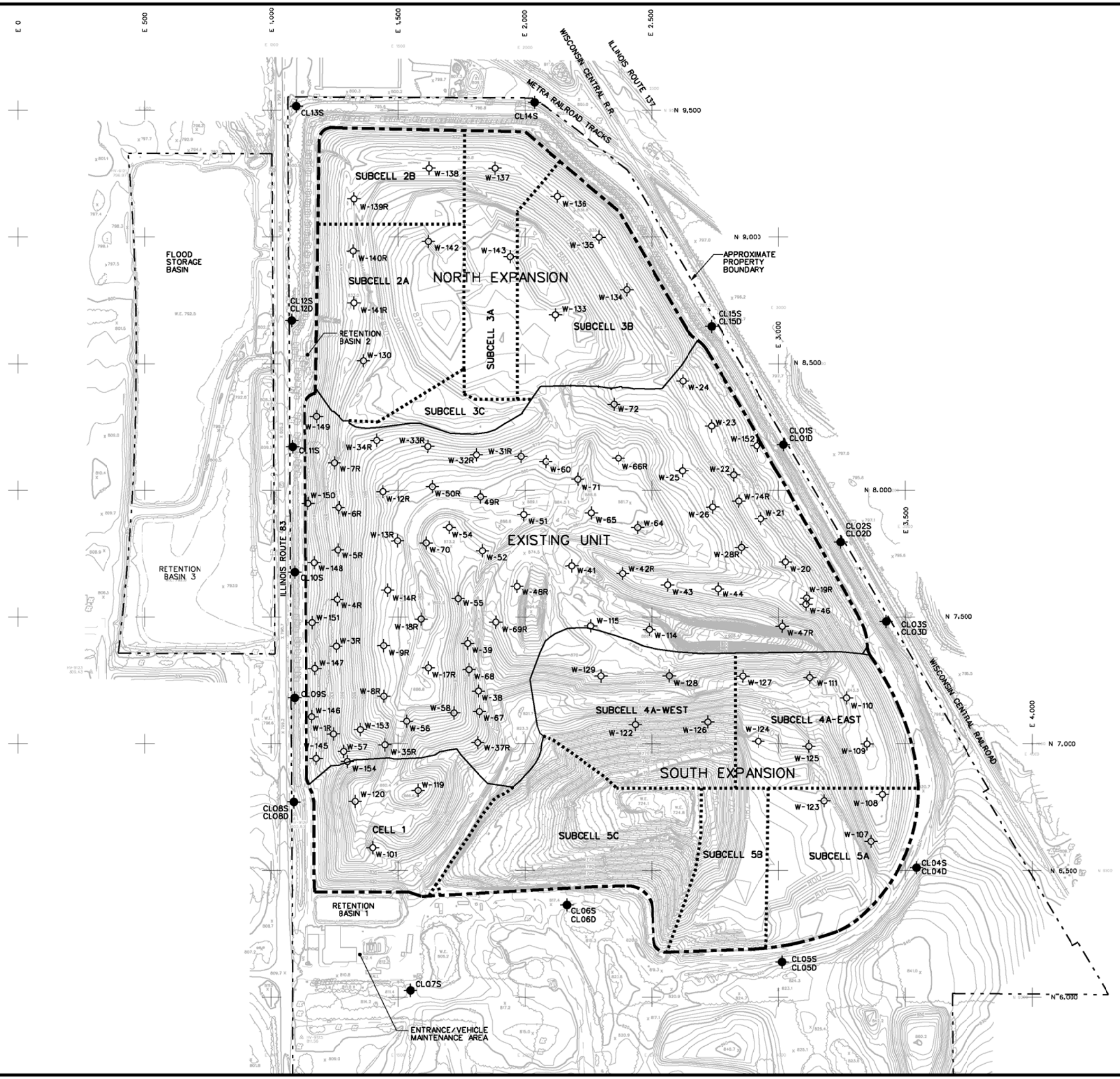
SCALE 0' 200' 400'

FIGURE 7

LEACHATE MONITORING POINTS

COUNTRYSIDE LANDFILL
LAKE COUNTY, ILLINOIS

AUGUST 2008



LEGEND:

- EXISTING TOPOGRAPHY
- APPROXIMATE PROPERTY BOUNDARY
- PERMITTED WASTE DISPOSAL LIMITS
- CL10S — GAS MONITORING PROBE
- W-1R — GAS EXTRACTION WELL

NOTES:

1. TOPOGRAPHY BASED ON JULY 29, 2007 TOPOGRAPHIC MAP PREPARED BY AEROMETIRC ENGINEERING. ACTIVE AREAS WERE UPDATED BY GROUND SURVEY PERFORMED BY WEAVER BOOS, OCTOBER 3, 2007 AND JANUARY 3, 2008.

N

SCALE 0' 200' 400'

FIGURE 8

LANDFILL GAS MONITORING POINTS

COUNTRYSIDE LANDFILL
LAKE COUNTY, ILLINOIS

AUGUST 2008

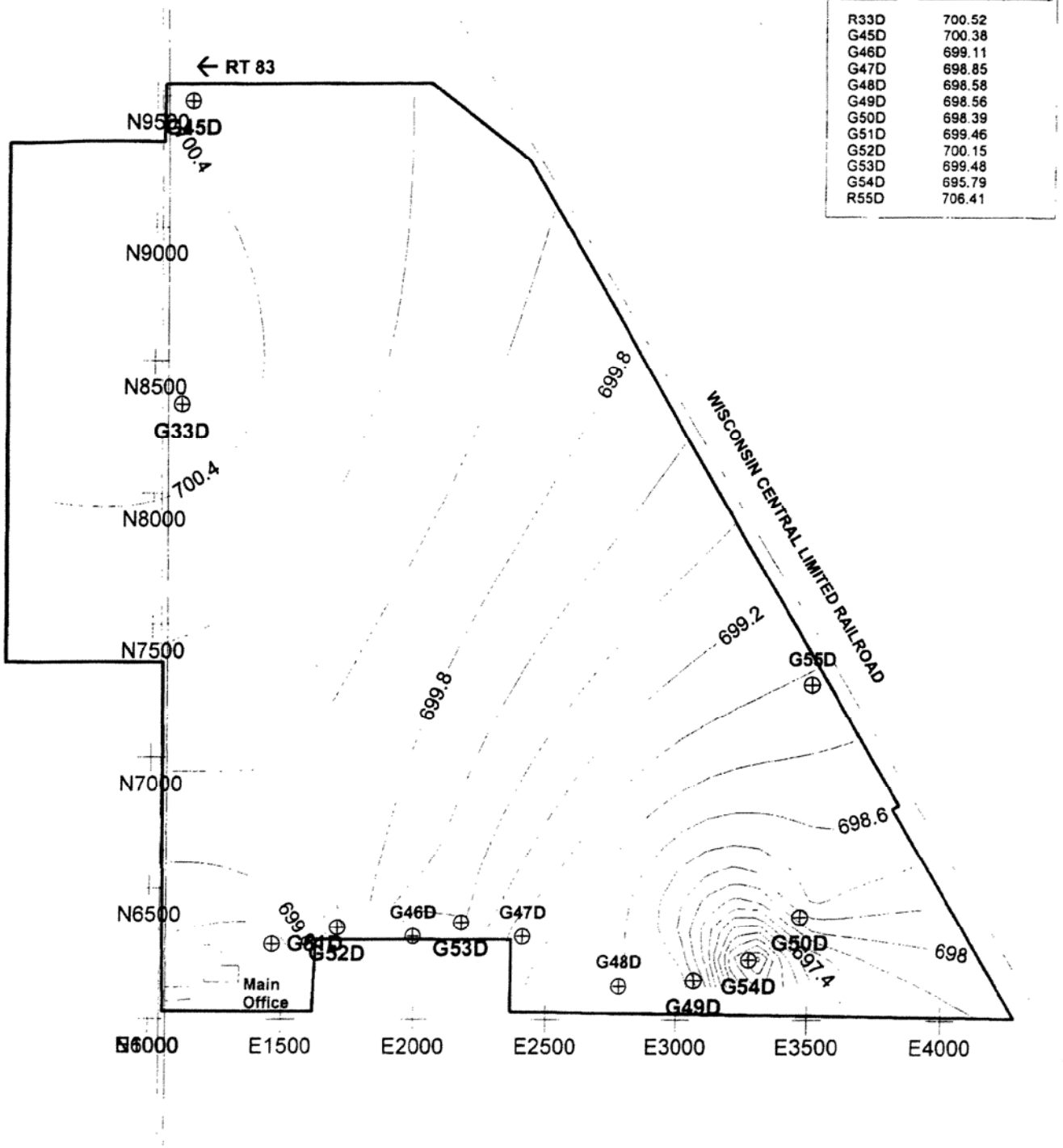
b. Provide potentiometric maps (quarterly or annual) for the uppermost aquifer for calendar years 2006 and 2007.

Response: Quarterly potentiometric maps of the upper most aquifer for the 1st Quarter 2006, 2nd Quarter 2006, 3rd Quarter 2006, 4th Quarter 2006, 1st Quarter 2007, 2nd Quarter 2007, 3rd Quarter 2007 and 4th Quarter 2007 are attached.

Waste Management- Countryside Landfill
Potentiometric Surface Map of the Uppermost Aquifer
1st Quarter- 2006

NORTH

Well ID	GW Elev. (ft/msl)
R33D	700.52
G45D	700.38
G46D	699.11
G47D	698.85
G48D	698.58
G49D	698.56
G50D	698.39
G51D	699.46
G52D	700.15
G53D	699.48
G54D	695.79
R55D	706.41



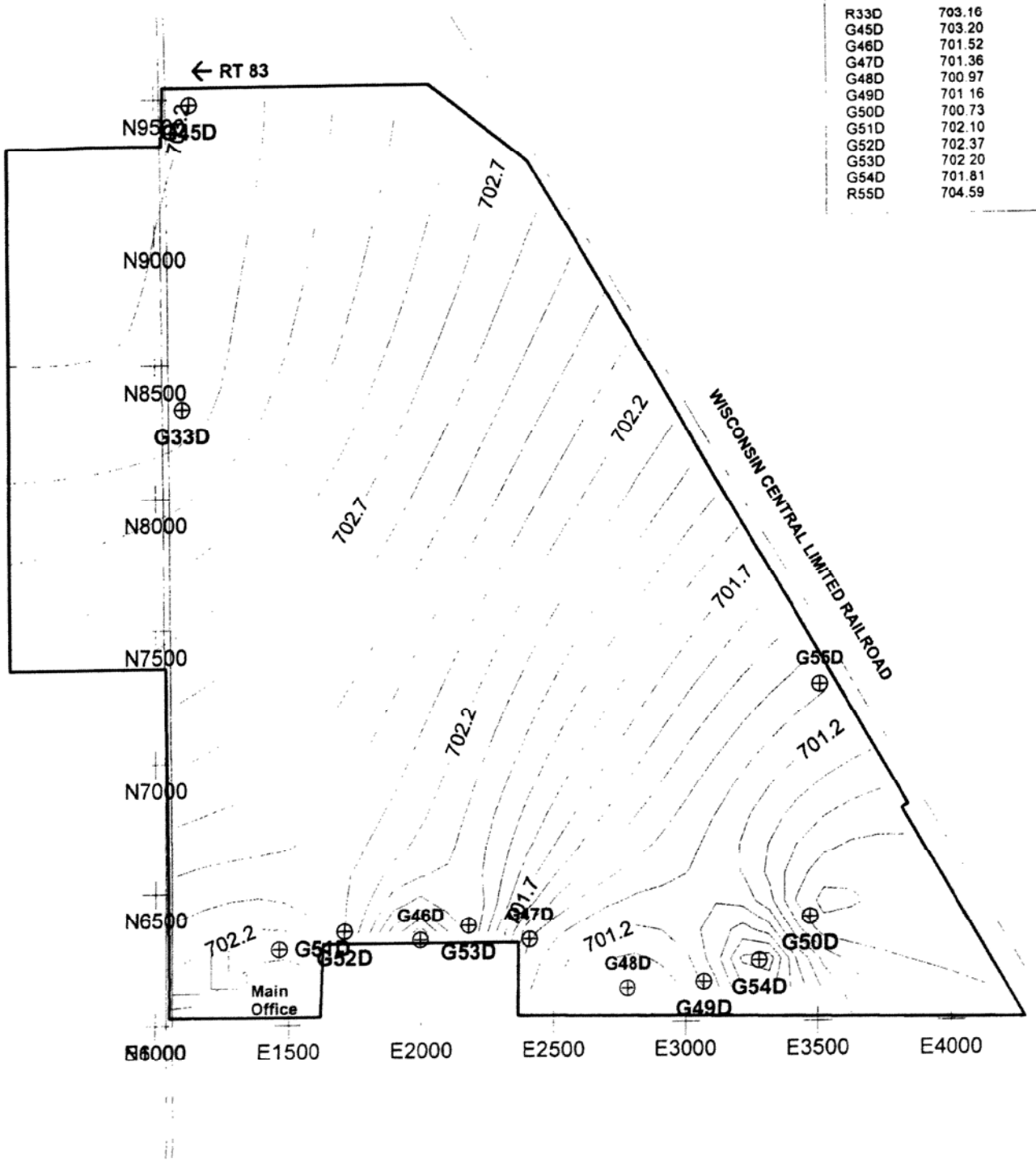
Contours are based on groundwater elevations for the depicted monitoring wells.
EMT IN NO WAY guarantees the accuracy of the illustrated flow.

0 200 400 600 800
SCALE

Waste Management- Countryside Landfill
Potentiometric Surface Map of the Uppermost Aquifer
2nd Quarter- 2006

NORTH

Well ID	GW Elev. (ft/msl)
R33D	703.16
G45D	703.20
G46D	701.52
G47D	701.36
G48D	700.97
G49D	701.16
G50D	700.73
G51D	702.10
G52D	702.37
G53D	702.20
G54D	701.81
R55D	704.59



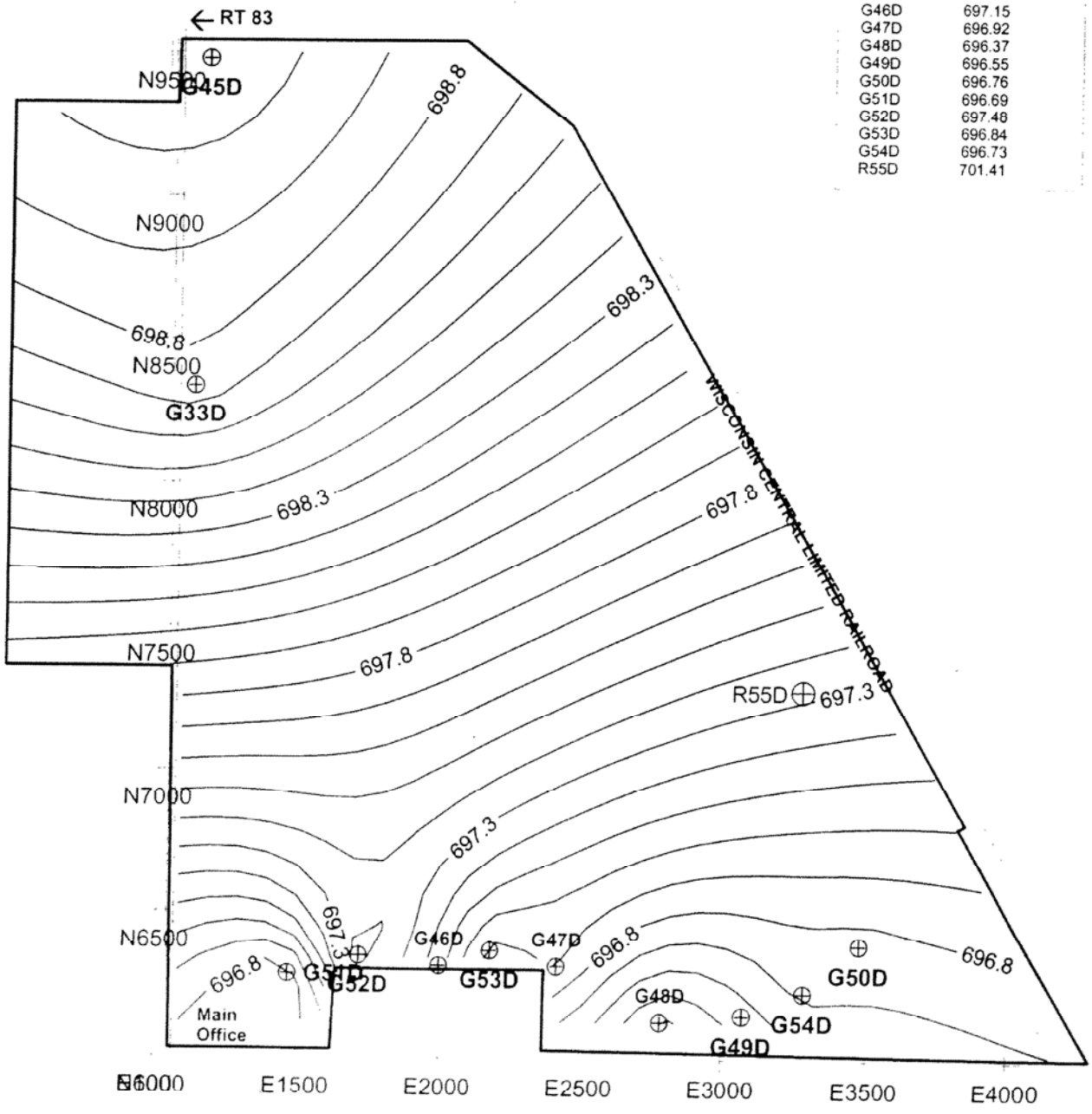
Contours are based on groundwater elevations for the depicted monitoring wells.
EMT IN NO WAY guarantees the accuracy of the illustrated flow.

0 200 400 600 800
SCALE

Waste Management- Countryside Landfill
Potentiometric Surface Map of the Uppermost Aquifer
3rd Quarter- 2006

NORTH

Well ID	GW Elev. (ft/msl)
R33D	698.76
G45D	699.09
G46D	697.15
G47D	696.92
G48D	696.37
G49D	696.55
G50D	696.76
G51D	696.69
G52D	697.48
G53D	696.84
G54D	696.73
R55D	701.41



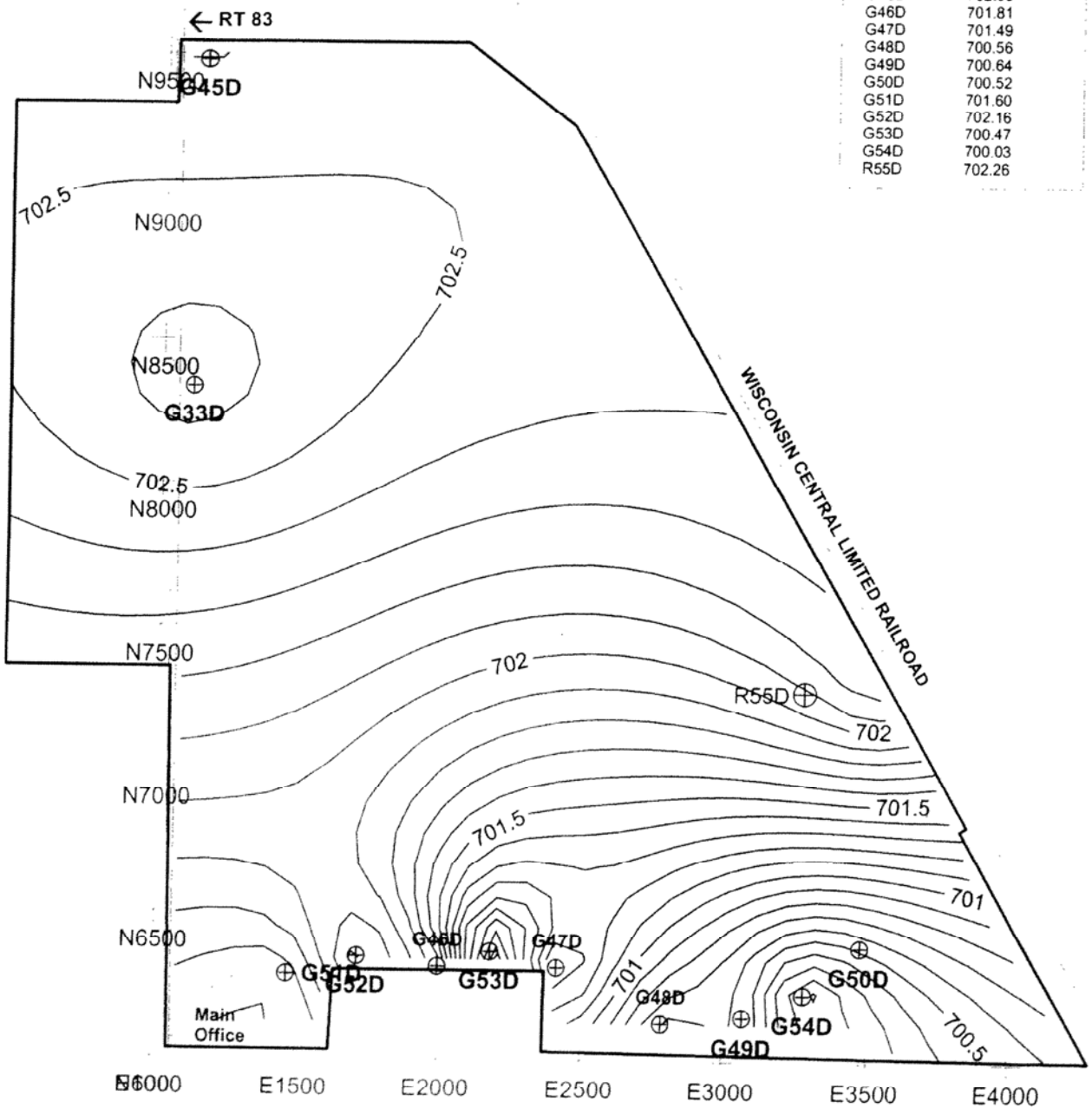
Contours are based on groundwater elevations for the depicted monitoring wells.
EMT IN NO WAY guarantees the accuracy of the illustrated flow.

0 200 400 600 800
SCALE

Waste Management- Countryside Landfill
Potentiometric Surface Map of the Uppermost Aquifer
4th Quarter- 2006

NORTH

Well ID	GW Elev. (ft/msl)
R33D	702.66
G45D	702.39
G46D	701.81
G47D	701.49
G48D	700.56
G49D	700.64
G50D	700.52
G51D	701.60
G52D	702.16
G53D	700.47
G54D	700.03
R55D	702.26



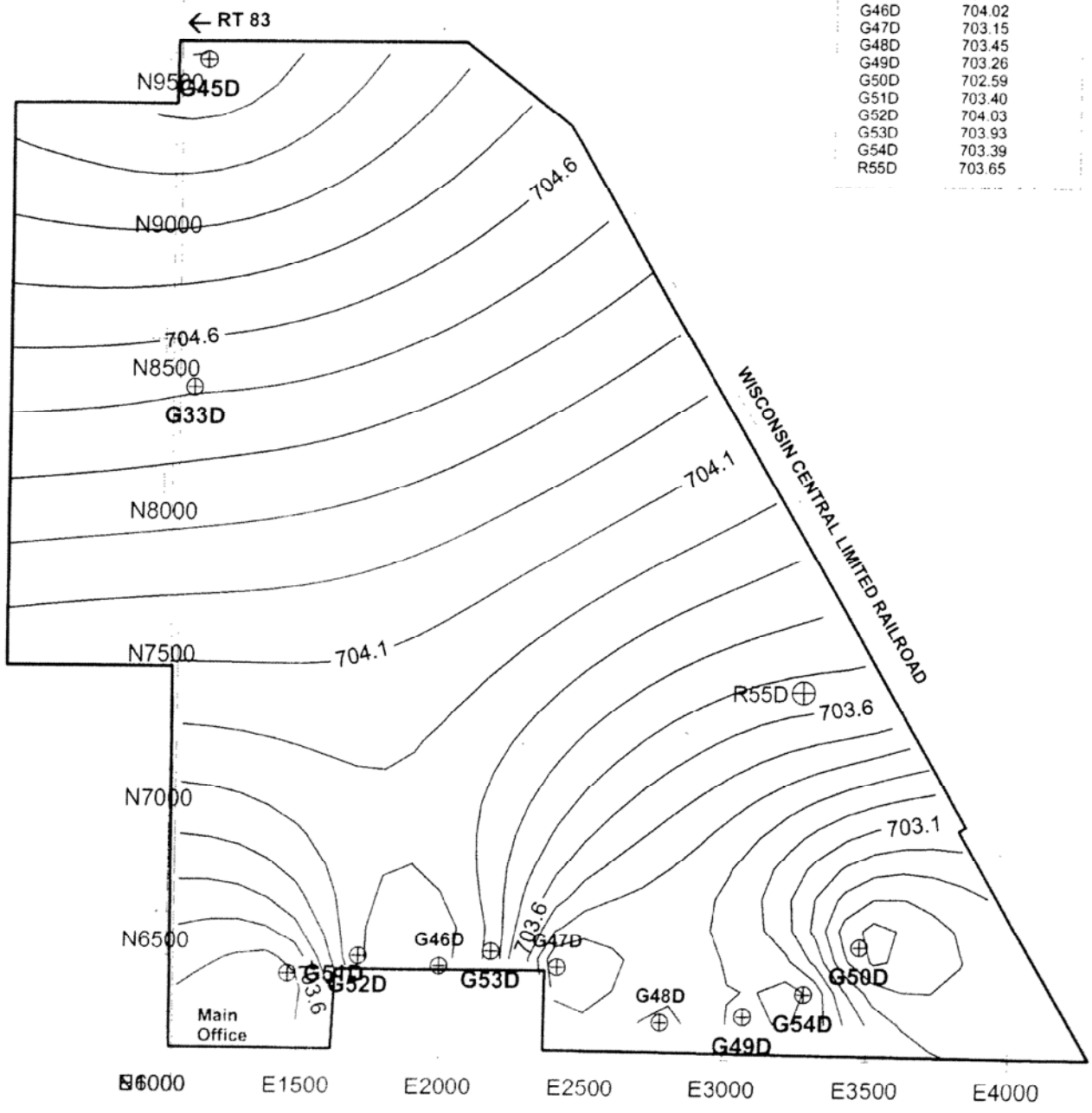
Contours are based on groundwater elevations for the depicted monitoring wells.
EMT IN NO WAY guarantees the accuracy of the illustrated flow.

0 200 400 600 800
SCALE

Waste Management- Countryside Landfill
Potentiometric Surface Map of the Uppermost Aquifer
1st Quarter- 2007

NORTH

Well ID	GW Elev. (ft/msl)
R33D	704.51
G45D	705.11
G46D	704.02
G47D	703.15
G48D	703.45
G49D	703.26
G50D	702.59
G51D	703.40
G52D	704.03
G53D	703.93
G54D	703.39
R55D	703.65



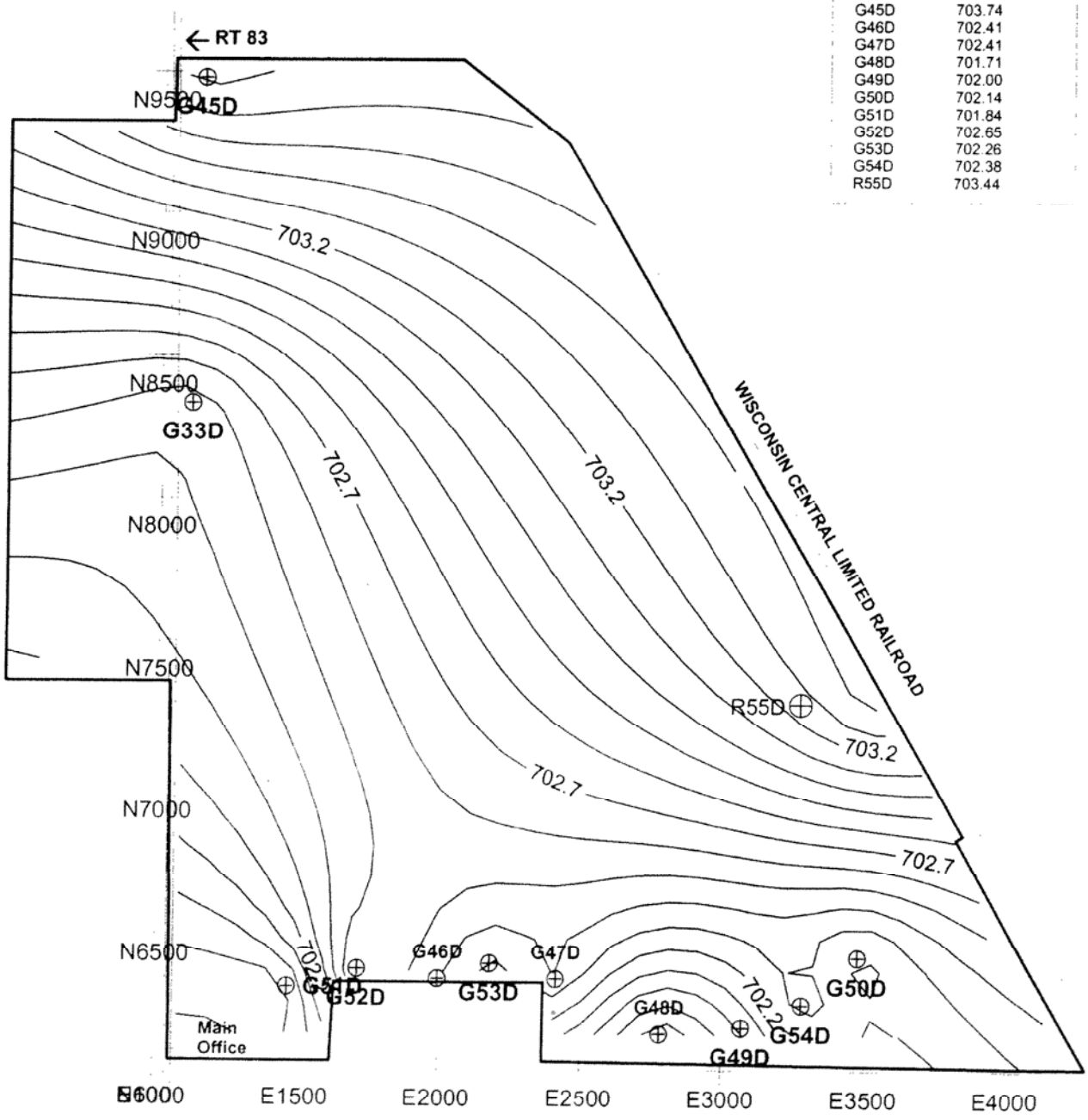
Contours are based on groundwater elevations for the depicted monitoring wells.
EMT IN NO WAY guarantees the accuracy of the illustrated flow.

0 200 400 600 800
SCALE

Waste Management- Countryside Landfill
Potentiometric Surface Map of the Uppermost Aquifer
2nd Quarter- 2007

NORTH

Well ID	GW Elev. (ft/msl)
R33D	702.43
G45D	703.74
G46D	702.41
G47D	702.41
G48D	701.71
G49D	702.00
G50D	702.14
G51D	701.84
G52D	702.65
G53D	702.26
G54D	702.38
R55D	703.44



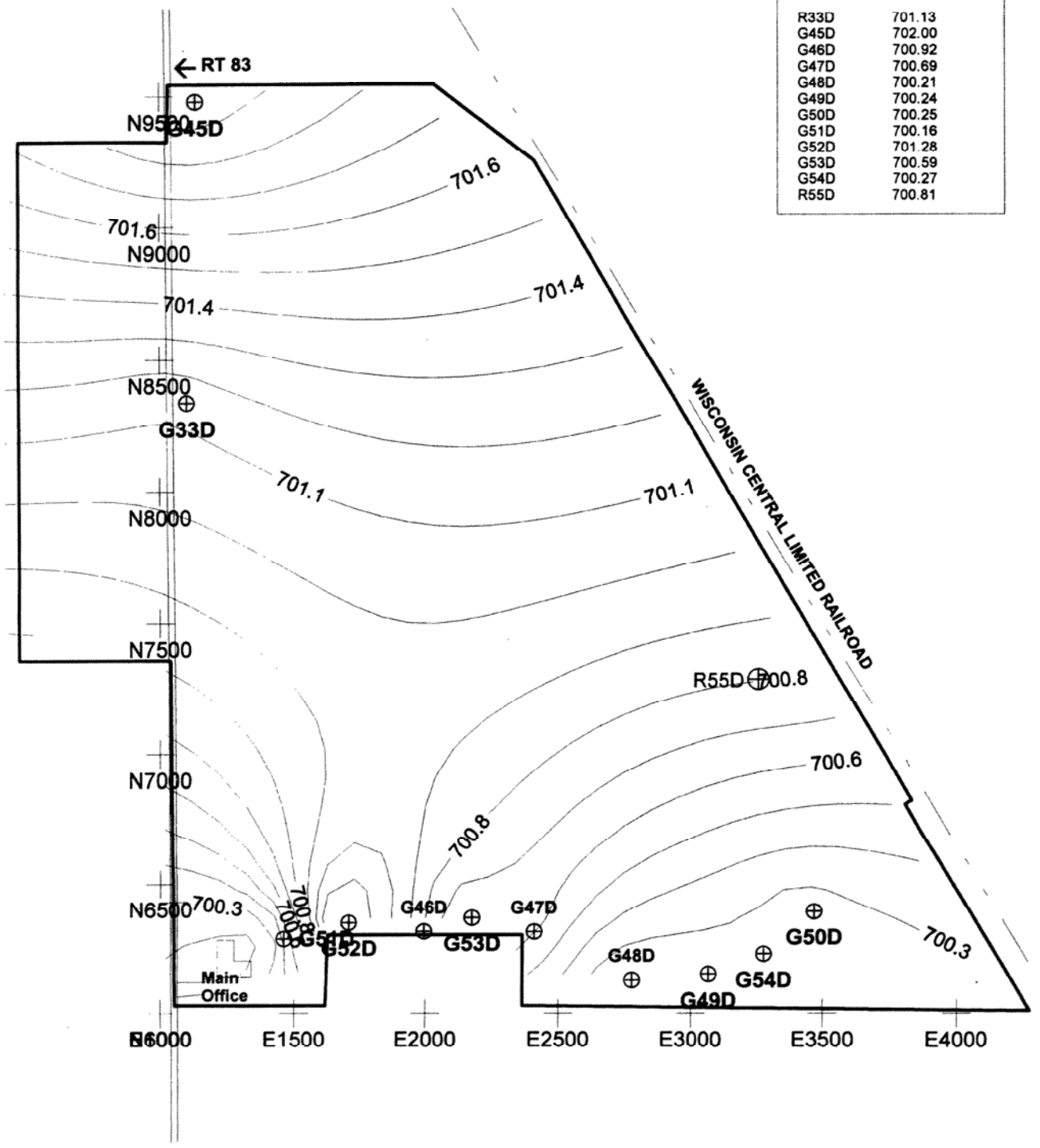
Contours are based on groundwater elevations for the depicted monitoring wells.
EMT IN NO WAY guarantees the accuracy of the illustrated flow.

0 200 400 600 800
SCALE

Waste Management- Countryside Landfill
Potentiometric Surface Map of the Uppermost Aquifer
3rd Quarter- 2007

NORTH

Well ID	GW Elev. (ft/msl)
R33D	701.13
G45D	702.00
G46D	700.92
G47D	700.69
G48D	700.21
G49D	700.24
G50D	700.25
G51D	700.16
G52D	701.28
G53D	700.59
G54D	700.27
R55D	700.81



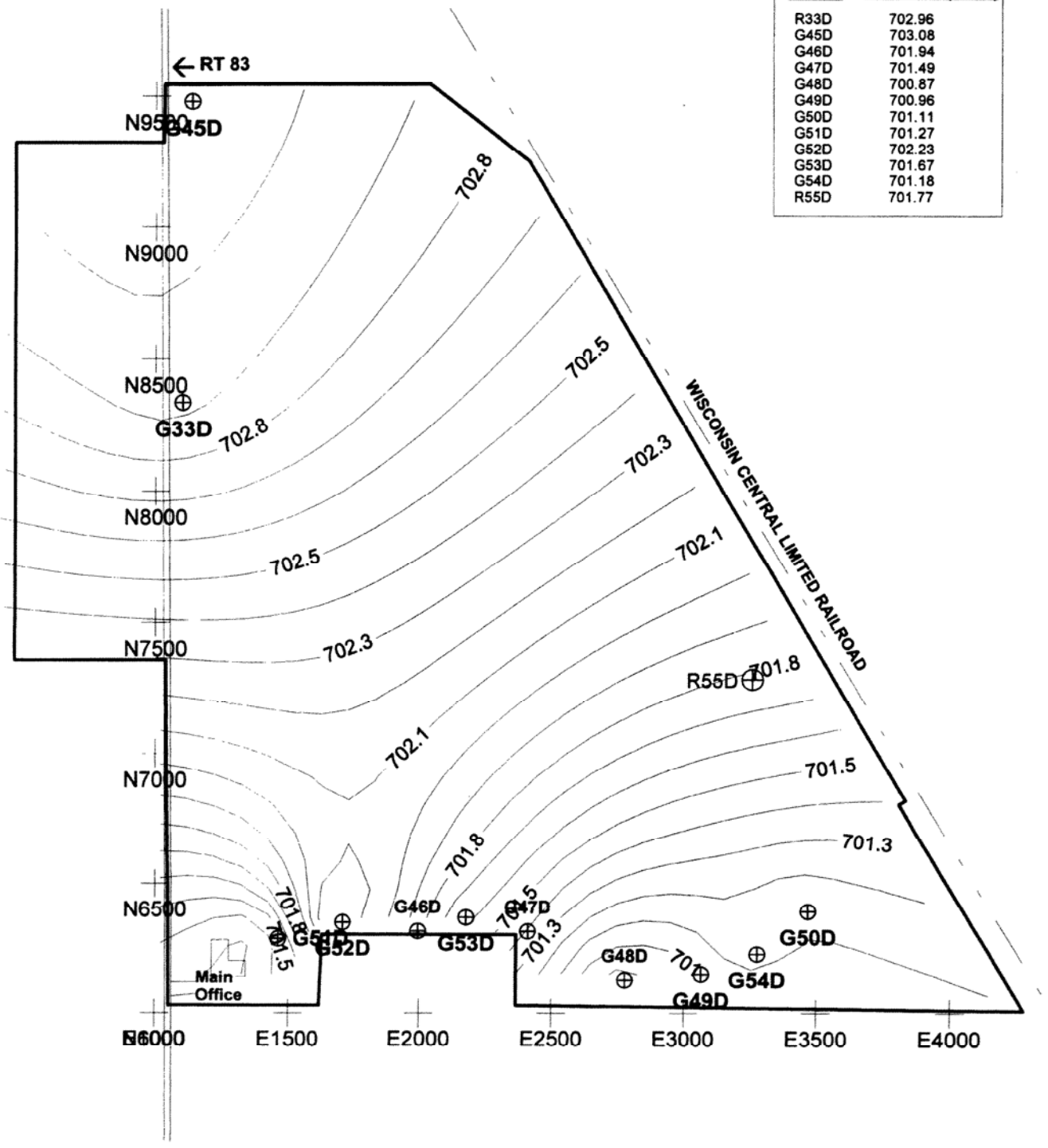
Contours are based on groundwater elevations for the depicted monitoring wells.
EMT IN NO WAY guarantees the accuracy of the illustrated flow.

0 200 400 600 800
SCALE

Waste Management- Countryside Landfill
Potentiometric Surface Map of the Uppermost Aquifer
4th Quarter- 2007

NORTH

Well ID	GW Elev. (ft/msl)
R33D	702.96
G45D	703.08
G46D	701.94
G47D	701.49
G48D	700.87
G49D	700.96
G50D	701.11
G51D	701.27
G52D	702.23
G53D	701.67
G54D	701.18
R55D	701.77



Contours are based on groundwater elevations for the depicted monitoring wells.
EMT IN NO WAY guarantees the accuracy of the illustrated flow.

0 200 400 600 800
SCALE

c. Provide the following groundwater monitoring information for 2006 and 2007:

1. Identify monitoring wells that had four consecutive quarters of increasing or decreasing concentrations, exceeded an applicable groundwater quality standards (AGQS) or maximum allowable predicted concentrations (MAPC's) standard or detection of an organic compound.

Response: Tables 11, 12 and 13 summarize the observed increases that occurred during 2006 and 2007, for weathered till wells, unweathered till wells and uppermost aquifer wells. Pursuant to Permit No. 1994-479-LF, an observed increase is defined as one of the following: (1) four consecutive increases of constituent concentration; (2) exceedance of an applicable groundwater standard ("AGQS"); (3) exceedance of a maximum allowable predicted concentration; or (4) detection of an organic compound.

Table 14 summarizes wells that had four consecutive decreasing constituent concentrations during 2006 and 2007. Four consecutive decreasing constituent concentrations is not an observed increase pursuant to Permit No. 1994-479-LF.

2. Identify parameters and results for monitoring wells where confirmation sampling was required.

Response: Confirmation sampling performed in 2006 and 2007 for weathered till wells, unweathered till wells and uppermost aquifer wells is summarized in Tables 15, 16 and 17, respectively. The disposition of each confirmation sampling event is also provided in each table.

3. Identify monitoring wells and parameters that are in the process of assessment monitoring or completed assessment monitoring and the status/results of the assessment monitoring.

Response: Assessment monitoring was performed for well R55D for dissolved ammonia. A groundwater assessment monitoring report was submitted to IEPA on February 17, 2007. The groundwater assessment report and return to detection monitoring approved by Modification No. 76.

4. Identify monitoring wells where assessment monitoring for potential groundwater impact is/was required because of the assessment monitoring results.

Response: None during 2006 and 2007.

5. Identify any remedial action that was done or is being taken as a result of the assessment monitoring results.

Response: None during 2006 and 2007.

Table 11
Summary of 2006 & 2007 Observed Increases – Weathered Till Wells
Countryside Landfill

Well ID	1st Qtr 2006	2nd Qtr 2006	3rd Qtr 2006	4th Qtr 2006	1st Qtr 2007	2nd Qtr 2007	3rd Qtr 2007	4th Qtr 2007
R02U		Nickel (t)		TDS[1]		Nickel (t)		
G10U	Phenol							
G11U	Ammonia (d)	Iron (t) TOC			Nitrate (d)			
G22U	Chloride (d)[1]							TDS[1]
G25U								
R27U		Arsenic (t)	Arsenic (d)	Arsenic (d)		Arsenic (d) Arsenic (t) Iron (t) Phosphorus (t)	Arsenic (d)	Arsenic (d)
G35U		TOC						

Notes:

1. Four consecutive increases.

Table 12
Summary of 2006 & 2007 Observed Increases – Unweathered Till Wells
Countryside Landfill

Well ID	1st Qtr 2006	2nd Qtr 2006	3rd Qtr 2006	4th Qtr 2006	1st Qtr 2007	2nd Qtr 2007	3rd Qtr 2007	4th Qtr 2007
R28M	Arsenic (d)[1] Iron (d)[1] Manganese (d)[1] Zinc (d)[1]	Chloride (d)[2]				Arsenic (d)	Arsenic (d)	Arsenic (d)
G31M								
G36M		Chloride (d)[2] Bis (2-ethylhexyl) phthalate				Chloride (d)[2] Bis (2-ethylhexyl) phthalate		
G37M						Nitrate (t)		
G38M		Sodium (t)	Iron (d)					
G40M								

Notes:

1. Observed increases associated with well G28M which was subsequently replaced by well R28M in May 2006.
2. Four consecutive increases.

Table 13
Summary of 2006 & 2007 Observed Increases – Uppermost Aquifer Wells
Countryside Landfill

Well ID	1st Qtr 2006	2nd Qtr 2006	3rd Qtr 2006	4th Qtr 2006	1st Qtr 2007	2nd Qtr 2007	3rd Qtr 2007	4th Qtr 2007
R33D		Iron (d)[1]				Manganese (d)[1] Aluminum (t) Potassium (t)		
G45D			Nitrate (d)	Nitrate (d)				
G46D						Acetone		
G47D						Zinc (t)	Nitrate (d)	Nitrate (d)
G48D	Zinc (d)							
G49D	Sulfate (d)[1]							
G50D			Zinc (d)					
G51D								Boron (d)[1] Nitrate (d)
G52D	Boron (d)	Boron (d) Boron (t) COD				COD		
G53D						Boron (d)[1]		Boron (d) Nitrate (d)
G54D								
R55D	Ammonia (d) Arsenic (d)	Ammonia (d) Aluminum (t) Ammonia (t) Iron (t) Lead (t) Potassium (t) Zinc (t)		Boron (d)[1]	Boron (d)	Boron (d) Aluminum (t) COD Potassium (t)		Boron (d)

Notes:

1. Four consecutive increases.

Table 14
Summary of 2006 & 2007 Four Consecutive Groundwater Decreases
Countryside Landfill

Well ID	Constituent – Units	Period	Sequence
G10U	Chloride (d) – mg/l	1st Qtr 2006 – 1st Qtr 2007	210, 178, 132, 128, 70.1
G27U	Chloride (d) – mg/l	3rd Qtr 2006 – 3rd Qtr 2007	32, 31.4, 26.6, 26.5, 21.6
	TDS – mg/l	4th Qtr 2006 – 4th Qtr 2007	881, 810, 774, 758, 679
G46D	Iron (d) – ug/l	3rd Qtr 2006 – 4th Qtr 2006	280, 250, 220, 190, 100
G48D	Manganese (d) – ug/l	4th Qtr 2006 – 4th Qtr 2007	85, 74, 66. 63, 57
G53D	Chloride (d) – mg/l	1st Qtr 2006 – 1st Qtr 2007	6.2, 5.6, 4.9, 4.7, 3.9
R55D	Chloride (d) – mg/l	1st Qtr 2006 – 1st Qtr 2007	181, 78.2, 41.4, 27.3, 6.7

Table 15
Summary of 2006 & 2007 Confirmation Sampling Results – Weathered Till Wells
Countryside Landfill

Well ID	Sampling Event	Parameter	Sampling Result	Resampling Results	AGQS/MAPC	Status
R02U	2nd Qtr 2006	Nickel (t) (ug/l)	340	270	178	Continued detection monitoring approved by Modification No. 76.
	4th Qtr 2006	TDS (mg/l)	730, 768, 800, 930, 942	828	2,063	Not confirmed.
	2nd Qtr 2007	Nickel (t) (ug/l)	800	270	178	Continued detection monitoring approved by Modification No. 80.
G10U	1st Qtr 2007	Phenol (ug/l)	61	<5	10	Not confirmed.
G11U	1st Qtr 2006	Ammonia (d)	30.8	np	47.3	Intrawell AGQS/MAPC approved by Modification No. 73.
	2nd Qtr 2006	Iron (t) (mg/l)	7.8	np	63.0	Intrawell AGQS/MAPC approved by Modification No. 73.
	2nd Qtr 2006	TOC (mg/l)	9.5	np	21.3	Intrawell AGQS/MAPC approved by Modification No. 73.
	1st Qtr 2007	Nitrate (d) mg/l)	12.9	<0.050	4.97	Not confirmed.
G22U	1st Qtr 2006	Chloride(d) (mg/l)	12.3, 12.7, 13.7. 34.2, 60.8	48.1	633	Continued detection monitoring approved by Modification No. 75.
	4th Qtr 2007	TDS (mg/l)	481, 557, 604, 646, 684	682	1,548	Confirmed increase evaluation pending.
R27U	2nd Qtr 2006	Arsenic (t) (ug/l)	23	17	19.5	Not confirmed.
	3rd Qtr 2006	Arsenic (d) (ug/l)	24	26	19	Alternate source demonstration approved by Modification No. 77.
	4th Qtr 2006	Arsenic (d) (ug/l)	23	18	19	Not confirmed.
	2nd Qtr 2007	Arsenic (d) (ug/l)	23	28	19	Continued detection monitoring approved by Modification No. 80.
		Arsenic (t) (ug/l)	35	28	19.5	Continued detection monitoring approved by Modification No. 80.
		Iron (t) (mg/l)	7.0	3.0	5.406	Not confirmed.
		Phosphorous (t) (mg/l)	4.0	3.9	0.5	Continued detection monitoring approved by Modification No. 80.
	3rd Qtr 2007	Arsenic (d) (ug/l)	34	18	19	Not confirmed.
	4th Qtr 2007	Arsenic (d) (ug/l)	86	39	19	Confirmed increase evaluation pending.
G35U	2nd Qtr 2006	TOC (mg/l)	5.6	5.4	4.46	Continued detection monitoring approved by Modification No. 76.

Table 16
Summary of 2006 & 2007 Confirmation Sampling Results – Unweathered Till Wells
Countryside Landfill

Well ID	Sampling Event	Parameter	Sampling Result	Confirmation Results	AGQS/MAPC	Status
G28M	1st Qtr 2006	Arsenic (d) (ug/l)	14	18	12	Alternate source demonstration approved by Modification No. 72; approved replacement of well G28M.
		Iron (d) (ug/l)	470	2,700	276	(as above)
		Manganese (d) (ug/l)	380	350	155	(as above)
		Zinc (d) (ug/l)	700	1,000	67	(as above)
R28M	2nd Qtr 2006	Chloride (d) (mg/l)	2.3, 2.8, 13.8, 16.2, 55.7	87.7	192	Alternate source demonstration approved by Modification No. 76.
	2nd Qtr 2007	Arsenic (d) (ug/l)	16	16	12	Continued detection monitoring approved by Modification No. 80.
	3rd Qtr 2007	Arsenic (d) (ug/l)	16	73	12	Continued detection monitoring approved by Modification No. 80.
	4th Qtr 2007	Arsenic (d) (ug/l)	19	17	12	Confirmed increase evaluation pending.
G36M	2nd Qtr 2006	Chloride (d) (mg/l)	3.2, 3.8, 4.1, 4.5, 5.2	6.4	192	Continued detection monitoring approved by Modification No. 76.
	2nd Qtr 2006	Bis(2-ethylhexyl) phthalate (ug/l)	11E	<10	10	Not confirmed.
	2nd Qtr 2007	Chloride (d) (mg/l)	5.2, 5.3, 5.7, 7.7, 9.8	8.7	192	Continued detection monitoring approved by Modification No. 80.
	2nd Qtr 2007	Bis(2-ethylhexyl) phthalate (ug/l)	11E	<10	10	Not confirmed.
G37M	2nd Qtr 2007	Nitrate (t) (mg/l)	2.9	1.6	1.29	Continued detection monitoring approved by Modification No. 80.
G38M	2nd Qtr 2006	Sodium (t) (mg/l)	202	77.4	107.4	Not confirmed.
	3rd Qtr 2006	Iron (d) (ug/l)	780	<50	276	Not confirmed.

E – estimated.

Table 17
Summary of 2006 & 2007 Confirmation Sampling Results – Uppermost Aquifer Wells
Countryside Landfill

Well ID	Sampling Event	Parameter (units)	Sampling Result	Resampling Results	AGQS/MAPC	Status
R33D	2nd Qtr 2006	Iron (d) (ug/l)	58, 82, 210, 260, 380	340	3,009	Continued detection monitoring approved by Modification No. 76.
	2nd Qtr 2007	Manganese (d) (ug/l)	150, 170, 180, 200, 250	300	556	Continued detection monitoring approved by Modification No. 80.
		Aluminum (t) (ug/l)	1,600	<200	1,200	Not confirmed.
		Potassium (t) (mg/l)	14.3	12.8	8.9	Continued detection monitoring approved by Modification No. 80.
G45D	3rd Qtr 2006	Nitrate (d) (mg/l)	0.17	<0.050	0.14	Not confirmed.
	4th Qtr 2006	Nitrate (d) (mg/l)	0.15	<0.050	0.14	Not confirmed.
G46D	2nd Qtr 2007	Acetone (ug/l)	55	59	10	Assessment monitoring program approved by Modification No. 80.
G47D	2nd Qtr 2007	Zinc (t) (ug/l)	19	8.8	18	Not confirmed.
	3rd Qtr 2007	Nitrate (d) (mg/l)	0.16	0.098	0.14	Not confirmed.
	4th Qtr 2007	Nitrate (d) (mg/l)	0.22	0.36	0.14	Confirmed increase evaluation pending.
G48D	1st Qtr 2006	Zinc (d) (ug/l)	18	<4	9.8	Not confirmed.
G49D	1st Qtr 2006	Sulfate (d) (mg/l)	182, 202, 218, 239, 284	273	1,105	Continued detection monitoring approved by Modification No. 75.
G50D	3rd Qtr 2006	Zinc (d) (ug/l)	17	<4	9.8	Not confirmed.
G51D	4th Qtr 2007	Boron (d) (ug/l)	500, 510, 560, 580, 600	np	656.3	Confirmed increase evaluation pending.
		Nitrate (d) (mg/l)	0.19	0.22	0.14	Confirmed increase evaluation pending.
G52D	1st Qtr 2006	Boron (d) (ug/l)	740	np	902.7	Intrawell AGQS/MAPC approved by Modification No. 73.
	2nd Qtr 2006	Boron (d) (ug/l)	740	np	902.7	Intrawell AGQS/MAPC approved by Modification No. 73.
		Boron (t) (ug/l)	780	np	920.8	Intrawell AGQS/MAPC approved by Modification No. 73.
		COD (mg/l)	23.9	16.4	19	Not confirmed.
	2nd Qtr 2007	COD (mg/l)	20.2	13.8	19	Not confirmed.

Table 17 (cont'd)
Summary of 2006 & 2007 Confirmation Sampling Results – Uppermost Aquifer Wells
Countryside Landfill

Well ID	Sampling Event	Parameter	Sampling Result	Resampling Results	AGQS/MAPC	Status
G53D	2nd Qtr 2007	Boron (d) (ug/l)	580, 610, 620, 630, 640	680	656.3	Continued detection monitoring approved by Modification No. 80.
	4th Qtr 2007	Boron (d) (ug/l)	660	660	656.3	Confirmed increase evaluation pending.
	4th Qtr 2007	Nitrate (d) (mg/l)	0.27	<0.050	0.14	Confirmed increase evaluation pending.
R55D	1st Qtr 2006	Ammonia (d) (mg/l)	8.0	12.7	3.5	Groundwater assessment report and return detection monitoring approved by Modification No. 76.
	1st Qtr 2006	Arsenic (d) (ug/l)	8.1	<5	5.2	Not confirmed.
	2nd Qtr 2006	Ammonia (d) (mg/l)	4.5	6.6	3.5	Groundwater assessment report and continued detection monitoring approved by Modification No. 76.
		Aluminum (t) (ug/l)	7,800	910	1,200	Not confirmed.
		Ammonia (t) (mg/l)	4.5	6.8	3.6	Continued detection monitoring approved by Modification No. 76.
		Iron (t) (mg/l)	7.3	0.80	2.70	Not confirmed.
		Lead (t) (ug/l)	4.7	<1	4.1	Not confirmed.
		Potassium (t) (mg/l)	34.7	44.8	8.9	Continued detection monitoring approved by Modification No. 76.
		Zinc (t) (ug/l)	25	12	18	Not confirmed.
	4th Qtr 2006	Boron (d) (ug/l)	170, 370, 410, 580, 590	610	656.3	Continued detection monitoring approved by Modification No. 78.
	1st Qtr 2007	Boron (d) (ug/l)	700	570	656.3	Not confirmed.
	2nd Qtr 2007	Boron (d) (ug/l)	710	480	656.3	Not confirmed.
		Aluminum (t) (ug/l)	1,300	2,100	1,200	
		COD (mg/l)	24.9	14.9	19	Not confirmed.
		Potassium (t) (mg/l)	11.4	30.5	8.9	
	4th Qtr 2007	Boron (d) (ug/l)	750	720	656.3	Confirmed increase evaluation pending.

d. Document leachate management in the existing and expansion areas.

Response; Leachate management in the north and south expansion areas is provided by the landfill liner grades in these areas being sloped in a herringbone or sawtooth pattern with a minimum 2% grade toward perimeter leachate collection swales. The leachate collection swales are located around the perimeter of the liner base area, at the toe of the sideslope. Leachate is conveyed to the leachate collection swale via a granular drainage layer placed on top of the liner. High density polyethylene perforated piping within the leachate collection swales conveys leachate to the collection sumps located along the east side of the north and south expansion areas. These sumps correspond to monitoring points L101 and L102 located in the north expansion and L105 and L106 located in the south expansion. Sideslope riser pipes installed within each sump allow the placement of a leachate pump within each sump. Leachate pumps convey leachate to a forcemain, where leachate is transported to leachate storage tanks where it is temporarily stored prior to removal offsite to a waste water treatment plant.

For the vertical expansion area above the existing unit, the liner above the existing unit will also be graded in a herringbone pattern to facilitate leachate management. The granular drainage layer placed in this area will be tied into the granular drainage layer of adjacent north and south expansion areas. This will allow movement of leachate from the vertical expansion area to the expansion areas and removal via the collection sumps.

For the existing unit, leachate management consists of the installation of dual leachate/gas extraction wells. These wells are used for both gas and leachate extraction. Leachate removed by pumping from these wells is conveyed by pipeline to the leachate storage tanks.

e. Provide monitoring data on leachate levels at all leachate monitoring points. Identify quantities of leachate recirculated and managed off-site.

Response:

Leachate levels for points L101, L102, L106, L105, L111 and R112 are summarized on Table 18. Levels are not measured at points L103 and L104 (lift stations) and L118 (storage tanks). L113 has not been placed into service yet.

Leachate level measurements in points L101, L102, L105 and L106 represent the depth of leachate in each respective collection sump. For comparison, the depth of each sump is also provided in Table 18. In all cases the leachate depth has been maintained below the top of each sump.

Point L111 represents the leachate level on the liner invert measured via a sideslope riser on the west side of the north expansion. L111 has been dry throughout 2006 and 2007.

Point R112 is used to measure leachate levels in the existing unit. As required by Permit No. 1994-479-LF, the leachate level in the existing unit shall be maintained below the groundwater phreatic surface in adjacent areas. Monitoring well R27U is used as a reference point to measure the elevation of the groundwater phreatic surface. A comparison of the leachate elevation in R112 and the groundwater phreatic surface elevation in R27U is summarized in Table 19. During 2006 and 2007, the leachate level has been maintained below the groundwater phreatic surface.

The amount of leachate managed off-site during 2006 and 2007 is summarized in Table 20. Leachate is transported to the Kenosha Water Utility waste water treatment plant in Kenosha, Wisconsin for disposal. No leachate was recirculated during 2006 or 2007.

Table 18
Summary of 2006 & 2007 Leachate Level Measurements
Countryside Landfill

Point	North Expansion			South Expansion		Existing Unit
	L101	L102	L111	L105	L106	R112
Construction	Sump (depth 3.5')	Sump (depth 3.46')	Sideslope Riser	Sump (depth 4.05')	Sump (depth 4.47')	Piezometer
Measurement Point	Sump Invert	Sump Invert	Liner Invert	Sump Invert	Sump Invert	Top of Piezometer
Measurement	Liquid Depth Above Sump Invert (feet)	Liquid Depth Above Sump Invert (feet)	Liquid Depth Above Liner Invert (feet)	Liquid Depth Above Sump Invert (feet)	Liquid Depth Above Sump Invert (feet)	Elevation of Liquid Surface (feet MSL)
1st Quarter 2006	1.17	2.17	Dry	2.92	0.83	777.53
2nd Quarter 2006	1.7	1.7	Dry	2.75	0.83	776.28
3rd Quarter 2006	1.67	2.5	Dry	2.67	0.75	776.51
4th Quarter 2006	2.0	1.25	Dry	1.58	2.0	776.17
1st Quarter 2007	1.92	2.83	Dry	2.42	2.58	777.17
2nd Quarter 2007	1.83	2.0	Dry	2.58	2.58	780.10
3rd Quarter 2007	2.67	2.58	Dry	2.58	2.25	781.16
4th Quarter 2007	2.0'	2.5	Dry	2.1'	1.83	788.80*

*Obstruction or kink in piezometer; replaced December 10, 2007.

Table 19
2006 & 2007 R112 – R27U Comparison
Countryside Landfill

Monitoring Period	R112 Elevation of Leachate (feet MSL)	R27U Elevation of Groundwater Phreatic Surface (feet MSL)
1st Quarter 2006	777.53	Frozen
2nd Quarter 2006	776.28	808.26
3rd Quarter 2006	776.51	809.20
4th Quarter 2006	776.17	808.13
1st Quarter 2007	777.17	806.50
2nd Quarter 2007	780.10	805.92
3rd Quarter 2007	781.16	805.09
4th Quarter 2007	788.80	804.19

Table 20
2006 & 2007 Leachate Quantities Managed Offsite
Countryside Landfill

Month	2006 (gallons)	2007 (gallons)
January	237,921	266,418
February	518,914	150,846
March	383,680	361,367
April	318,042	321,605
May	485,984	470,692
June	743,214	327,214
July	404,688	457,208
August	905,008	1,711,591
September	446,602	2,679,477
October	933,358	1,033,875
November	356,391	689,181
December	233,850	361,387
Total	5,967,652	8,830,861

Note: No leachate quantities were recirculated during 2006 and 2007.

f. Provide and summarize leachate quality, lab analytical data results for 2006 and 2007. Please highlight and discuss the quality of the leachate and if there are any trends or concerns.

Response: Leachate analytical results indicate that leachate from the facility is chemically consistent with expected municipal solid waste leachate and its decomposition process. Leachate from areas recently placed into service, points L105 and L106, exhibit characteristics of younger leachate, which is typically characterized by higher COD and specific conductance levels and lower pH. Leachate from the older parts of the facility, the existing unit, represented by points L103 and L104, exhibit characteristics of mature leachate, which typically is characterized by lower COD and specific conductance values. There are no concerns regarding leachate quality trends.

Testing of leachate for hazardous characteristics indicates that facility leachate is non-hazardous. Analytical results for hazardous characteristic testing for 2006 and 2007 is attached.

2006 Leachate Hazardous Characteristic Testing

Sample ID: L118
Lab Sample ID: A6987901
Date Collected: 08/28/2006
Time Collected: 12:00

Date Received: 08/29/2006
Project No: NY5A5826.2
Client No: L10923
Site No: CSL

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
SW8463 8260 - TCLP VOLATILES							
1,1-Dichloroethene	ND		0.3	MG/L	8260	09/06/2006 16:32	LH
1,2-Dichloroethane	ND		0.2	MG/L	8260	09/06/2006 16:32	LH
Benzene	ND		0.2	MG/L	8260	09/06/2006 16:32	LH
Carbon Tetrachloride	ND		0.2	MG/L	8260	09/06/2006 16:32	LH
Chlorobenzene	ND		50	MG/L	8260	09/06/2006 16:32	LH
Chloroform	ND		3	MG/L	8260	09/06/2006 16:32	LH
Methyl Ethyl Ketone	ND		100	MG/L	8260	09/06/2006 16:32	LH
Tetrachloroethene	ND		0.3	MG/L	8260	09/06/2006 16:32	LH
Trichloroethene	ND		0.2	MG/L	8260	09/06/2006 16:32	LH
Vinyl chloride	ND		0.1	MG/L	8260	09/06/2006 16:32	LH
SW8463 8270 - TCLP BNA EXTRACTABLES							
1,4-Dichlorobenzene	ND		3.7	MG/L	8270	09/08/2006 09:40	PM
2,4,5-Trichlorophenol	ND		200	MG/L	8270	09/08/2006 09:40	PM
2,4,6-Trichlorophenol	ND		1.0	MG/L	8270	09/08/2006 09:40	PM
2,4-Dinitrotoluene	ND		0.065	MG/L	8270	09/08/2006 09:40	PM
Cresol, m-	ND		100	MG/L	8270	09/08/2006 09:40	PM
Cresol, o-	ND		100	MG/L	8270	09/08/2006 09:40	PM
Cresol, p-	ND		100	MG/L	8270	09/08/2006 09:40	PM
Hexachlorobenzene	ND		0.065	MG/L	8270	09/08/2006 09:40	PM
Hexachlorobutadiene	ND		0.25	MG/L	8270	09/08/2006 09:40	PM
Hexachloroethane	ND		1.5	MG/L	8270	09/08/2006 09:40	PM
Nitrobenzene	ND		1.0	MG/L	8270	09/08/2006 09:40	PM
Pentachlorophenol	ND		50	MG/L	8270	09/08/2006 09:40	PM
Pyridine	ND		2.5	MG/L	8270	09/08/2006 09:40	PM
METHOD 8081 - TCLP PESTICIDES							
Chlordane	ND		0.015	MG/L	8081	09/02/2006 20:04	TCH
Endrin	ND		0.010	MG/L	8081	09/02/2006 20:04	TCH
gamma-BHC (Lindane)	ND		0.20	MG/L	8081	09/02/2006 20:04	TCH
Heptachlor	ND		0.0040	MG/L	8081	09/02/2006 20:04	TCH
Heptachlor epoxide	ND		0.0040	MG/L	8081	09/02/2006 20:04	TCH
Methoxychlor	ND		5.0	MG/L	8081	09/02/2006 20:04	TCH
Toxaphene	ND		0.25	MG/L	8081	09/02/2006 20:04	TCH
SW8463 8151 - TCLP HERBICIDES							
2,4,5-TP (Silvex)	ND		0.50	MG/L	8151	09/02/2006 16:44	TCH
2,4-D	ND		5.0	MG/L	8151	09/02/2006 16:44	TCH
TCLP Metals Analysis							
Arsenic, Total	ND		0.44	MG/L	6010	08/31/2006 15:08	AK
Barium, Total	0.20		0.0040	MG/L	6010	08/31/2006 15:08	AK
Cadmium, Total	ND		0.018	MG/L	6010	08/31/2006 15:08	AK
Chromium, Total	0.028		0.016	MG/L	6010	08/31/2006 15:08	AK
Lead, Total	ND		0.40	MG/L	6010	08/31/2006 15:08	AK
Mercury, Total	ND		0.00020	MG/L	7470	08/30/2006 13:31	LH
Selenium, Total	ND		1.0	MG/L	6010	08/31/2006 15:08	AK
Silver, Total	ND		0.040	MG/L	6010	08/31/2006 15:08	AK

Sample ID: L118
Lab Sample ID: A6987901
Date Collected: 08/28/2006
Time Collected: 12:00

Date Received: 08/29/2006
Project No: NY5A5826.2
Client No: L10923
Site No: CSL

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Wet Chemistry Analysis							
H2S Released From Waste	ND		50.0	MG/L	SECT7.3	09/02/2006 11:30	SM
HCN Released From Waste	ND		50.0	MG/L	SECT7.3	09/02/2006 11:30	SM
Ignitability	>200		0	°F	1010	08/30/2006 14:00	SS
pH (Lab Test)	7.85		0.500	S.U.	9040	08/29/2006 18:25	SM

2007 Leachate Hazardous Characteristic Testing

Sample ID: L118
Lab Sample ID: A7956301
Date Collected: 08/24/2007
Time Collected: 10:30

Date Received: 08/25/2007
Project No: NY5A5826.2
Client No: L10923
Site No: CSL

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
SW8463 8260 - TCLP VOLATILES							
1,1-Dichloroethene	ND		0.3	MG/L	8260	09/05/2007 06:53	ND
1,2-Dichloroethane	ND		0.2	MG/L	8260	09/05/2007 06:53	ND
Benzene	ND		0.2	MG/L	8260	09/05/2007 06:53	ND
Carbon Tetrachloride	ND		0.2	MG/L	8260	09/05/2007 06:53	ND
Chlorobenzene	ND		50	MG/L	8260	09/05/2007 06:53	ND
Chloroform	ND		3	MG/L	8260	09/05/2007 06:53	ND
Methyl Ethyl Ketone	ND		100	MG/L	8260	09/05/2007 06:53	ND
Tetrachloroethene	ND		0.3	MG/L	8260	09/05/2007 06:53	ND
Trichloroethene	ND		0.2	MG/L	8260	09/05/2007 06:53	ND
Vinyl chloride	ND		0.1	MG/L	8260	09/05/2007 06:53	ND
SW8463 8270 - TCLP BNA EXTRACTABLES							
1,4-Dichlorobenzene	ND		3.7	MG/L	8270	08/30/2007 20:36	PM
2,4,5-Trichlorophenol	ND		200	MG/L	8270	08/30/2007 20:36	PM
2,4,6-Trichlorophenol	ND		1.0	MG/L	8270	08/30/2007 20:36	PM
2,4-Dinitrotoluene	ND		0.065	MG/L	8270	08/30/2007 20:36	PM
Cresol, m-	ND		100	MG/L	8270	08/30/2007 20:36	PM
Cresol, o-	ND		100	MG/L	8270	08/30/2007 20:36	PM
Cresol, p-	ND		100	MG/L	8270	08/30/2007 20:36	PM
Hexachlorobenzene	ND		0.065	MG/L	8270	08/30/2007 20:36	PM
Hexachlorobutadiene	ND		0.25	MG/L	8270	08/30/2007 20:36	PM
Hexachloroethane	ND		1.5	MG/L	8270	08/30/2007 20:36	PM
Nitrobenzene	ND		1.0	MG/L	8270	08/30/2007 20:36	PM
Pentachlorophenol	ND		50	MG/L	8270	08/30/2007 20:36	PM
Pyridine	ND		2.5	MG/L	8270	08/30/2007 20:36	PM
METHOD 8081 - TCLP PESTICIDES							
Chlordane	ND		0.015	MG/L	8081	08/30/2007 09:41	TCH
Endrin	ND		0.010	MG/L	8081	08/30/2007 09:41	TCH
gamma-BHC (Lindane)	ND		0.20	MG/L	8081	08/30/2007 09:41	TCH
Heptachlor	ND		0.0040	MG/L	8081	08/30/2007 09:41	TCH
Heptachlor epoxide	ND		0.0040	MG/L	8081	08/30/2007 09:41	TCH
Methoxychlor	ND		5.0	MG/L	8081	08/30/2007 09:41	TCH
Toxaphene	ND		0.25	MG/L	8081	08/30/2007 09:41	TCH
SW8463 8151 - TCLP HERBICIDES							
2,4,5-TP (Silvex)	ND		0.50	MG/L	8151	08/30/2007 00:15	TCH
2,4-D	ND		5.0	MG/L	8151	08/30/2007 00:15	TCH
TCLP Metals Analysis							
Arsenic, Total	ND		0.44	MG/L	6010	08/30/2007 20:46	AK
Barium, Total	0.21		0.0040	MG/L	6010	08/30/2007 20:46	AK
Cadmium, Total	ND		0.018	MG/L	6010	08/30/2007 20:46	AK
Chromium, Total	0.046		0.016	MG/L	6010	08/30/2007 20:46	AK
Lead, Total	ND		0.40	MG/L	6010	08/30/2007 20:46	AK
Mercury, Total	ND		0.00020	MG/L	7470	08/31/2007 14:27	MM
Selenium, Total	ND		1.0	MG/L	6010	08/30/2007 20:46	AK
Silver, Total	ND		0.040	MG/L	6010	08/30/2007 20:46	AK

Sample ID: L118
Lab Sample ID: A7956301
Date Collected: 08/24/2007
Time Collected: 10:30

Date Received: 08/25/2007
Project No: NY5A5826.2
Client No: L10923
Site No: CSL

Parameter	Result	Flag	Detection Limit	Units	Method	Date/Time Analyzed	Analyst
Wet Chemistry Analysis							
H2S Released From Waste	ND		50.0	MG/L	SECT7.3	08/28/2007 17:00	TL
HCN Released From Waste	ND		50.0	MG/L	SECT7.3	08/28/2007 17:00	TL
Ignitability	>176		0	°F	1010	09/08/2007 08:00	RM
pH (Lab Test)	7.40		0.500	S.U.	9040	08/25/2007 13:12	RM

g. Provide current landfill gas collection system showing all pertinent features and description of system and expansions.

Response: The current landfill gas management system design for the facility was permitted by Modification No. 25, Log No. 2000-070. During 2000, the gas management system within the existing unit was completely rebuilt along with expansion of the system into Cell 1 of the south expansion area and Cell 2 of the north expansion area. A construction acceptance report describing these activities was submitted to IEPA and was subsequently approved by Modification No. 34, Log No. 2001-224. As such, the gas management system described in Modification No. 34 is considered the "baseline" configuration. Subsequent expansions of the system are sequentially numbered as they occur; expansions approved to date are summarized in Table 21.

Table 21
Summary of Gas Management System Expansions
Countryside Landfill

Gas Management System Expansion	Log No.	Modification No.
1	2001-173	45
2	2002-137	42
3	2003-155	51
4	2004-080	56
5	2004-467	64
6	2005-327	70
7	2006-189	74
8	2007-001	76
9	2007-460	81
10	2008-170	Pending

The gas management system currently in place has been constructed incrementally over time and the extent of the system as of December 31, 2007 is shown on the attached Drawing No. 1. As of this date, the system consists of a total of 86 in-refuse gas extraction wells. In addition, the system also includes 11 connections to other collection devices, such as leachate lift stations, leachate /groundwater collection trenches and out of refuse collectors. These are identified as the "OD" and "ORW" points on the drawing. The gas management system will continue to be constructed in increments as the landfill is constructed and filled.

Gas management system construction in 2006 (Log No. 2007-001) consisted of the installation of six in-refuse gas extraction wells (W-109, W-110, W-122, W-126, W-139R and W-141R), one out-of-refuse gas extraction well (ORW-3D) and 578 feet of 6-inch diameter HDPE gas collection header pipe and 219 feet of 4-inch HDPE header pipe.

Gas management system construction in 2007 (Log No. 2007-460) consisted of the installation of one out-of-refuse gas extraction well (ORW-4) and 160 feet of 2-inch diameter HDPE gas collection header pipe.

Landfill gas control devices at the facility consist of (1) a landfill gas to electricity plant ("gas plant") that includes six internal combustion engines, each with a capacity of 422 cubic feet per minute ("cfm") or 2,532 cfm for the entire gas plant and (2) an enclosed flare with two 125-horsepower blowers and a capacity of 4,200 cfm. Total control device capacity between the gas plant and the enclosed flare is 6,732 cfm. Excess landfill gas not used by the gas plant is combusted in the enclosed flare. The gas plant is owned and operated by a 3rd party, U.S. Energy Biogas Corporation.

The total amount of landfill gas managed during 2006 and 2007 was approximately 1,176,332,600 and 1,222,939,100 cubic feet, respectively. The average weekly landfill gas flow during 2006 and 2007 is shown on Figure 9.

NORTH EXPANSION

SOUTH EXPANSION

EXISTING UNIT

NORTHWEST PUMP STATION

NORTHWEST KNOCKOUT

TIE INTO EXISTING 14" PIPE AND 2" AIRLINE

18" FUTURE BLIND FLANGE

2" VACUUM LINE TO ORW-3D

TIE INTO EXISTING 18" HEADER PIPELINE

TIE INTO EXISTING 2" AIRLINE AND 3" FORCEMAIN

14" FLANGE TIE INTO EXISTING PIPE

CONNECTION TO ZAPCO GAS-TO-ELECTRICITY FACILITY

BLOWER AND ENCLOSED FLARE UNIT

18" KNOCKOUT

N 9000
N 8500
N 8000
N 7500
N 7000
N 6500

LEGEND

830	CONTOUR
6"	EXISTING HEADER OR LATERAL PIPELINE
W-145	GAS EXTRACTION WELL
W-2R	ABANDONED GAS EXTRACTION WELL
RW-39	EXISTING REMCTE WELLHEAD
OD-206 ORW-2S	OTHER COLLECTION DEVICE
CK-1	EXISTING CONDENSATE KNOCKOUT
PS-1	EXISTING CONDENSATE PUMP STATION
	EXISTING AIRLINE BLOWOFF RISER
	EXISTING 2" AIRLINE CONTROL VALVE
	EXISTING 3" FORCEMAIN CONTROL VALVE
	EXISTING UNDERGROUND CONTROL VALVE
	EXISTING REDUCER
	EXISTING HEADER ACCESS RISER
	EXISTING FLANGE
	EXISTING BLIND FLANGE
	EXISTING TEE OR BRANCH SADDLE
H P 4"	HIGH POINT IN PIPELINE
ORW-4	OUT OF REFUSE WELL

NOTE:

THIS DRAWING SHOWS THE EXTENT OF THE GAS MANAGEMENT SYSTEM AS OF JUNE 30, 2008.

N

SCALE 300' 150' 0' 300'

NO	REVISIONS	DRN	CHK	DATE

Sheboygan, Wisconsin

DRN FLD | DES | CHK | APP

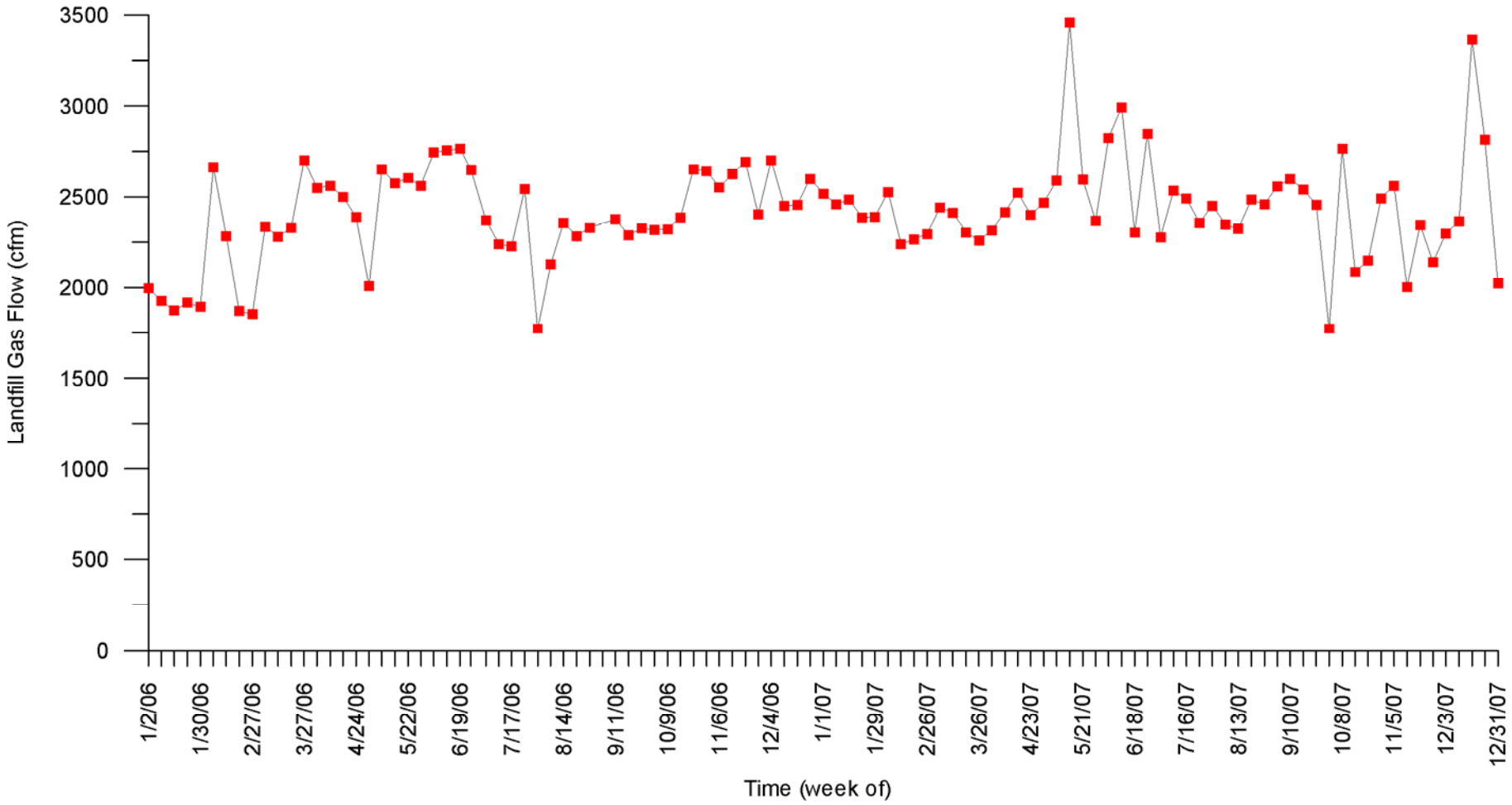
E A R T H T E C H

GAS MANAGEMENT SYSTEM
COUNTRYSIDE LANDFILL
LAKE COUNTY, ILLINOIS

WELL AND HEADER LAYOUT PLAN

DATE	AUGUST 2008
PROJECT NO	103883
FILENAME	
SHEET NO	
DRAWING NO	1

Figure 9
Average Weekly Landfill Gas Flow
January 1, 2006 - December 31, 2007
Countryside Landfill



h. Summarize all surface emission monitoring, monthly interior well monitoring data, and perimeter probe monitoring, and identify any exceedances (maps/graphical & tabular) for 2006 and 2007.

Response:

1. Landfill surface emission monitoring. Land surface emission monitoring required by Permit No. 97040110 was performed on a quarterly basis during 2006 and 2007. Landfill surface emission monitoring was performed on March 22, 2006, May 18, 2006, July 21, 2007, October 9, 2006, March 20, 2007, June 12, 2007, August 13, 2007 and October 5, 2007. There were no surface emission exceedances during these monitoring events.

2. Monthly interior well monitoring. During 2006 and 2007, monthly interior well monitoring was performed as required by Permit No. 9704110 for each gas extraction wellhead for pressure, temperature and oxygen. There were was one positive pressure exceedance for well 51 with a reading +0.4" in April 2006. The gas management system was expanded to address this exceedance. There were no other positive pressure exceedances, no temperature exceedances (greater than 55°C) and no oxygen exceedances (greater than 5%) in 2006 and 2007.

3. Perimeter probe monitoring. During 2006 and 2007, monthly perimeter probe monitoring was performed on the 24 gas monitoring probes as required by Permit No. 1994-479-LF. Methane concentrations above 50% of the LEL (2.5%) detected in gas monitoring probes are summarized in Table 22 and shown graphically on Figure 10. Corrective action undertaken to address these exceedances are discussed as follows.

West Side Existing Unit – Probes CL08D & CL09S

Five in-refuse gas extraction wells were installed along the west side of the existing unit as approved by Modification No. 43 in August 2002. These wells (W-145 through W-148) were installed in October 2002 and placed into service in July 2003.

Two additional in-refuse gas extraction wells (W-150 and W-151) and four out-of-refuse extraction wells (ORW-1S, ORW-1D, ORW-2S and ORW-2D) were installed in September 2004, pursuant to Modification No. 58.

An additional out-of-refuse extraction well (ORW-3D) was installed in October 2006, pursuant to Modification No. 74.

Two in-refuse gas extraction wells (W-153 and W-154) were installed in November 2007, pursuant to Modification No. 81.

The effectiveness of these activities continues to be evaluated.

Existing Unit East Side – Probes CL01S and CL01D

One in-refuse gas extraction well (W-152) was installed along the east side of the existing unit in June 2005 pursuant to Modification No. 62 and placed into service in February 2006.

One out-of-refuse gas extraction well (ORW-4) was installed in July 2007, pursuant to Modification No. 76.

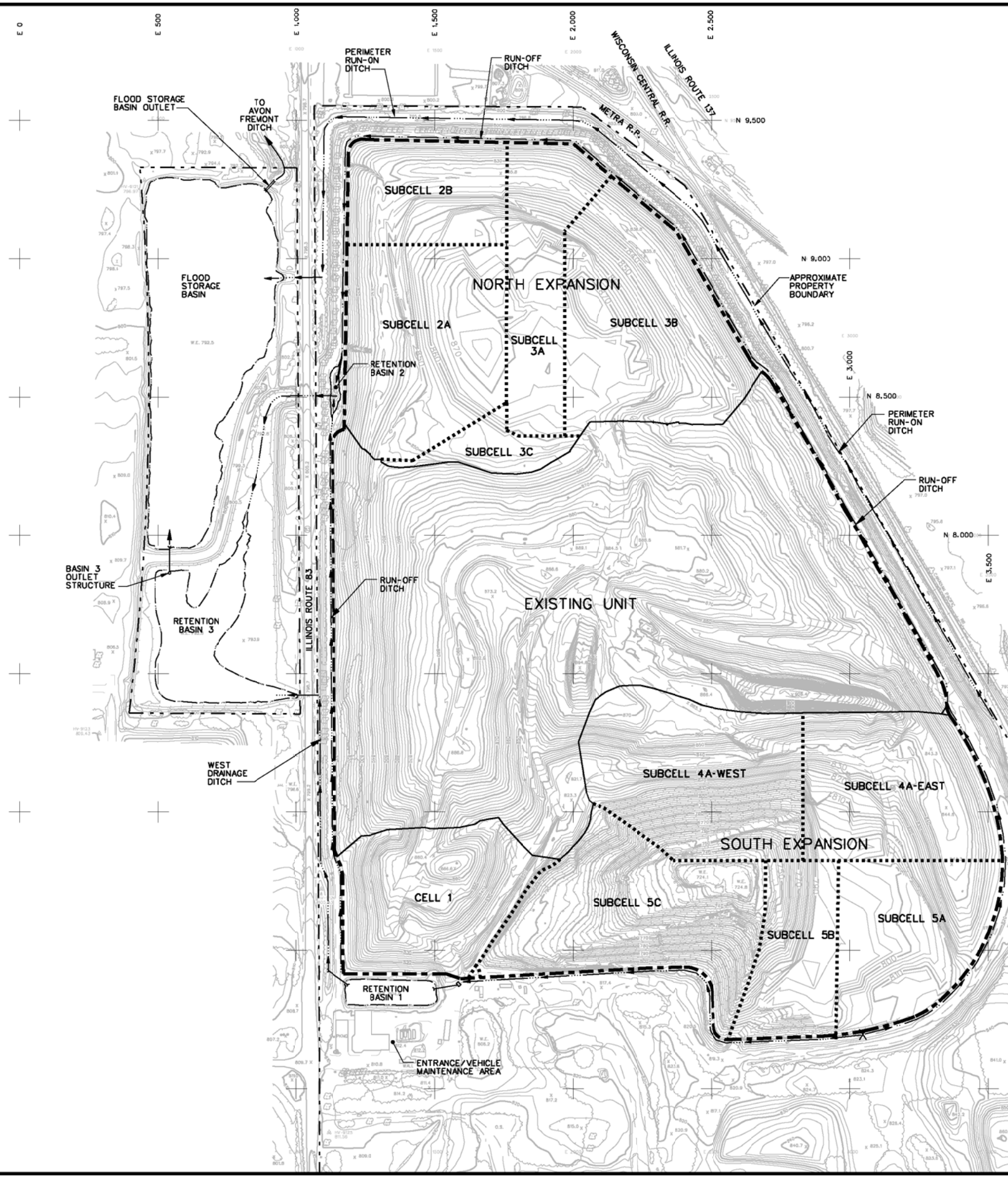
The effectiveness of these activities continues to be evaluated.

1. Explain any corrective actions that have been undertaken or will be undertaken to correct air emission exceedances.

Response: There were no air emission exceedances in 2006 or 2007 and, therefore, no corrective actions necessary.

Table 22
Summary 0f 2006 & 2007 Gas Monitoring Probe Exceedances
Countryside Landfill

Year	Month	CL01S (% CH_4)	CL01D (% CH_4)	CL08D (% CH_4)	CL09S (% CH_4)
2006	January	4.8		61.0	
	February	4.4		61.9	
	March	8.1		61.2	
	April	6.4		61.6	
	May			60.8	
	June	2.9	3.3	64.0	
	July	2.7	6.1	63.3	
	August	3.4	4.5	63.7	
	September	4.4	4.2	62.3	
	October	3.3	6.4	62.4	
	November			61.4	
	December			58.9	
2007	January			59.0	
	February	7.0	6.5	59.0	
	March		4.4	59.1	
	April	3.6	3.5	58.3	
	May		3.1	57.8	
	June	2.9	9.6	58.4	20.6
	July	12.3	7.3	59.0	
	August		11.1	58.5	
	September		10.1	68.1	
	October		4.4	68.3	
	November		3.5	67.1	
	December		3.4	71.6	



LEGEND:

- EXISTING TOPOGRAPHY
- APPROXIMATE PROPERTY BOUNDARY
- PERMITTED WASTE DISPOSAL LIMITS

NOTES:

1. TOPOGRAPHY BASED ON JULY 29, 2007 TOPOGRAPHIC MAP PREPARED BY AEROMETIRC ENGINEERING. ACTIVE AREAS WERE UPDATED BY GROUND SURVEY PERFORMED BY WEAVER BOOS, OCTOBER 3, 2007 AND JANUARY 3, 2008.

N

SCALE 0' 200' 400'

FIGURE 10

SURFACE WATER MANAGEMENT SYSTEM LAYOUT

COUNTRYSIDE LANDFILL
LAKE COUNTY, ILLINOIS

AUGUST 2008

i. Document surface water management procedures (description & maps). Provide results and any testing per NPDES or on off-site discharges.

Response: Both storm water run-off and storm water run-on is handled by the surface water management system at Countryside Landfill as shown on Figure 10. Surface water management structures have been designed for a 100-year 24-hour rainfall event.

Storm water run-off from the landfill is conveyed off the landfill via a series of diversion berms and downslope channels. Storm water from the landfill is conveyed to a run-off ditch around the landfill footprint. The run-off ditch then conveys surface water to three sedimentation basins, identified as Basin 1, Basin 2 and Basin 3. The purpose of the sedimentation basins is to reduce the amount of sediment in storm water prior to its discharge. Basin 1 is located south of the landfill and handles storm water run off from the entrance area and associated buildings, along with the south portion of the landfill. Basin 2 is located west of Cell 2 and handles storm water runoff from the east, north and west portions of the landfill. Both Basins 1 and 2 convey storm water runoff to Basin 3 located west of Ill. Route 83 and south of the flood storage basin. Surface water is conveyed via concrete box culverts under Ill. Route 83. Storm water runoff from Basin 3 is discharged into the flood storage basin where along with storm water run-on, is discharged to the Avon/Fremont Ditch.

Storm water run-on is diverted away from the waste disposal footprint by a perimeter ditch that intercepts storm water run-on. This perimeter ditch conveys storm water run-on to the flood storage basin located west of Ill. Route 83. From the flood storage basin, storm water run-on is discharged to the Avon/Fremont Ditch.

The facility implements sediment and erosion control best management practices to minimize erosion and control sediment. Structural, vegetative and stabilization measures such as seeding and mulching, silt fencing and straw bales are used to limit erosion.

Storm water discharges from the facility are currently managed under IEPA Bureau of Water General NPDES Permit for Industrial Storm Water Discharges, Permit No. ILR000152. This general NPDES permit will be replaced by an individual NPDES permit. A draft of the individual permit, no. IL0075558, was subject to public review and comment May 14, 2008 through June 13, 2008, and a final permit is expected to be issued later this summer.

Stormwater discharges into the Avon/Fremont Ditch from the flood storage basin are monitored quarterly for total suspended solids and oil and grease. 2006 and 2007 surface water monitoring results are summarized on Table 23.

Table 23
Summary of 2006 & 2007 Surface Water Monitoring
Countryside Landfill

Sampling Period	Total Suspended Solids (mg/l)	Oil & Grease (mg/l)
1st Quarter 2006	NS	NS
2nd Quarter 2006	20.0	<5.0
3rd Quarter 2006	<4.0	<5.0
4th Quarter 2006	<4.0	<5.0
1st Quarter 2007	59.0	<5.0
2nd Quarter 2007	19.2	<5.0
3rd Quarter 2007	8.0	<5.0
4th Quarter 2007	<4.0	<5.0

j. Provide current status of the financial assurance plan including all revisions and provide a copy of the most recent financial assurance cost estimate and provide proof of financial assurance.

Response: Attached is the most recent closure and post-closure care cost estimate approved by IEPA (Log No. 2007-266, Modification No. 79). The financial assurance instrument for submitted for this cost estimate is also attached.

Closure & Post Closure Care Cost Estimate

Countryside Landfill
IEPA I.D. No. 0970250003
Permit No. 1994-479-LF
Lake County, Illinois

Countryside Landfill, Inc.

May 2007

I. Closure Cost Estimate

A. Existing Unit

1. Placement of additional 1.5' of protective soil (31.6 acres)		
$2.00/cy x 76,500 cy		$ 153,000
2. Placement of 0.5' of topsoil (31.6 acres)		
$2.00/cy x 25,500 cy		51,000
3. Final cover installation over haul road (3.9 acres)		
Geomembrane - $0.26 x 170,000 sf		44,200
2.5' protective soil - $2.00/cy x 15,700 cy		31,400
6" topsoil - $2.00/cy x 3,200 cy		6,400
4. Vegetation		
$1000/acre x 35.5 acres		35,500
5. CQA		30,000
6. Survey Certification		4,000
	Subtotal	$355,500
	Contingency @ 5%	17,775
	Total	$373,275

B. North Expansion Area

1. Geomembrane	
$0.26/sf x 1,171,800 sf	304,700
2. Geocomposite	
$0.50/sf x 585,900 sf	293,000
3. Cover Protective Layer	
$2.00/cy x 156,200 cy	312,400
4. Topsoil	
$2.00/cy x 21,700 cy	43,400
5. Vegetation	
$1,000/acre x 26.9 acres	26,900
6. Concrete Swale	
$0.50/sf x 11,000 sf	5,500

7. Removal of Scale		4,000
10. Demolition of Scalehouse		2,000
11. Removal of Wheel Wash		6,000
12. Equipment Decontamination		300
13. CQA		60,000
14. Survey Certification		5,000
		$1,063,200
	Contingency @ 5%	53,160
	Total	$1,116,360
Gas Plant Closure		3,000
	Total – North Expansion Area	$1,119,360

C. South Expansion Area

I. Subcell 4A West (9.9 acres)

1. LLDPE Geomembrane $0.32/ft^2 x 431,250 ft^2	$138,000
2. Geocomposite $0.53/ft^2 x 215,625 ft^2	114,281
3. Cover Protective Layer $2.15/yd^3 x 57,500 yd^3	123,625
4. Topsoil $2.15/yd^3 x 8,000 yd^3	17,200
5. Vegetation $1,100/acre x 9.9 acres	10,890
6. CQA	30,000
7. Survey Certification	5,000

	Subtotal	$438,996
	Contingency @ 5%	21,949
	Total	$460,945

II. Subcell 4A East (9.9 acres)

1. LLDPE Geomembrane $0.32/ft^2 x 431,250 ft^2	$138,000
2. Geocomposite $0.53/ft^2 x 215,625 ft^2	114,281
3. Cover Protective Layer $2.15/yd^3 x 57,500 yd^3	123,625
4. Topsoil $2.15/yd^3 x 8,000 yd^3	17,200
5. Vegetation $1,100/acre x 9.9 acres	10,890
6. CQA	30,000
7. Survey Certification	5,000
Subtotal	$438,996
Contingency @ 5%	21,949
Total	$460,945

III. Subcell 4B (4.5 acres)

1. LLDPE Geomembrane $0.32/ft^2 x 196,020 ft^2	$62,726
2. Geocomposite $0.53/ft^2 x 98,025 ft^2	51,953
3. Cover Protective Layer $2.15/yd^3 x 26,136 yd^3	56,192
4. Topsoil $2.15/yd^3 x 3,630 yd^3	7,804

5. Vegetation $1,100/acre x 4.5 acres		4,950
6. CQA		13,500
7. Survey Certification		3,000
	Subtotal	$200,125
	Contingency @ 5%	10,006
	Total	$210,131

IV. Subcell 5A (7.3 acres)

1. LLDPE Geomembrane $0.32/ft^2 x 318,000 ft^2		$101,760
2. Geocomposite $0.53/ft^2 x 159,000 ft^2		84,270
3. Cover Protective Layer $2.15/yd^3 x 42,408 yd^3		91,177
4. Topsoil $2.15/yd^3 x 5,900 yd^3		12,685
5. Vegetation $1,100/acre x 7.3 acres		8,030
6. CQA		21,900
7. Survey Certification		3,700
	Subtotal	$323,522
	Contingency @ 5%	16,176
	Total	$339,698

VI. Subcell 4C (4.5 acres)

1. LLDPE Geomembrane $0.32/ft^2 x 196,020 ft^2		$62,726
2. Geocomposite $0.53/ft^2 x 98,025 ft^2		51,953
3. Cover Protective Layer $2.15/yd^3 x 26,136 yd^3		56,192
4. Topsoil $2.15/yd^3 x 3,630 yd^3		7,804
5. Vegetation $1,100/acre x 4.5 acres		4,950
6. CQA		13,500
7. Survey Certification		3,000
	Subtotal	$200,125
	Contingency @ 5%	10,006
	Total	$210,131

V. Subcell 5B (5.0 acres)

1. LLDPE Geomembrane $0.32/ft^2 x 217,800 ft^2	$69,696
2. Geocomposite $0.53/ft^2 x 108,900 ft^2	57,717
3. Cover Protective Layer $2.15/yd^3 x 29,040 yd^3	62,436
4. Topsoil $2.15/yd^3 x 4,033 yd^3	8,671
5. Vegetation $1,100/acre x 5.0 acres	5,500
6. CQA	15,000
7. Survey Certification	3,000

Subtotal	$222,020
Contingency @ 5%	11,101
Total	$233,121
Total – South Expansion Area	$1,914,971

II. Post-Closure Care Cost Estimate

1. Inspection	
Quarterly	
4 days x $250/day x 30 years	$ 30,000
2. Repair of Final Cover	
Years 0-5 assume 3% of footprint requires 1' repair	
3% x 134 ac. X 1 ft. x $2.15/yd^3 x 5 years	69,400
Years 6-15 assume 1.5% of footprint requires 1' repair	
1.5% x 134 ac. X 1 ft. x $2.15/yd^3 x 10 years	69,700
Years 16-30 assume no repair necessary	
3. Vegetation reseeding	
Assume vegetation reseeding on final cover repair areas, plus 25% additional area	
4 ac. x 1.25 x $1000/acre x 5 years	25,000
2 ac. x 1.25 x $1000/acre x 10 years	25,000
4. Mowing	
Assume vegetation will be mowed annually at $25/acre	
$25/acre x 134 acres x 30 years	105,000
5. Gas sampling and monitoring	
Assume $3,000 per year	
$3,000/year x 30 years	90,000
6. Maintaining gas management system	
Assume $10,000 per year	
$10,000/year x 30 years	300,000
7. Leachate sampling and monitoring	
Assume $1,000 per year	
$1,000/year x 30 years	30,000
8. Maintaining leachate management system	
Assume $15,000 per year	
$15,000/year x 30 years	450,000
9. Ground-water sampling and analysis	
Twenty-four (24) monitoring wells	
Quarterly	
$200/sample x 24 samples/event x	
4 events/year x 30 years	576,000
Annual	
$1,200/sample x 24 samples/event x	
1 event/year x 30 years	864,000

10. Monitoring data evaluation and reporting $3,000/year x 30 years		90,000
11. Post-closure certification		2,000
12. Miscellaneous $1,000/year $1,000/year x 30 years		30,000
	Total	$2,756,100

III. Closure and Post-Closure Care Cost Summary

Closure Cost Estimate (Existing Unit)		$373,275
Closure Cost Estimate (North Expansion)		$1,119,360
Post-Closure Care Cost Estimate		$2,756,100
	Subtotal	$4,248,735

Past Revisions

1998 Annual Inflation Adjustment (1.1% for 1999)[1]	$46,735
1999 Annual Inflation Adjustment (1.5% for 2000)[2]	64,751
2000 Annual Inflation Adjustment (2.2% for 2001)[3]	97,246
Price adjustment for LLDPE geomembrane ($0.06/sf x 1,171,800 sf)[3]	70,308
Subcell 4A West closure[4] (Item I.C.I. above)	460,945
Update of Leachate Sampling and Analysis Costs[4]	708,000
2001 Annual Inflation Adjustment (2.4% for 2002)[5]	138,799
Subcell 4A East closure[6] (Item I.C.II above)	460,945
2002 Annual Inflation Adjustment (1.7% for 2003)[7]	107,529
Subcell 4B closure[8] (Item I.C.III above)	210,131
Well G11U post-closure monitoring costs[8]	65,980
2003 Annual Inflation Adjustment (1.9% for 2004)[9]	127,107
Subcell 5A Closure[10] (Item I.C.IV above)	339,698
2004 Annual Inflation Adjustment (2.0% for 2005)[11]	143,803
L105 & L106 Leachate Monitoring[11]	159,000
Subcell 4C Closure[12]	210,131
Subcell 5B Closure[13]	233,121
2005 Annual Inflation Adjustment (3.0% for 2005)[14]	236,789
Subtotal	$8,129,753
2006 Annual Inflation Adjustment (2.9% for 2006)	**$235,763**
Total	**$8,365,516**

Notes:

1. Previously approved by Modification No. 21, Log No. 1999-197.
2. Previously approved by Modification No. 31, Log No. 2000-197.
3. Previously approved by Modification No. 33, Log No. 2001-052.
4. Previously approved by Modification No. 38, Log No. 2001-440.
5. Previously approved by Modification No. 42, Log No. 2002-137.
6. Previously approved by Modification No. 48, Log No. 2002-390.
7. Previously approved by Modification No. 52, Log No. 2003-198.
8. Previously approved by Modification No. 57, Log No. 2004-129.

9. Previously approved by Modification No. 58, Log No. 2004-195.
10. Previously approved by Modification No. 60, Log No. 2004-388.
11. Previously approved by Modification No. 67, Log No. 2005-192.
12. Previously approved by Modification No. 68, Log No. 2005-295.
13. Previously approved by Modification No. 72, Log No. 2005-363.
14. Previously approved by Modification No. 74, Log No. 2006-189.

WASTE MANAGEMENT

WASTE MANAGEMENT
31725 N. Rte. 83
Grayslake, IL 60030
(847) 223-2722
(847) 223-3188 Fax

October 17, 2007

Mr. Robert Mathis
Illinois Environmental Protection Agency
Bureau of Land
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Re: 0970250003 – Lake County
Countryside Landfill
Permit No. 1994-479-LF

Dear Mr. Mathis:

Please find attached the following financial assurance documents for the above referenced facility, pursuant to Special Condition No. X.6 of Permit No. 1994-479:

- New certificate of insurance for closure and/or post-closure care in the amount of $8,365,516.00.
- Endorsement No. 19 to Closure and Post-Closure Insurance Policy #CPCS01-0017. This endorsement increases the coverage amount to $8,365,516.00.

The original and two (2) copies of this submittal are enclosed. If you have any questions, please do not hesitate to contact me at (847) 223-9282.

Sincerely,

Waste Management

Christopher G. Rubak, P.E.
Senior Engineer

Attachments

Certificate of Insurance for Closure and/or Post-Closure Care

CERTIFICATE OF INSURANCE FOR CLOSURE AND/OR
POST-CLOSURE CARE

Name and Address of Insurer ("Insurer"):

NATIONAL GUARANTY INSURANCE COMPANY OF VERMONT

100 Bank Street, Suite 610, Burlington, Vermont 05401

Name and Address of Insured ("Insured"):

Countryside Landfill, Inc.

31725 North Route 83, Grayslake, Illinois 60030

Sites Covered:

IEPA Site Number 0970250003

Name Countryside Landfill, Inc.

Address 31725 North Route 83

City Grayslake, Illinois 60030

Amount insured for this site: $ $8,365,516.00

IEPA Site Number

Name

Address

City

Amount insured for this site: $

Please attach a separate page if more space is needed for all sites.

Face Amount $8,365,516.00

Policy Number CPCS01-0017

Effective Date April 11, 2001 (Policy renewal period 4/11/07 to 4/11/08)

The Insurer hereby certifies that it is licensed to transact the business of insurance by the Illinois Department of Insurance.

The insurer hereby certifies that it has issued to the Insured the policy of insurance identified above to provide financial assurance for closure and post-closure care for the sites identified above. The Insurer further warrants that such policy conforms in all respects with the requirements of 35 Ill. Adm. Code 811.714, as applicable and as such regulations were constituted on the date shown immediately below. It is agreed that any provision of the policy inconsistent with such regulations is hereby amended to eliminate such inconsistency.

Name (Authorized Signature for Insurer) Donna L. Meals

Typed Name Donna L. Meals

Title Vice-President and Secretary

Date 10-15-07

Endorsement No. 19
Closure and Post-Closure Insurance Policy
#CPCS01-0017

NATIONAL GUARANTY INSURANCE COMPANY OF VERMONT
100 Bank Street, Suite 610
Burlington, VT 05401

Certified True & Correct Copy

9/28/07

ENDORSEMENT

NOTICE TO POLICYHOLDER: This endorsement is issued pursuant to Section 445 of the Illinois Insurance Code, by a company not authorized and licensed to transact business in Illinois and as such is not covered by the Illinois Insurance Guaranty Fund. Service of process under this contract may be made upon the Director pursuant to paragraph (6) of Section 445 of the Code.

ENDORSEMENT #: 19

NAME OF INSURED: Countryside Landfill, Inc.

ADDRESS OF INSURED: 31725 North Route 83
Grayslake, Illinois 60030

POLICY NO.: CPCS01-0017

DATE OF ENDORSEMENT: 09/28/07

Illinois Premium: $348.00
Illinois Surplus Lines Tax: 12.00
Illinois Stamping Fee: 1.00
Illinois Fire Marshall Tax: 0

Effective 09/27/07, it is hereby understood and agreed that this policy's Closure Coverage amount is increased from $3,874,955.00 to $3,985,385.00. Also, this policy's Post-Closure Coverage amount is increased from $4,254,798.00 to $4,380,131.00.

The premium amount charged for this change is $348.15.
The premium tax amount charged on this premium is $12.00.

All other terms and conditions remain unchanged.

Authorized Representative

9/28/07
Date

Coverage for acts of terrorism is included in this policy. Any losses caused by certified acts of terrorism would be partially reimbursed by the United States under a formula established by federal law. Effective January 1, 2006, under this formula, the United States pays 90% (85% in 2007) of the covered terrorism losses exceeding the statutorily established deductible paid by the insurance company providing the coverage. The portion of the above stated premium that is attributable to coverage for acts of terrorism is $0.00.

The reimbursement by the United States is available pursuant to the Terrorism Risk Insurance Extension Act of 2005, which will expire as of December 31, 2007.

The attached has been entered via the Surplus Line Association of Illinois Electronic Filing & Reporting System
Date Entered: 10-11-2007
SLA Countersignature# IL20700888064
Entered By:

k. Document actions/steps taken to address/correct the audit recommendations from the last audit completed by CDM (2005/2006 Audit).

Response: Each of the CDM recommendations contained in the 2005/2006 annual audit report is discussed below.

Water Resource Management

1. The base of the side slopes of the North Expansion Area remains unvegetated from the last audit period. For an extended period over the audit period, this area was left unvegetated and susceptible to erosion. CDM recommends that CLI recommends that CLI implement temporary stormwater control measures to minimize erosion from the disturbed areas if any future delays arise prior to completion of the final cover installation.

Status: Final cover on these areas was installed in Fall 2006. This included seeding and erosion control.

Groundwater Monitoring

2. CDM recommends that CLI consistently report the results of all confirmation sampling to IEPA regardless of whether the confirmation sampling indicates a confirmed increase. This will provide assurance that all observed increases have been adequately addressed.

Status: Confirmation sampling notifications now address all observed increases, whether they are confirmed or not.

Miscellaneous

3. CDM recommends that CLI abandon all inactive subsurface monitoring devices in order to minimize potential sampling/monitoring errors. This includes locating and abandoning piezometer P303 in accordance with the permit.

Status: P303 was 10-foot deep, 2-inch diameter PVC piezometer installed in 1997 and used to monitor the adjacent railroad during initial landfill construction activities. P303 was not part of any regulatory monitoring program. Because of its proximity to the railroad, the piezometer was likely destroyed and buried by ballast placement.

4. CDM recommends that CLI repair the falling bollards surrounding groundwater well G51D.

Status: Bollards around well G51D have been repaired.

5. CDM recommends CLI more evenly distribute the collection of semi-annual samples in the future.

Status: The semi-annual condensate sampling is routinely performed during the months of May and November of each year.

6. During the June 5, 2006 site visit, it was observed that C&D debris was being utilized as a road base material for the South Expansion perimeter road (outside the permitted limits of waste). CDM recommends that CLI contact IEPA to determine the appropriate course of action to resolve this issue.

Status: An application addressing this issue was submitted to IEPA on March 12, 2007. IEPA subsequently approved the use of C&D debris as road base material outside the limits of waste via Modification No. 76, dated April 26, 2007.

7. CDM recommends that additional quality assurance be performed on gas monitoring results to ensure necessary responses are completed in accordance with the applicable permits. Internal (i.e., WMI) or external (e.g., SWANA) training should continue to be reinforced to gas monitoring personnel to ensure an understanding of the applicable regulations.

Status: CLI uses the internal WMI-developed LGMS (Landfill Gas Management System) web-based system for managing and tracking gas monitoring data. The system automatically tracks gas monitoring data and provides email notifications and alerts to site personnel regarding exceedance corrective action deadlines.

8. CDM recommends that CLI supplement their existing Complaint Log to document mud tracking and other road quality related complaints in addition to odor complaints.

Status: The complaint log has been revised to include mud tracking and other road-related complaints.

l. Document that all siting conditions have and continue to be in compliance.

Response: Siting conditions are contained in the resolution adopted by the Lake County Board on October 4, 1994, approving the site location application for the Countryside Landfill expansion.

The resolution contains 17 conditions pertaining to siting Criteria No. 2 (identified as conditions A – Q), one condition pertaining to siting Criteria No. 5 (identified as condition R) and one condition pertaining to siting Criteria No.6 (identified as condition S). Compliance with siting Criteria No. 2 conditions are evaluated annually by the Lake County Health Department. The 2006 and 2007 Criteria 2 siting criteria review reports prepared by the Lake County Health Department are attached.

Condition R states "That a copy of the applicant's emergency contingency plan and safety plan for any disaster, fire, spills or other operational accidents be provided to the Lake County E.S.D.A."

This was provided to the Lake County E.S.D.A in 1995.

Condition S states "That no waste be accepted at the landfill if it is received by railroad."

No waste is delivered to the facility by railroad. There is no infrastructure in place at the facility that would allow waste delivery by rail.

LAKE COUNTY HEALTH DEPARTMENT & COMMUNITY HEALTH CENTER

Environmental Health Services
Solid Waste Unit

COUNTRYSIDE LANDFILL
LOCAL SITING CRITERIA REVIEW
Review Period: January 1 through December 31, 2006
Report Date: June 2007

Purpose: Conditions of approval (siting criteria) were established by the Lake County Board as part of the local siting approval for the Countryside Landfill Inc., (CLI) 1994 expansion. CLI's compliance with these conditions is reviewed annually by the Solid Waste Unit of the Lake County Health Department & Community Health Center (LCHD). The review was conducted on April 24, 2007. Participants included Chris Rubak, Senior Engineer, Mike Hey, Site Manager, both with CLI and Michael Kuhn, Solid Waste Unit Coordinator with the LCHD.

Criteria No. 2(A): The sequence of the landfill expansion shown in Drawings 6-15 of the Application (pp. 1432-1441), shall be modified so that both horizontal expansions and any necessary, related expansions over the side slopes of the existing landfill (provided that such expansions over the side slopes does not result in the deposition of waste around the vertical leachate extraction wells, shown on Drawing 37 of the Application (p. 1453) shall be completed before construction of the vertical expansion above the bottom or base of the existing landfill. In no case shall the sequence of operations be adjusted so as to adversely impact surface water drainage.

Review Status: CLI returned to the sequence of landfill expansion that requires completing the horizontal expansion and any necessary expansion over the side slopes before initiating vertical expansion/overfill atop of the existing landfill. Consent Order #99 CH1052, filed in Circuit Court September 30, 1999, assessed penalties and stipulated a Compliance Plan to address issues related to the vertical expansion that occurred prior to September1998. There are several conditions of the Compliance Plan that CLI is required to meet annually. The status of each condition is as follows:

> **VIII.B.1.** CLI shall comply with all conditions contained in permit No 1994-479-LF, as amended or modified.
>
> **Review Status:** See Criteria No. 2(I).
>
> **VIII.B.2.a.** On an annual basis, CLI will allow the LCHD to collect split sampling from five monitoring wells to be selected by the LCHD for the analysis of the G1 and G2 parameter lists contained in Permit No. 1994-479-LF. CLI will be responsible for the payment of the analytical cost for the five split samples and one trip blank sample. The split sampling shall be performed as long as groundwater monitoring is required at the facility by the Illinois EPA.

Review Status: Split samples were collected on June 1, 2006 from monitoring wells G46D, G48D, G50D at the Countryside Landfill. Samples were also collected from monitoring wells G101 and G102 at the EDCO Landfill instead of split sampling two additional wells at the Countryside Landfill. Samples were analyzed by a private laboratory for the parameters listed on the G1 and G2 lists in CLI's operating permit. CLI results were submitted to the LCHD per VIII.B.2.b. Their findings were similar to the LCHD's results which are attached. CLI paid for the analysis.

VIII.B.2b. CLI shall submit to the LCHD a spreadsheet summary of their quarterly and annual monitoring data, including appropriate statistical analysis, within eight weeks of each sampling event, as long as groundwater monitoring is required at the facility by the Illinois EPA.

Review Status: Monitoring wells were sampled quarterly by CLI during the year. The samples were collected in February, May, August and November 2006. A Compact Disc with 1st quarter results was received April 11, 2006. Results for 2nd, 3rd and 4th quarters were tabulated on spreadsheets which were sent to the LCHD via e-mail on a quarterly basis.

VIII.B.2.c. By December 31 of each year, CLI shall submit, to the LCHD, a topographical map of the landfill at a scale of 1 inch equals 200 feet. CLI shall also submit quarterly certification that indicates whether the existing waste grades are within permitted final grades.

Review Status: A topographic map of the Countryside Landfill at a scale of 1 inch equals 200 feet was sent to the LCHD on August 29, 2006. The LCHD received quarterly waste grade certification letters dated April 10, July 7, and October 9, 2006 and January 9, 2007 for the fourth quarter. Copies of the map cover letter, map legend and waste grade certification letters are attached.

VIII.B.3. CLI will provide the LCHD with a copy of all reports that it provides to the Illinois EPA.

Review Status: The Illinois EPA requires a permitted facility, such as CLI, to provide three copies of each document that it submits to the Agency. One copy is sent to the LCHD.

VIII.B.4. CLI shall complete the installation of the soil-geomembrane layer required by Permit No. 1994-479-LF on or before October 31, 2000.

Review Status: Due to weather delays, the installation of the soil-geomembrane layer was completed in November 2000. Topsoil placement and seeding was completed in the spring of 2001.

Supplemental Environmental Project (SEP): CLI is required to conduct quarterly inspections at the EDCO Landfill for five years.

Review Status: CLI conducted quarterly inspections for the required five-year period which ended on September 30, 2004.

Criteria No. 2(B): All waste placed in the top lift of the existing landfill shall be carefully selected and well compacted to minimize the potential for development of a void in close proximity to the lining system. The surface of the waste at the top of the existing landfill shall be proof rolled before additional waste is placed thereon. A reinforcing geosynthetic material (i.e., geogrid or high strength geotextile) shall be placed in the gas collection layer beneath the lining system that will be placed over the existing landfill to enhance the stability of the lining system.

Review Status: Prior to installation of the temporary liner over the existing site in 2000, required due to the vertical expansion/overfill, the cover soil was graded and proof rolled. The remainder of the criteria, that a reinforcing geosynthetic material shall be placed in the gas collection layer beneath the lining system that will be placed over the existing landfill, is no longer applicable. CLI submitted Permit Application Log No. 2000-070 to the IEPA on February 23, 2000 requesting modification of the gas collection system of the existing landfill and expansion area. The modifications included replacing the permitted horizontal gas collection system with a vertical collection system, eliminating the gas collection layers located beneath the final cover system and existing unit intermediate liner and reconstructing the vertical gas collection system in the existing unit. The Permit Application was approved in Permit Modification No. 25 issued by the IEPA on June 7, 2000.

Criteria No. 2(C): Piezometers shall be installed on both the inside and outside of the perimeter slurry wall, shown on Drawing 36 (p. 1452), to monitor the performance of said slurry wall.

Review Status: Piezometers P203, P205, P207 and P209 are located on the inside of the slurry wall and piezometers P204, P206, P208 and P210 on the outside. A copy of the water level measurements, provided by CLI, is included in the attachments.

Criteria No. 2(D): The drainage ditch along the south boundary of the south expansion area shall be monitored for leachate constituents to ensure that contaminants from the landfill are not draining into the ditch.

Review Status: The run on drainage ditch along the south boundary of the south expansion area will be constructed when Cell 5C construction is completed. CLI stated that the current design of the drainage ditch may be modified to improve water flow and utilization. The current design conveys water to the east which then flows north and around the landfill to the outlet located on the west side of the site. The redesign would convey water in the south section of the ditch to the west and then north to the outlet. The direction of water flow in the east and north section of the ditch will not change. The south run off ditch has been constructed along the south side of Cell 5 and ties into the east run off ditch. The waste grade elevations is Cell 5 are below ground surface

and, as a result, there is no runoff from the landfill into the south run off ditch.

Criteria No. 2(E): A protective zone of at least a six-foot radius shall be provided around each leachate extraction wells shown on Drawing 37 (p. 1453 of the Application). Such wells and protective zones shall be prominently marked to avoid damage by construction activities.

Review Status: Protective zones are not placed around leachate extraction wells unless construction activities pose a risk of them being damaged. The zones in and of themselves interfere with mowing, placement of cover soils and access to the wells for operation and maintenance activities. This past year, constructed activities included the installation of additional gas extraction wells near Cell 4, final cover placement on the north end of the landfill, improvements to the perimeter haul road and general operational and maintenance activities. These activities did not pose a risk to the leachate extraction wells.

Criteria No. 2(F): Gas condensate collected in the condensate traps, shown on Drawing 62 (p. 1640) of the Application, shall be tested semi-annually to verify the composition of the gas condensate constituents. If tests conclude that the condensate is hazardous waste under applicable state regulations, the gas condensate shall not be mixed with leachate for treatment and disposal.

Review Status: Samples of gas condensate were collected from knockouts CK1, CK2 and CK3 on August 11 and from CK2 on December 13, 2006. Knockouts CK1 and CK3 were dry on December 13th. CK1 is located in the southeast corner of the existing site, CK2 is located near the gas burner and CK3 is located in the northwest corner of the existing facility. Based on results, the gas condensate was non-hazardous. A copy of the results is attached.

Criteria No. 2(G): Leachate from the existing landfill and the expansion areas shall be tested separately to determine leachate concentration. If test results indicate that the treatment requirements for each leachate are similar, the leachate may be mixed and treated in a common treatment system. If test results indicate that the treatment requirements for each leachate are not similar, treatment systems for the leachate shall be operated separately and independently.

Review Status: Samples from L101, L102, L103, L104, L106 and L118 were collected on February 21, 2006 and analyzed for the L1 List of parameters. Samples from L101, L102, L103, L104, L105, L106 and L118 were collected on August 28, 2006 and analyzed for the L1 and L2 Lists of parameters. A sample from L118 was collected on August 28, 2006 and analyzed for the L3 list of parameters. A copy of the results is attached. Sample points L101 and L102 are located in expansion Cell 3. Sample points L103 and L104 are located in the existing landfill. Sample points L105 and L106 are located in Cells 4 and 5. Sample point L118 is located at the leachate tanks in the southwest corner of the site. The results show the leachate in the expansion area and existing landfill are similar. In any event, the leachate is not treated on site but trucked to the Kenosha Water Utility Treatment Plant in Wisconsin.

Criteria No. 2(H): The prairie grasses and forbs specified in the Final Cover Plan in the Application (pp. 3789-3800) shall be mowed as needed, but at least annually, and shall not be

burned.

Review Status: CLI contracted with the Landscape Management Company to mow the grass and forbs. The site was mowed in the spring of 2006. A copy of the invoice is attached.

Criteria No. 2(I): The landfill shall be developed and operated in accordance with the Application as modified by these conditions provided that these conditions are not inconsistent with regulations of the IEPA or the terms of any development or operating permit approved by the IEPA.

Review Status During the year, 30 inspections were conducted at Countryside Landfill by the LCHD. No apparent violations were found.

Criteria No. 2(J): Groundwater monitoring wells shall be installed in the unweathered till above the aquifer. The number and location shall be included in the IEPA site development application. A minimum of ten private wells will be included in the monitoring process within a minimum of a two-mile radius of the site, with two collected from the Libertyville Acres subdivision and two from the Bull Creek subdivision. The LCHD will conduct the monitoring. (Modified by the County Administrators Office in July 1997 to read: ten private wells will be included in the monitoring process within a minimum of a two mile radius of the site, with a minimum of four samples collected from the combined subdivisions of Bull Creek, Bull Creek West, Country Club Estates and Wood Hollow).

Review Status: Six monitoring wells are screened in the unweathered till above the aquifer. Monitoring wells G36M, G37M and G40M are located along the north boundary, R28M along the east boundary (G28M was abandoned on May 16, 2006 and replaced with R28M), G31M along the west boundary and G38M along the south boundary. These wells were sampled quarterly and the data were provided to the LCHD per VIII.B.2.b.

During the year, samples were collected from 18 residential wells located within a two-mile radius of the site. Fifteen of the wells were located in the referenced subdivisions. The samples were analyzed for inorganic parameters by the LCHD Laboratory. Nine wells in the referenced area were also analyzed for volatile organic compounds (VOCs). Six of the wells were located in the subdivisions.

Well 062 Rte 83, located southwest of the landfill, had an elevated sulfate level that exceeded the standard of 400 mg/l. The sulfate level has been above the standard since 1997 and is believed to be due to natural causes. Sample 948 LC, located within the subdivision area, contained copper at 1.08 mg/l and lead at 0.01 that exceeded their respective standards of 0.65 mg/l and 0.0075 mg/l. This well will continue to be monitored to determine if the results were an anomaly or if elevated levels continue to be found. No VOCs were detected in any of the well samples.

Sample locations maps and tables summarizing laboratory results from 1997 to 2006 are attached. Inorganic parameters that exceeded standards and past detections of VOCs are outlined on the tables.

Criteria No. 2(K): Before construction of the landfill, subgrade bearing capacity, leachate pipe strength and slope stability must be recalculated on the basis of unit weight of waste being 75 lbs/cy, as opposed to the 60 lbs/cf (1620 lbs/cy) assumption used in the original calculations, and adjusted if necessary.

Review Status: Recalculations were included in CLI's Expansion Permit Application Log No. 1994-479. Three documents referenced from the application provide verification: Bearing Capacity Analysis of In-Place Waste, Appendix VI-A-A- (2), Waste Slope Stability at Intermediate Stages of Facility Development, Appendix VI-A-C(2) and Stresses Applied to the Collector Pipe, Section 4.5.5.1 of Appendix VI-B. This information is on file at the LCHD.

Criteria No. 2(L): Final cover stability should be recalculated, and redesigned if necessary, under saturated conditions to determine stability in worse case scenarios (spring snowmelt conditions).

Review Status: Calculations for final cover stability were submitted to the IEPA in CLI's Expansion Permit Application, Log No. 1994-479. Stability analyses were carried out for short term saturation condition, long-term drainage condition, and infinite slope with seepage force. These analyses can be found in Appendix VI-A-C(3), Stability of Final Cover System (Case IV) of the Application. This information is contained in CLI's permit application to the Illinois EPA which is on file at the LCHD.

Criteria No. 2(M): The side-slope riser pipes in the leachate collection system should be modified to provide for easier insertion of the leachate pumps.

Review Status: Drawing No. 26 of CLI's Expansion Permit Application, Log No. 1994-479, shows the angle of the riser pipe was modified to 45 degrees as opposed to the 90 degree angle proposed in the siting application. The modified riser pipe was installed. This information is contained in CLI's permit application to the Illinois EPA which is on file at the LCHD.

Criteria No. 2(N): Two leachate head wells should be installed, one in the north portion of the site and one in the south portion of the site to more accurately determine the head level for leachate recirculation determinations (said head level is proposed to be 1 foot).

Review Status: The leachate riser pipe, L111, in Cell 2B is used to monitor leachate levels in the north portion of the site. Monitoring well R112 is used to measure leachate levels in the old existing site. A monitoring point will be established in the southwest corner of Cell 5 when leachate recirculation is to begin. The monitoring point will be identified as L113. Currently there is no leachate recirculation at the site.

CLI is required to maintain the leachate level in the existing landfill below the phreatic groundwater elevation in the surrounding soils. Monitoring well R27U, located southeast of the existing landfill is used as a reference point to measure the phreatic groundwater elevation. Based on the data, the phreatic groundwater elevation is above the leachate level in the existing

landfill.

Date Measured	L111	R112	R27U
1st Quarter 2006	Dry	777.53	Frozen
2nd Quarter 2006	Dry	776.28	808.26
3rd Quarter 2006	Dry	776.51	809.20
4th Quarter 2006	Dry	776.17	808.13

Criteria No. 2(O): Approved by and receipt of a permit from the Lake County Storm Water Management Commission for the control of storm water.

Review Status: On March 24, 1997, the Lake County Stormwater Management Commission issued a Watershed Development Permit, No. 94-69-004, to CLI. On January 27, 2005, the Permit was extended for a three years period. A copy is attached.

Criteria No. 2(P): Prior to the applicant's vertical expansion of the landfill, the LCHD shall obtain and assess all monitoring data for the landfill.

Review Status: Due to the vertical filling that occurred prior to 1998, vertical expansion occurred without review of all monitoring data for the landfill. The data will be reviewed before filling in the vertical expansion area over the existing landfill.

Criteria No. 2(Q): That if the monitoring data results are beyond legal or regulatory limits, and if the causes are not adequately corrected, then the Lake County State's Attorney may take appropriate action to enjoin said vertical expansion.

Review Status: Not applicable at this time.

Conclusion: The Siting Criteria conditions appear to have been met for the period of January 1 through December 31, 2006.

Attachments to local siting criteria review report are available at the offices of the Lake County Health Department & Community Health Center, Environmental Health Services, Solid Waste Unit and Countryside Landfill.

LAKE COUNTY HEALTH DEPARTMENT & COMMUNITY HEALTH CENTER

Environmental Health Services
Solid Waste Unit

COUNTRYSIDE LANDFILL
LOCAL SITING CRITERIA REVIEW
Review Period: January 1 through December 31, 2007
May 2008

Purpose: Conditions of approval (siting criteria) were established by the Lake County Board in granting local siting approval for the Countryside Landfill Inc., (CLI) 1994 expansion. CLI's compliance with these conditions is reviewed annually by the Solid Waste Unit of the Lake County Health Department & Community Health Center (LCHD). The review was conducted on May 1, 2008 Participants included Chris Rubak, P.E., Senior Engineer and Mike Hey, Site Manager from CLI and Michael Kuhn, Solid Waste Unit Coordinator with the LCHD.

Criteria No. 2(A): The sequence of the landfill expansion shown in Drawings 6-15 of the Application (pp. 1432-1441), shall be modified so that both horizontal expansions and any necessary, related expansions over the side slopes of the existing landfill (provided that such expansions over the side slopes does not result in the deposition of waste around the vertical leachate extraction wells, shown on Drawing 37 of the Application (p. 1453) shall be completed before construction of the vertical expansion above the bottom or base of the existing landfill. In no case shall the sequence of operations be adjusted so as to adversely impact surface water drainage.

Review Status: CLI returned to the sequence of landfill expansion that requires the horizontal expansion to be completed along with any necessary expansion over the side slopes before initiating vertical expansion over the existing landfill. Consent Order #99 CH1052, filed in Circuit Court September 30, 1999, assessed penalties and stipulated a Compliance Plan to address issues related to the vertical expansion that occurred prior to September1998. The status of conditions stipulated the Compliance Plan is as follows:

> **VIII.B.1.** CLI shall comply with all conditions contained in permit No 1994-479-LF, as amended or modified.
>
> **Review Status:** See Criteria No. 2(I).
>
> **VIII.B.2.a.** On an annual basis, CLI will allow the LCHD to collect split samples from five monitoring wells to be selected by the LCHD for the analysis of the G1 and G2 parameter lists contained in Permit No. 1994-479-LF. CLI will be responsible for the payment of the analytical cost for the five split samples and one trip blank sample. The split sampling shall be performed as long as groundwater monitoring is required at the facility by the Illinois EPA.

Review Status: The LCHD and CLI's contractor Environmental Monitoring and Technology (EMT) collected samples from monitoring wells G46D, G48D, G50D at the Countryside Landfill on May 31, 2007. In lieu of sampling two additional wells at the site, the LCHD sampled monitoring wells G101 and G102 at the adjacent EDCO Landfill on June 1, 2007. The EDCO Landfill is a closed site owned by Waste Management. Samples collected by the LCHD were analyzed by Prairie Analytical Laboratory for the G1 and G2 lists of parameters in CLI's permit. Samples collected by CLI were analyzed by Severns Trent Laboratory (recently acquired by Test America Analytical Testing Corporation). CLI's results were provided to the LCHD in a spreadsheet summarizing 2nd quarter sample results per Section VIII B.2b. The summary spreadsheet contains the most recent results as well as past results for each monitoring well on site. The format of the spreadsheet is not conducive for printing a copy to include with this report. The data is available for review at the LCHD. CLI paid the analytical costs. The LCHD results are attached in Appendix A.

VIII.B.2b. CLI shall submit to the LCHD a spreadsheet summary of their quarterly and annual monitoring data, including appropriate statistical analysis, within eight weeks of each sampling event, as long as groundwater monitoring is required at the facility by the Illinois EPA.

Review Status: Monitoring wells were sampled by CLI's contractor EMT on a quarterly basis. Following each sampling round, CLI recorded the laboratory results for each well to an existing data spreadsheet and e-mailed a copy of the updated version to the LCHD.

VIII.B.2.c. By December 31 of each year, CLI shall submit, to the LCHD, a topographical map of the landfill at a scale of 1 inch equals 200 feet. CLI shall also submit quarterly certification that indicates whether the existing waste grades are within permitted final grades.

Review Status: A topographic map of the Countryside Landfill, drawn at a scale of 1 inch equals 200 feet, was sent to the LCHD on August 23, 2007. The LCHD received quarterly waste grade certification letters dated April 7, July 2 and December 12, 2007 and January 11, 2008 for fourth quarter 2007. The map is on file at the LCHD. Based on the information provided, the facility is within its permitted waste grade elevations. A copy of the cover letter that accompanied the topographic map and waste grade certification letters are attached in Appendix B.

VIII.B.3. CLI will provide the LCHD with a copy of all reports that it provides to the Illinois EPA.

Review Status: The Illinois EPA sends the LCHD a copy of any document it receives from a facility located in Lake County that is regulated by the Bureau of Land. The LCHD asked CLI not to send an additional copy. CLI is required to provide the LCHD with a copy of the groundwater monitoring results per Criteria VIII.B.2.b.

VIII.B.4. CLI shall complete the installation of the soil-geomembrane layer required by Permit No. 1994-479-LF on or before October 31, 2000.

Review Status: Due to weather delays, the installation of the soil-geomembrane layer was not completed until November 2000. Topsoil placement and seeding was completed in the spring of 2001.

Supplemental Environmental Project (SEP): CLI is required to conduct quarterly inspections at the EDCO Landfill for five years.

Review Status: The five year period ended September 30, 2004.

Criteria No. 2(B): All waste placed in the top lift of the existing landfill shall be carefully selected and well compacted to minimize the potential for development of a void in close proximity to the lining system. The surface of the waste at the top of the existing landfill shall be proof rolled before additional waste is placed thereon. A reinforcing geosynthetic material (i.e., geogrid or high strength geotextile) shall be placed in the gas collection layer beneath the lining system that will be placed over the existing landfill to enhance the stability of the lining system.

Review Status: Cover soil over the vertical expansion on the existing site was graded and proof rolled prior to installation of the temporary liner in year 2000. The remainder of the criteria, that a reinforcing geosynthetic material shall be placed in the gas collection layer beneath the lining system that will be placed over the existing landfill, is no longer applicable. CLI submitted Permit Application Log No. 2000-070 to the Illinois EPA on February 23, 2000 requesting modification of the gas collection system of the existing landfill and expansion area. The modifications included replacing the permitted horizontal gas collection system with a vertical collection system, eliminating the gas collection layers located beneath the final cover system and existing unit intermediate liner and reconstructing the vertical gas collection system in the existing unit. The application was approved in Permit Modification No. 25 issued by the IEPA on June 7, 2000.

Criteria No. 2(C): Piezometers shall be installed on both the inside and outside of the perimeter slurry wall, shown on Drawing 36 (p. 1452) to monitor the performance of said slurry wall.

Review Status: Piezometers P203, P205, P207 and P209 are located on the inside of the slurry wall and piezometers P204, P206, P208 and P210 on the outside. The piezometers are paired P203 with P204, P205 with P206, P207 with P208 and P209 with P210. Comparing the depth to groundwater elevation, P205 and P206 elevations were nearly equal. The groundwater elevations for the remaining piezometer pairings showed the groundwater elevations outside of the slurry wall to be higher than the inside elevations. The performance of the slurry wall appears to be functioning as intended. A summary of piezometer measurements is attached in Appendix C.

Criteria No. 2(D): The drainage ditch along the south boundary of the south expansion area shall be monitored for leachate constituents to ensure that contaminants from the landfill are not draining into the ditch.

Review Status: Monitoring of the run on and the run off ditches has not yet begun. The run on drainage ditch along the south boundary of the south expansion area is scheduled to be built after Cell 5C construction is completed. The current design of the run on ditch conveys water east, north and around the landfill to the outlet on the west side of the site. CLI has indicated that the design may be modified to improve water flow and utilization. The redesign would convey water in the south ditch to the west and north to the outlet. The direction of water flow in the east and north section of the ditch will not change. The run off ditch exists along the south side of Cell 5 and connects with the east run off ditch. Waste grade elevations in Cell 5A and B are below the elevation of the run off ditch. Monitoring of the run off ditch is scheduled to begin when waste grade elevations are above the ditch elevation. Monitoring of the south run on ditch is scheduled to begin when the ditch is constructed. The siting criteria is not specific on whether one or both of the ditches are to be monitored or for what parameters.

The Illinois EPA has determined that an NPDES Permit is required to discharge runoff from the site and waste water from truck tire washing. Both are considered non-contaminated stormwater. Any precipitation that comes in contact with the waste is not discharged off site but is collected by the leeachate collection system and trucked off site for treatment at the sewage treatment plant in Kenosha, Wisconsin. Monitoring of the discharge water will begin when the Permit is issued by the Illinois EPA. The monitoring point will be outflow 001 located at the northeast corner of the settling basin on the west side of Route 83. The Avon-Fremont Drainage Ditch is the receiving body for the outflow. Parameters to be monitored are listed in the draft Permit. A copy of the draft NPDES Permit and Public Notice/Fact Sheet is attached in Appendix D.

Criteria No. 2(E): A protective zone of at least a six-foot radius shall be provided around each leachate extraction wells shown on Drawing 37 (p. 1453 of the Application). Such wells and protective zones shall be prominently marked to avoid damage by construction activities.

Review Status: Protective zones are placed around leachate extraction wells when construction activities near the wells pose a risk. There were no construction activities during the year that posed a risk to the extraction wells.

Criteria No. 2(F): Gas condensate collected in the condensate traps, shown on Drawing 62 (p. 1640) of the Application, shall be tested semi-annually to verify the composition of the gas condensate constituents. If tests conclude that the condensate is hazardous waste under applicable state regulations, the gas condensate shall not be mixed with leachate for treatment and disposal.

Review Status: Samples of gas condensate were collected from knockouts CK1, CK2 and CK3 twice during the year, June 1 and November 26, 2007. CK1 is located in the southeast corner of the existing site, CK2 is located near the flare and CK3 is located in the northwest corner of the existing facility. Based on results, the gas condensate is non-hazardous. A copy of the results is

attached in Appendix E.

Criteria No. 2(G): Leachate from the existing landfill and the expansion areas shall be tested separately to determine leachate concentration. If test results indicate that the treatment requirements for each leachate are similar, the leachate may be mixed and treated in a common treatment system. If test results indicate that the treatment requirements for each leachate are not similar, treatment systems for the leachate shall be operated separately and independently.

Review Status: Leachate samples were collected from monitoring points L101, L102, L103, L105, and L118 on February 22, 2007 and analyzed for inorganic constituents. Samples were collected a second time from the same monitoring points plus L106 during August and September 2007 and analyzed for inorganic and well as organic constituents. Although constituents and concentrations detected in the leachate vary between sample locations, the leachate is considered to be similar in composition. The leachate is not treated on site. After being collected by the leachate collection system, it is held in leachate storage tanks until trucked to the sewage treatment plant in Kenosha, Wisconsin. A copy of the laboratory results is attached in Appendix F.

Criteria No. 2(H): The prairie grasses and forbs specified in the Final Cover Plan in the Application (pp. 3789-3800) shall be mowed as needed, but at least annually, and shall not be burned.

Review Status: A receipt for mowing from the Landscape Management Company located in Grayslake, Illinois is attached in Appendix G.

Criteria No. 2(I): The landfill shall be developed and operated in accordance with the Application as modified by these conditions provided that these conditions are not inconsistent with regulations of the IEPA or the terms of any development or operating permit approved by the IEPA.

Review Status During the year, 30 inspections were conducted at Countryside Landfill by the LCHD. The facility was found to be operating in compliance with the permit and applicable state regulations. Copies of the inspections are on file at the LCHD and Illinois EPA Springfield Office.

Criteria No. 2(J): Groundwater monitoring wells shall be installed in the unweathered till above the aquifer. The number and location shall be included in the IEPA site development application. A minimum of ten private wells will be included in the monitoring process within a minimum of a two-mile radius of the site, with two collected from the Libertyville Acres subdivision and two from the Bull Creek subdivision. The LCHD will conduct the monitoring. (Modified by the County Administrators Office in July 1997 to read: ten private wells will be included in the monitoring process within a minimum of a two mile radius of the site, with a minimum of four samples collected from the combined subdivisions of Bull Creek, Bull Creek West, Country Club Estates and Wood Hollow).

Review Status: Six monitoring wells are screened in the unweathered till above the aquifer. Monitoring wells G36M, G37M and G40M are located along the north boundary, R28M along the east boundary (G28M was abandoned on May 16, 2006 and replaced with R28M), G31M along the west boundary and G38M along the south boundary. The wells were sampled quarterly and the data were provided to the LCHD per VIII.B.2.b.

During the year, the LCHD collected samples from 18 residential wells located within a two-mile radius of the site. Two wells were along Route 83, one was along Peterson Road and fifteen were located in the referenced subdivisions. The samples were analyzed for inorganic parameters by the LCHD Laboratory. Ten wells were also analyzed for volatile organic compounds (VOCs) by a private laboratory, Prairie Analytical. The wells sampled for VOC analysis included the two along Route 83, one along Peterson Road and seven located in the referenced subdivisions. The laboratory results did not show evidence of impact on the groundwater quality by the Countryside Landfill as no VOCs were detected in any of the well samples. The concentrations of inorganic parameters identified in the samples are typical for groundwater in Lake County. A copy of the results is attached in Appendix H.

Criteria No. 2(K): Before construction of the landfill, subgrade bearing capacity, leachate pipe strength and slope stability must be recalculated on the basis of unit weight of waste, being 75 lbs/cy, as opposed to the 60 lbs/cf (1620 lbs/cy) assumption used in the original calculations, and adjusted if necessary.

Review Status: Recalculations were included in CLI's Expansion Permit Application Log No. 1994-479. Three documents referenced from the application provide verification: Bearing Capacity Analysis of In-Place Waste, Appendix VI-A-A- (2), Waste Slope Stability at Intermediate Stages of Facility Development, Appendix VI-A-C(2) and Stresses Applied to the Collector Pipe, Section 4.5.5.1 of Appendix VI-B. A copy of the documents is attached in Appendix I.

Criteria No. 2(L): Final cover stability should be recalculated, and redesigned if necessary, under saturated conditions to determine stability in worse case scenarios (spring snowmelt conditions).

Review Status: Calculations for final cover stability were submitted to the IEPA in CLI's Expansion Permit Application, Log No. 1994-479. Stability analyses were carried out for short term saturation condition, long-term drainage condition, and infinite slope with seepage force. These analyses can be found in Appendix VI-A-C(3), Stability of Final Cover System (Case IV) of the Application. A copy of the documents is attached in Appendix J.

Criteria No. 2(M): The side-slope riser pipes in the leachate collection system should be modified to provide for easier insertion of the leachate pumps.

Review Status: Drawing No. 26 of CLI's Expansion Permit Application, Log No. 1994-479, shows the angle of the riser pipe was modified to 45 degrees as opposed to the 90 degree angle proposed in the siting application. The modified riser pipe was installed. The 2 feet by three feet

drawing is not included with this report but it is on file at the LCHD.

Criteria No. 2(N): Two leachate 'head' wells should be installed, one in the north portion of the site and one in the south portion of the site to more accurately determine the head level for leachate recirculation determinations (said head level is proposed to be 1 foot).

Review Status: The leachate riser pipe, L111, in Cell 2B is used to monitor leachate levels in the north portion of the site. Monitoring well R112 is used to measure leachate levels in the old existing site. A monitoring point will be established in the southwest corner of Cell 5 when leachate recirculation is to begin. This monitoring point, identified as L113, has been installed. Currently there is no leachate recirculation at the site.

CLI is required to maintain the leachate level in the existing landfill below the phreatic groundwater elevation in the surrounding soils. Monitoring well R27U, located southeast of the existing landfill, is used as a reference point to measure the phreatic groundwater elevation. Based on the data, the phreatic groundwater elevation is above the leachate level in the landfill.

Date Measured	L111	R112	R27U
1st Quarter 2007	Dry	777.17	806.50
2nd Quarter 2007	Dry	780.10	805.92
3rd Quarter 2007	Dry	781.16	805.09
4th Quarter 2008	Dry	788.80*	804.19

* Obstruction in piezometer, replaced 12/10/07.

Criteria No. 2(O): Approved by and receipt of a permit from the Lake County Storm Water Management Commission for the control of storm water.

Review Status: On March 24, 1997, the Lake County Stormwater Management Commission issued a Watershed Development Permit, No. 94-69-004, to CLI. On January 27, 2005, the Permit was extended for a three years period. The permit expired on January 27, 2008. Correspondence from the Lake County Stormwater Management Commission states that the permit does not have to be renewed if CLI is staying with the current work boundaries of the landfill as described in WDP #94-69-004. A copy of the correspondence is attached in Attachment K.

Criteria No. 2(P): Prior to the applicant' vertical expansion of the landfill, the LCHD shall obtain and assess all monitoring data for the landfill.

Review Status: The vertical filling that occurred prior to 1998, was done without review of the monitoring data. The data will be reviewed before additional waste is placed above the current surface elevation of the existing landfill.

Criteria No. 2(Q): That if the monitoring data results are beyond legal or regulatory limits, and if the causes are not adequately corrected, then the Lake County State's Attorney may take appropriate action to enjoin said vertical expansion.

Review Status: Not applicable at this time.

Review Conclusion: All conditions of the Local Siting Criteria under Criteria 2 appear to have been met for the review period.

Attachments to local siting criteria review report are available at the offices of the Lake County Health Department & Community Health Center, Environmental Health Services, Solid Waste Unit and Countryside Landfill.

m. Status of landscaping installations with regard to applicable permits and agreements.

Response: Landscape installations are completed once an area has reached its final grade and subsequent final cover has been installed. In 2006, an eight acre area of the north expansion reached final grade and final cover was constructed. Landscape additions, including tree and shrub plantings, were made to this eight acre area in the fall of 2006. A four acre area on the west side of the north expansion has reached final grade and final cover has been constructed. This area will be seeded with grasses in the fall of 2008 with tree and shrub additions planned for 2009.

A landscape contractor inspects plant installations on a regular basis. Plantings that have failed are replaced on an as-needed basis.

n. Summary of the IEPA and Lake County Health Department Inspection dates, violations, odor complaints, compliance advisories and other corrective actions for calendar years 2006 and 2007.

Response: A summary of 2006 and 2007 Lake County Health Department inspection dates are summarized on Tables 24 and 25, respectively. During 2006 and 2007, there were no inspections performed by IEPA. In addition, during 2007 and 2007 there were (1) no violations received; (2) three odor complaints received by the Lake County Health Department; and (3) no compliance advisories received.

The three odor complaints where received on December 18, 2006, July 31, 2007 and August 17, 2007. These were responded to by first investigating the source followed by appropriate corrective measures. Investigation of the December 18, 2006 complaint found the source of the odor was due to the practice of early morning ripping of the intended fill area for that day. Such ripping is done to loosen compacted daily cover soils so as to produce a better refuse to refuse contact between previously placed refuse and newly placed refuse. In this instance, the ripping was performed in an area in close proximity to the adjacent train station and this practice was stopped when it was found to cause offsite odors. The July 31, 2007 and August 17, 2007 complaints were found to be associated with Subcell Cell 5C construction activities and flooding of the project area due to heavy rainfall. These complaints were responded to by continued pumping of rainwater and completion of cell construction. A letter was sent to affected neighbors explaining the conditions leading to the odors and the proposed corrective measures.

Table 24
2006 Regulatory Inspections
Countryside Landfill

Date	Regulatory Agency
January 10	Lake County Health Department
January 26	Lake County Health Department
February 7	Lake County Health Department
February 15	Lake County Health Department
March 3	Lake County Health Department
March 14	Lake County Health Department
March 29	Lake County Health Department
April 10	Lake County Health Department
April 17	Lake County Health Department
May 5	Lake County Health Department
May 18	Lake County Health Department
June 1	Lake County Health Department
June 6	Lake County Health Department
July 12	Lake County Health Department
July 18	Lake County Health Department
August 2	Lake County Health Department
August 16	Lake County Health Department
September 7	Lake County Health Department
September 20	Lake County Health Department
October 11	Lake County Health Department
October 25	Lake County Health Department
October 31	Lake County Health Department
November 3	Lake County Health Department
November 29	Lake County Health Department
December 8	Lake County Health Department
December 27	Lake County Health Department

Table 25
2007 Regulatory Inspections
Countryside Landfill

Date	Regulatory Agency
January 9	Lake County Health Department
January 17	Lake County Health Department
January 30	Lake County Health Department
February 20	Lake County Health Department
February 22	Lake County Health Department
March 9	Lake County Health Department
March 22	Lake County Health Department
March 27	Lake County Health Department
April 12	Lake County Health Department
April 27	Lake County Health Department
May 22	Lake County Health Department
May 24	Lake County Health Department
May 31	Lake County Health Department
June 1	Lake County Health Department
June 18	Lake County Health Department
June 29	Lake County Health Department
July 18	Lake County Health Department
July 26	Lake County Health Department
August 14	Lake County Health Department
August 28	Lake County Health Department
August 31	Lake County Health Department
September 5	Lake County Health Department
September 12	Lake County Health Department
September 21	Lake County Health Department
October 4	Lake County Health Department
October 30	Lake County Health Department
November 13	Lake County Health Department
November 27	Lake County Health Department
December 12	Lake County Health Department
December 31	Lake County Health Department

o. Summary of citizen complaints, the nature of the complaints and how they were responded to.

Response: During 2006 and 2007, no citizen complaints for litter, dust or mud tracking were received. A summary of citizen complaints for odor received in 2006 and 2007 is summarized on Table 26. All complaints are investigated immediately by facility personnel and appropriate corrective measures implemented.

Table 26
Summary of 2006 & 2007 Odor Complaints
Countryside Landfill

Month	2006	2007
January	2	1
February	4	0
March	0	2
April	1	0
May	2	1
June	0	2
July	1	3
August	0	2
September	1	7
October	0	3
November	0	2
December	2	0
Total	13	23

p. Summarize the overall compliance status of the facility with all required permits currently in effect. Document compliance issues and actions/steps taken to address/resolve these compliance issues.

Response: For the facility during 2006 and 2007, there were no compliance issues with any regulatory agency.

TAB 6

6. HOST AGREEMENT COMPLIANCE DATA

a. Provide evidence of scale certifications in accordance with state law.

Response: See attached scale certifications submitted to IEPA.

b. Document the total amount paid in host fees under each applicable host agreement, (all host, not just SWALCO) including the total waste amount, the per ton fee amount and total fees paid in 2006 and 2007.

Response: The total amount paid in host fees in 2006 and 2007 is summarized on Tables 27 and 28, respectively.

c. Provide Auditor Certification that the rate charged for the Participating Community Waste complies with the most Favored Nation provisions of the SWALCO Agreement.

Response: During the 2006 and 2007, waste has not been delivered to the landfill by or on behalf of SWALCO. Therefore the Favored Nations provision does not apply.

d. Provide evidence of insurance meeting the requirements of the SWALCO Agreement and the Host Community Agreement.

Response: See attached certificates of insurance that comply with the requirements of the agreement.

WASTE MANAGEMENT

WASTE MANAGEMENT
31725 N. Rte. 83
Grayslake, IL 60030
(847) 223-2722
(847) 223-3188 Fax

May 8, 2006

Kevin Mably
Financial Management Unit
Planning & Reporting Section, Bureau of Land
Illinois Environmental Protection Agency
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Re: 0970250003 – Lake County
Countryside Landfill
Scale Certification

Dear Mr. Mably:

In response to your May 2, 2006 correspondence regarding scale certifications for the above referenced facility, please find attached the following:

- A copy of an Illinois Department of Agriculture scale test report dated December 22, 2005 for the inbound scale at the facility (certification no. 5946); and
- A copy of an Illinois Department of Agriculture scale test report dated December 22, 2005 for the outbound scale at the facility (certification no. 5945).

If you have any questions, please do not hesitate to contact me at (847) 223-9282.

Sincerely,

Waste Management

Christopher G. Rubak, P.E.
Senior Engineer

Attachments

Illinois Department of Agriculture

Bureau of Weights and Measures
P.O. Box 19281 - State Fairgrounds
Springfield, IL 62794-9281
217/785-8301 | In Illinois 800/582-0468
TTY 217/524-6858 | Fax 217/524-7801

[redacted] REPORT
[redacted] CAPACITY SCALES

BUSINESS NO. [redacted]

APPROVED DEVICE

CERTIFICATION NO. 5945

[redacted]

MARKING REQUIREMENTS - SCALE INDICATOR

INVOICE CODE (SEE TABLE)	[redacted]
DEVICE CODE	[redacted]
MANUFACTURER	[redacted]
MODEL NO.	[redacted]
SERIAL NO.	[redacted]
CLASS (1=III, 2=IIIL, 3=IIIL)	[redacted]
NOMINAL CAPACITY (LBS.)	[redacted]
VALUE OF DIVISIONS (LBS.)	[redacted]

RETEST
X NO [redacted] YES

TYPE OF SCALE

VEHICLE	HOPPER
[redacted] PIT	[redacted] DRY
[redacted] LOW PROFILE	[redacted] LIQUID
	[redacted] GRAIN HOPPER
[redacted] STATE POLICE	[redacted] FERTILIZER
[redacted] FIXED AXLE	
	[redacted] ADD'L READOUT
[redacted] ASPHALT	[redacted] BELT CONVEYOR
[redacted] AGGREGATE	[redacted] FLOOR SCALE

TYPE OF RECORDER
X DIGITAL [redacted] DIAL
[redacted] BEAM [redacted] OTHER

DECK CONDITION
X ACCEPTABLE [redacted] NOT ACCEPTABLE

INTERFERENCE FOUND

RFI	EMI
X NO	X NO
[redacted] YES	[redacted] YES

[redacted] **NUMBER OF SCALE SECTIONS**

[redacted] **BEGINNING SECTION NUMBER**

[redacted] **TOLERANCE STANDARD (A/M)**

INCREASING LOAD & SHIFT TEST (LBS.)

SECTION NUMBER	LOAD APPLIED	SCALE READING	ERROR (+/-)	T
1	5000	[redacted]	-20	Y
	9000		0	Y
	13000		0	Y
	9000		0	Y
	13000		0	Y
	17000		0	Y
	21000		0	Y
	25000		-20	Y
2	13000		0	Y
	25000		0	Y
3	13000		0	Y
	25000		20	Y
4	13000		0	Y
	25000		0	Y
5	13000		20	Y
	25000		40	Y

STRAIN LOAD TEST (LBS.)*
CHECK IF NOT APPLICABLE → [redacted]

TRUCK WEIGHT	TEST WEIGHT	SCALE TOTAL	SCALE READING	ERROR (+/-)
[redacted]	25000	55120	[redacted]	0

DECREASING LOAD TEST (LBS.)
CHECK IF NOT APPLICABLE → [redacted]

SECTION NUMBER	LOAD APPLIED FROM	TO	SCALE READING	ERROR (+/-)
1	13000	9000	9000	0

DISCRIMINATION / SENSITIVITY TEST
(LBS.)
ENVIRONMENTAL FACTORS PERMIT TEST? YES [redacted] NO X

MINIMUM LOAD WEIGHT APPLIED		MAXIMUM LOAD WEIGHT APPLIED	
FROM	TO	FROM	TO

ZERO LOAD BALANCE TEST
(LBS.)

FROM	TO	SCALE READING	ERROR (+/-)
25000	0	[redacted]	0

SCALE BALANCED UPON ARRIVAL?
X YES [redacted] NO [redacted] N/A

DEVICE FOUND SEALED UPON ARRIVAL?
X YES [redacted] NO [redacted] N/A

APPROACHES MEET HB 44 REQUIREMENTS?
X YES [redacted] NO [redacted] N/A

NEW SCALES ONLY:
[redacted] INCHES CLEARANCE FROM BOTTOM OF I-BEAM TO THE TOP OF THE FLOOR

INSPECTION RESULTS:
THIS DEVICE HAS BEEN FOUND TO MEET ALL SPECIFICATIONS AND TOLERANCES OF THE STATE OF ILLINOIS.

*STRAIN LOAD TOLERANCE BASED UPON CALIBRATED TEST WEIGHT INDICATED

INSPECTOR COMMENTS
[redacted]

Biggs	#014	12/22/2005
INSPECTOR NAME	BADGE	DATE

Illinois Department of Agriculture

Bureau of Weights and Measures
P.O. Box 19281 - State Fairgrounds
Springfield, IL 62794-9281
217-785-8301 | In Illinois: 800/582-0468
TTY 217/524-6858 | Fax 217/524-7801

RENAME

ILLINOIS SCALE TEST REPORT
LARGE CAPACITY SCALES

BUSINESS NO. [redacted] ***APPROVED DEVICE*** **CERTIFICATION NO.** [redacted]

[redacted]

MARKING REQUIREMENTS - SCALE INDICATOR

INVOICE CODE (SEE TABLE)	[redacted]
DEVICE CODE	
MANUFACTURER	
MODEL NO.	
SERIAL NO.	
CLASS (1=III, 2=IIII, 3=IIIL)	
NOMINAL CAPACITY (LBS.)	
VALUE OF DIVISIONS (LBS.)	

RETEST
X NO [redacted] YES

TYPE OF SCALE

VEHICLE	HOPPER
[redacted] PIT	[redacted] DRY
[redacted] LOW PROFILE	[redacted] LIQUID
	[redacted] GRAIN HOPPER
[redacted] STATE POLICE	[redacted] FERTILIZER
[redacted] FIXED AXLE	
	[redacted] ADD'L READOUT
[redacted] ASPHALT	[redacted] BELT CONVEYOR
[redacted] AGGREGATE	[redacted] FLOOR SCALE

TYPE OF RECORDER
X DIGITAL [redacted] DIAL
[redacted] BEAM [redacted] OTHER

DECK CONDITION
X ACCEPTABLE [redacted] NOT ACCEPTABLE

INTERFERENCE FOUND

RFI	EMI
X NO	X NO
[redacted] YES	[redacted] YES

[redacted] **NUMBER OF SCALE SECTIONS**

[redacted] **BEGINNING SECTION NUMBER**

[redacted] **TOLERANCE STANDARD (A/M)**

INCREASING LOAD & SHIFT TEST (LBS.)

SECTION NUMBER	LOAD APPLIED	SCALE READING	ERROR (+/-)	I
4	5000	[redacted]	0	Y
	9000		20	Y
	13000		40	Y
	9000		20	Y
	13000		40	Y
	17000		40	Y
	21000		40	Y
	25000		40	Y
3	13000		20	Y
	25000		40	Y
2	13000		0	Y
	25000		0	Y
1	13000		0	Y
	25000		0	Y

STRAIN LOAD TEST (LBS.)*
CHECK IF NOT APPLICABLE [redacted]

TRUCK WEIGHT	TEST WEIGHT	SCALE TOTAL	SCALE READING	ERROR (+/-)
[redacted]	25000	55180	[redacted]	0

DECREASING LOAD TEST (LBS.)
CHECK IF NOT APPLICABLE [redacted]

SECTION NUMBER	LOAD APPLIED FROM	TO	SCALE READING	ERROR (+/-)
4	13000	9000	9020	20

DISCRIMINATION / SENSITIVITY TEST
(LBS.)
ENVIRONMENTAL FACTORS FORMAT TEST?
YES [redacted] NO X

MINIMUM LOAD WEIGHT APPLIED		MAXIMUM LOAD WEIGHT APPLIED	
FROM	TO	FROM	TO

ZERO LOAD BALANCE TEST
(LBS.)

FROM	TO	SCALE READING	ERROR (+/-)
25000	0	[redacted]	20

SCALE BALANCED UPON ARRIVAL?
X YES [redacted] NO [redacted] N/A

DEVICE FOUND SEALED UPON ARRIVAL?
X YES [redacted] NO [redacted] N/A

APPROACHES MEET HB 44 REQUIREMENTS?
X YES [redacted] NO [redacted] N/A

NEW SCALES ONLY:
[redacted] INCHES CLEARANCE FROM BOTTOM OF I-BEAM TO THE TOP OF THE FLOOR

INSPECTION RESULTS:
THIS DEVICE HAS BEEN FOUND TO MEET ALL SPECIFICATIONS AND TOLERANCES OF THE STATE OF ILLINOIS.

*STRAIN LOAD TOLERANCE BASED UPON CALIBRATED TEST WEIGHT INDICATED

INSPECTOR COMMENTS
[redacted]

Biggs	#014	12/22/2005
INSPECTOR NAME	NUMBER	DATE

[redacted]

WASTE MANAGEMENT

WASTE MANAGEMENT
31725 N. Rte. 83
Grayslake, IL 60030
(847) 223-2722
(847) 223-3188 Fax

August 3, 2007

Kevin Mably
Financial Management Unit
Planning & Reporting Section, Bureau of Land
Illinois Environmental Protection Agency
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Re: 0970250003 – Lake County
Countryside Landfill
Scale Certification

Dear Mr. Mably:

In response to your June 5, 2007 correspondence regarding scale certifications for the above referenced facility, please find attached the following:

- A copy of an Illinois Department of Agriculture scale test report dated November 29, 2006 for the inbound scale at the facility; and
- A copy of an Illinois Department of Agriculture scale test report dated November 29, 2006 and follow-up placed-in-service report for the outbound scale at the facility.

If you have any questions, please do not hesitate to contact me at (847) 223-9282.

Sincerely,

Waste Management

Christopher G. Rubak, P.E.
Senior Engineer

Attachments

Illinois Department of Agriculture
Bureau of Weights and Measures
P.O. Box 19281 - Springfield, IL 62794-9281
Toll Free: 800 582-0468, Tele: 217 785-8301, Fax: 217 524-7801

Device Detail

Insp Date: 11/29/2006 **Business ID:** 09721615 **Inspection:** 7D000539
Business: COUNTRYSIDE LANDFILL **Store #:**
31725 N RT 83 **Phone:** 847.223.2722
Inspector: 7D David Biggs
GRAYSLAKE, IL 60030 **Reason:** Annual

Make: FAIRBANKS SC **Type:** Large Scale **Results:** Certified
Model: IND-R2500-AF1 **Subtype:** 4 Sect Scale **Decal #:** 25809
Serial: 052090050026 **Insp Type:** Maintenance **COC #:**
Subpart: 01-42 VEH **Loc:** Inbound
Capacity: 120000 **Units:** lb **d:** 20
Class: IIIL **Indicator Type:** Digital **Scale Type:** Pit
Scale Sections: 4 **Starting Section:** 1 **Scale Clearance:**
Retest: N **New Device:** N

Type	Name	Display	Inc/Base	Actual	Err	Tol	Res	Notes
Test	Zero	0	0	0	0	20	Pass	
Test	Increasing Load	5020	5000	5000	20	20	Pass	
Test	Increasing Load	9000	4000	9000	0	20	Pass	
Test	Increasing Load	13000	4000	13000	0	40	Pass	
Test	Decreasing Load	9000	-4000	9000	0	20	Pass	
Test	Increasing Load	13000	4000	13000	0	40	Pass	
Test	Shift	13000	0	13000	0	40	Pass	S1
Test	Shift	13020	0	13000	20	40	Pass	S2
Test	Shift	13000	0	13000	0	40	Pass	S3
Test	Shift	13000	0	13000	0	40	Pass	S4
Test	Shift Range		0	13000	20	40	Pass	
Test	Increasing Load	17020	4000	17000	20	40	Pass	
Test	Increasing Load	21020	4000	21000	20	60	Pass	
Test	Increasing Load	25000	4000	25000	0	60	Pass	
Test	Shift	25000	0	25000	0	60	Pass	S1
Test	Shift	25040	0	25000	40	60	Pass	S2
Test	Shift	25020	0	25000	20	60	Pass	S3
Test	Shift	25020	0	25000	20	60	Pass	S4
Test	Shift Range		0	25000	40	60	Pass	
Test	Strain	55340	30320	25000	20	60	Pass	

Fee: $186.00
Notes:

Official

Acknowledged Receipt:

Illinois Department of Agriculture
Bureau of Weights and Measures
P.O. Box 19281 - Springfield, IL 62794-9281
Toll Free: 800 582-0468, Tele: 217 785-8301, Fax: 217 524-7801

Device Detail

Insp Date: 11/29/2006 **Business ID:** 09721615 **Inspection:** 7D000539
Business: COUNTRYSIDE LANDFILL **Store #:**
31725 N RT 83 **Phone:** 847.223.2722
Inspector: 7D David Biggs
GRAYSLAKE, IL 60030 **Reason:** Annual

Make: FAIRBANKS SC **Type:** Large Scale **Results:** Rejected
Model: INDR2500-1 **Subtype:** 5 Sect Scale **Decal #:** REJECTED
Serial: H370387LF **Insp Type:** Maintenance **COC #:**
Subpart: 01-42 VEH **Loc:** Outbound
Capacity: 120000 **Units:** lb **d:** 20
Class: IIIL **Indicator Type:** Digital **Scale Type:** Pit
Scale Sections: 5 **Starting Section:** 5 **Scale Clearance:**
Retest: N **New Device:** N

Type	Name	Display	Inc/Base	Actual	Err	Tol	Res	Notes
Test	Zero	0	0	0	0	20	Pass	
Test	Increasing Load	5000	5000	5000	0	20	Pass	S5
Test	Increasing Load	9020	4000	9000	20	20	Pass	
Test	Increasing Load	13020	4000	13000	20	40	Pass	
Test	Decreasing Load	9020	-4000	9000	20	20	Pass	
Test	Increasing Load	13020	4000	13000	20	40	Pass	
Test	Shift	13020	0	13000	20	40	Pass	S5
Test	Shift	13020	0	13000	20	40	Pass	S4
Test	Shift	13040	0	13000	40	40	Pass	S3
Test	Shift	13020	0	13000	20	40	Pass	S2
Test	Shift	13040	0	13000	40	40	Pass	S1
Test	Shift Range		0	13000	20	40	Pass	
Test	Increasing Load	17040	4000	17000	40	40	Pass	S5
Test	Increasing Load	21040	4000	21000	40	60	Pass	
Test	Increasing Load	25060	4000	25000	60	60	Pass	
Test	Shift	25060	0	25000	60	60	Pass	S5
Test	Shift	25040	0	25000	40	60	Pass	S4
Test	Shift	25100	0	25000	100	60	Fail	S3
Test	Shift	25060	0	25000	60	60	Pass	S2
Test	Shift	25100	0	25000	100	60	Fail	S1
Test	Shift Range		0	25000	60	60	Pass	

Fee: $186.00
Notes:

Official

Acknowledged Receipt:

Illinois Department of Agriculture
Bureau of Weights and Measures
P.O. Box 19281 - Springfield, IL 62794-9281
Toll Free: 800 582-0468, Tele: 217 785-8301, Fax: 217 524-7801

Device Detail

Inspectors from the Illinois Department of Agriculture, Bureau of Weights and Measures inspected and tested your device(s) and found said device(s) do not meet either a specification or tolerance requirement of the State of Illinois.
Rejection tag(s) have been placed on this device(s).
A REJECTION TAG is placed on a device when the device is either found to be out of tolerance or does not meet a specification requirement. The device must be taken immediately out of service until the necessary repairs have been made.
IT IS THE RESPONSIBILITY OF THE SERVICE PERSON WHO REPAIRS YOUR DEVICE(S) TO NOTIFY THIS OFFICE OF WHEN THE REPAIRS HAVE BEEN MADE.
A service person may place the device into service and the device may be used until an official inspection is performed by our Department.
Our Department has available a current listing of all registered scale and meter companies.

Any person who violates the provisions of the Weights and Measures Act shall be deemed guilty of a business offense and subject to a fine of at least $500.

Official

Acknowledged Receipt:

Return to: Illinois Department of Agriculture
Bureau of Weights and Measures
State Fairgrounds, P.O. Box 19281
Springfield, IL 62794-9281

ILLINOIS PLACED IN SERVICE REPORT
LARGE CAPACITY SCALES
2001 LBS. +

DISTRIBUTION: White – W & M Office copy
Canary – W & M Inspector
Pink – Device owner's Copy
Goldenrod – Service Person Copy

Complete all information

Name Countryside Landfill
Address 31725 N RT 83
City Grayslake
County Lake
Phone Number 8477223722

REASON FOR PLACED-IN-SERVICE? (Mark all that apply)
REJ./COND. ✓
NEW (AT LOCATION) ____
MAJOR OVERHAUL ____

Business no.: 0972616/5

NOTE: IF SERVICE WORK IS BEING DONE BECAUSE OF A REJECTED OR CONDEMNED TAG, PLEASE INCLUDE BUSINESS NUMBER FROM TAG OR STATE TEST REPORT

Service Person Decal Number: 360155

INCREASING LOAD & SHIFT TEST (LBS.)

MARKING REQUIREMENTS - SCALE INDICATOR

MANUFACTURER: Fairbanks
MODEL NO: 2500
SERIAL NO: H370387
NOMINAL CAPACITY (LBS.): 120,000
VALUE OF DIVISIONS (LBS.): 20
USED CAPACITY (LBS.): 80,000
SCALE SIZE (W x L): 10 x 70

TYPE OF RECORDER
✓ DIGITAL ____ DIAL
____ BEAM ____ OTHER

TYPE OF SCALE NEW? YES NO

VEHICLE
✓ PIT
____ LOW PROFILE
____ TEMPORARY
____ FIXED AXLE
____ BELT CONVEYOR
____ FLOOR SCALE

HOPPER
____ DRY
____ LIQUID
____ GRAIN HOPPER
____ FERTILIZER
____ VERT. BLENDER
____ HOPPER
____ ASPHALT
____ AGGREGATE

SECTION NUMBER	LOAD APPLIED	SCALE READING	ERROR (+/-)
1	5000	5000	0
	9000	9000	
	13000	13000	
	9000	9000	
	13000	13000	
	17000	17000	
	21000	21000	
	25000	25000	
2	13000	13000	
	25000	25000	
3	13000	13000	
	25000	25000	
4	13000	13000	
	25000	25000	
5	13000	13000	
	25000	25000	

FOR ALL REPLACEMENTS

INDICATOR:
MANUFACTURER: ____
MODEL NO: ____
SERIAL NO: ____
C.O.C. #: ____
N Max: ____

LOAD CELLS:
MANUFACTURER: ____
MODEL NO: ____
SERIAL NO: ____
C.O.C. #: ____
N Max: ____

WEIGHBRIDGE:
MANUFACTURER: ____
MODEL NO: ____
SERIAL NO: ____
C.O.C. #: ____
CAPACITY(LBS.): ____

OTHER:
MANUFACTURER: ____
MODEL NO: ____
SERIAL NO: ____
C.O.C.#: ____
CAPACITY (LBS.): ____

* REMOTE INDICATOR / SCOREBOARD
YES ____ NO ✓
IF YES, IS IT ACCURATE? YES ____

IS SCALE USED FOR POLICE ENFORCEMENT OF HIGHWAY WEIGHT LAWS?
YES ____ NO ✓

IS DEVICE SEALED? YES ✓ NO ____

STRAIN LOAD TEST (LBS.) *
CHECK IF NOT APPLICABLE → ____

TRUCK WEIGHT	TEST WEIGHT	TOTAL	SCALE READING	ERROR (+/-)
29800	25000	54800	54820	+20

2005
LAST DATE OF WEIGHT CALIBRATION

FOR ALL SCALES:

1. Does the installation meet all specifications and tolerances of the Illinois Weights and Measures Act and NIST HB44? Yes ✓ No ____
2. Is Equipment rebuilt? Yes ____ No ✓

Describe any adjustments made Sections

NEW VEHICLES SCALES

1. Is the floor of the pit constructed with suitable drainage? Yes ____ No ____
2. Do the approaches conform to NIST HB44? Yes ____ No ____
3. ____ INCHES OF CLEARANCE FROM BOTTOM OF I-BEAM TO THE TOP OF THE CONCRETE FLOOR.
4. ____ FEET OF CLEARANCE AROUND THE SIDES OF A PITLESS SCALE
5. IF PORTABLE / TEMPORARY, WHAT IS THE SCALE USE? ____

SPECIAL NOTICE
This form will allow the temporary commercial use of the device described herein, pending its official inspection, when countersigned by the owner or user of the device.

SIGNED: P. L. Cichy
OWNER OR USER

[redacted] David Hurcomb 2556 11/29/06
SERVICE PERSON NAME REGISTRATION NUMBER DATE

All-Rd Measurement 11/29/06
SERVICE COMPANY REGISTRATION NUMBER DATE

IMPORTANT NOTICE The state agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under 815ILCS 370/1. Failure to provide this information shall prevent this form from being processed. This form has been approved by the State Forms Management Center (IL406-1400) (Rev. 11-02)

NOTE FAILURE TO PROVIDE COMPLETE AND ACCURATE INFORMATION WILL RESULT IN A NON-COMPLIANCE REPORT. RETURN OF THIS FORM AND POSSIBLY AN ADMINISTRATIVE HEARING

Table 27
2006 Host Fees Paid
Countryside Landfill

Month	Waste Received (tons)	Waste Received (gate cubic yards)	SWALCO Host Fee ($2.15/ton) Paid Monthly	Grayslake Host Fee ($2.15/ton) Paid Quarterly	Liberty Prairie Conservancy Host Fee ($0.30/gcy) Paid Quarterly	Round Lake Park Host Fee ($5,000/month) Paid Quarterly	Hainesville Host Fee ($5,000/year)
January	33,708.16	130,821	$72,472.54	$72,472.54	$39,246.30	$5,000.00	---
February	26,497.40	112,010	$56,969.41	$56,969.41	$33,603.00	$5,000.00	---
March	34,972.65	140,665	$75,191.20	$75,191.20	$42,199.50	$5,000.00	---
April	41,022.80	144,604	$88,199.02	$88,199.02	$43,381.20	$5,000.00	---
May	44,560.20	156,743	$95,804.43	$95,804.43	$47,022.90	$5,000.00	---
June	50,270.12	162,545	$108,080.76	$108,080.76	$48,763.50	$5,000.00	---
July	36,608.48	136,057	$78,708.23	$78,708.23	$40,817.10	$5,000.00	$5,000.00
August	41,224.65	154,061	$88,633.00	$88,633.00	$46,218.30	$5,000.00	---
September	41,399.21	143,697	$89,008.30	$89,008.30	$43,109.10	$5,000.00	---
October	37,021.14	144,917	$79,595.45	$79,595.45	$43,475.10	$5,000.00	---
November	39,751.27	145,289	$85,465.23	$85,465.23	$43,586.70	$5,000.00	---
December	32,628.47	121,865	$70,151.21	$70,151.21	$36,559.50	$5,000.00	---
Total	459,664.55	1,693,274	$988,278.78	$988,278.78	$507,982.20	$60,000.00	$5,000.00

Total host fees paid in 2006: $2,549,539.77

Table 28
2007 Host Fees Paid
Countryside Landfill

Month	Waste Received (tons)	Waste Received (gate cubic yards)	SWALCO Host Fee* Paid Monthly	Grayslake Host Fee ($2.15/ton) Paid Quarterly	Liberty Prairie Conservancy Host Fee ($0.30/gcy) Paid Quarterly	Round Lake Park Host Fee ($5,000/month) Paid Quaterly	Hainesville Host Fee ($5,000/year)
January	31,844.41	126,634	$68,465.48	$68,465.48	$37,990.20	$5,000.00	---
February	26,861.82	106,335	$57,752.91	$57,752.91	$31,900.50	$5,000.00	---
March	47,782.01	145,426	$102,731.32	$102,731.32	$43,627.80	$5,000.00	---
April	45,323.91	143,201	$97,446.41	$97,446.41	$42,960.30	$5,000.00	---
May	68,460.66	179,800	$157,459.52	$147,190.42	$53,940.00	$5,000.00	---
June	55,064.73	160,070	$126,648.88	$118,389.17	$48,021.00	$5,000.00	---
July	55,748.98	164,534	$128,222.65	$119,860.31	$49,360.20	$5,000.00	$5,000.00
August	50,286.78	161,628	$115,659.59	$108,116.58	$48,488.40	$5,000.00	---
September	39,829.06	139,452	$91,606.84	$85,632.48	$41,835.60	$5,000.00	---
October	46,532.89	154,822	$107,025.65	$100,045.71	$46,446.60	$5,000.00	---
November	51,664.75	151,440	$118,828.93	$111,079.21	$45,432.00	$5,000.00	---
December	33,066.16	118,036	$76,052.17	$71,092.25	$35,410.80	$5,000.00	---
Total	552,466.16	1,751,378	$1,247,900.35	$1,187,802.25	$525,413.40	$60,000.00	$5,000.00

* SWALCO Host fee was $2.15/ton for January - April and $2.30/ton for May - December.

Total host fees paid in 2007: $3,026,116.00

ACORD. CERTIFICATE OF LIABILITY INSURANCE

1/1/2009

DATE (MM/DD/YYYY) 7/1/2008

PRODUCER
LOCKTON COMPANIES, LLC
5847 SAN FELIPE, SUITE 320
HOUSTON TX 77057
866-260-3538

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED
1300299 WASTE MANAGEMENT HOLDINGS, INC. & ALL AFFILIATED, RELATED & SUBSIDIARY COMPANIES INCLUDING: COUNTRYSIDE LANDFILL, INC.
31725 NORTH ROUTE 83
GRAYSLAKE IL 60030

INSURERS AFFORDING COVERAGE	NAIC #
INSURER A: ACE American Insurance Company	22667
INSURER B: Indemnity Insurance Co of North America	43575
INSURER C:	
INSURER D:	
INSURER E:	

COVERAGES AJ

THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	ADD'L INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A		GENERAL LIABILITY X COMMERCIAL GENERAL LIABILITY CLAIMS MADE X OCCUR X XCU INCLUDED X ISO CG 00 11 07 GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT X LOC	HDO G23736767	07/01/2008	07/01/2009	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 5,000,000 $ 5,000,000 $ XXXXXXX $ 5,000,000 $ 6,000,000 $ 6,000,000
A		AUTOMOBILE LIABILITY X ANY AUTO X ALL OWNED AUTOS SCHEDULED AUTOS X HIRED AUTOS X NON-OWNED AUTOS X VICS-30	ISA H08240395	07/01/2008	07/01/2009	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ XXXXXXX $ XXXXXXX $ XXXXXXX
		GARAGE LIABILITY ANY AUTO	NOT APPLICABLE			AUTO ONLY - EA ACCIDENT OTHER THAN AUTO ONLY: EA ACC AGG	$ XXXXXXX $ XXXXXXX $ XXXXXXX
A		EXCESS/UMBRELLA LIABILITY X OCCUR CLAIMS MADE DEDUCTIBLE X UMBRELLA FORM RETENTION $	XOOG23889389	07/01/2008	07/01/2009	EACH OCCURRENCE AGGREGATE	$ 15,000,000 $ 15,000,000 $ XXXXXXX $ XXXXXXX $ XXXXXXX
B A A		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below No	WLR C43997646 (AOS) WLR C43997609 (CA) SCF C43997567 (WI)	07/01/2008 07/01/2008 07/01/2008	07/01/2009 07/01/2009 07/01/2009	X WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 3,000,000 $ 3,000,000 $ 3,000,000
A		OTHER EXCESS AUTO LIABILITY	XSA H08240231	07/01/2008	07/01/2009	COMBINED SINGLE LIMIT $9,000,000 (EACH ACCIDENT)	

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCLUSIONS ADDED BY ENDORSEMENT/SPECIAL PROVISIONS

CANCELLATION: 30 DAYS *EXCEPT 10 DAYS NOTICE FOR NON-PAYMENT. BLANKET WAIVER OF SUBROGATION IS GRANTED IN FAVOR OF CERTIFICATE HOLDER ON ALL POLICIES WHERE AND TO THE EXTENT REQUIRED BY WRITTEN CONTRACT WHERE PERMISSIBLE BY LAW. CERTIFICATE HOLDER IS NAMED AS AN ADDITIONAL INSURED (EXCEPT FOR WORKERS' COMP/EL) WHERE AND TO THE EXTENT REQUIRED BY WRITTEN CONTRACT.

CERTIFICATE HOLDER
3704651
SWALCO - SOLID WASTE AGENCY OF LAKE COUNTY
1311 NORTH ESTES
GURNEE IL 60031

CANCELLATION
SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

ACORD™ CERTIFICATE OF LIABILITY INSURANCE

1/1/2009

DATE(MM/DD/YYYY) 12/13/2007

PRODUCER
LOCKTON COMPANIES, LLC
5847 SAN FELIPE, SUITE 320
HOUSTON TX 77057
866-260-3538

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED
1300299 WASTE MANAGEMENT HOLDINGS, INC. & ALL AFFILIATED, RELATED & SUBSIDIARY COMPANIES INCLUDING:
COUNTRYSIDE LANDFILL, INC.
31725 NORTH ROUTE 83
GRAYSLAKE IL 60030

INSURERS AFFORDING COVERAGE	NAIC #
INSURER A: ACE American Insurance Company	22667
INSURER B: Indemnity Insurance Co of North America	43575
INSURER C:	
INSURER D:	
INSURER E:	

THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER AND THE CERTIFICATE HOLDER.

COVERAGES AJ

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	ADD'L INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE(MM/DD/YY)	POLICY EXPIRATION DATE(MM/DD/YY)	LIMITS	
A		GENERAL LIABILITY X COMMERCIAL GENERAL LIABILITY CLAIMSMADE X OCCUR X XCU INCLUDED X ISO CG 00011204 GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT X LOC	HDO G23736767	1/1/2008	1/1/2009	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$5,000,000 $5,000,000 $XXXXXXXXXX $5,000,000 $6,000,000 $6,000,000
A		AUTOMOBILE LIABILITY X ANY AUTO X ALL OWNED AUTOS SCHEDULED AUTOS X HIRED AUTOS X NON-OWNED AUTOS X MCS-90	ISA H08240395	1/1/2008	1/1/2009	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$1,000,000 $XXXXXXXXXX $XXXXXXXXXX $XXXXXXXXXX
		GARAGE LIABILITY ANY AUTO	NOT APPLICABLE			AUTO ONLY - EA ACCIDENT OTHER THAN AUTO ONLY: EA ACC AGG	$XXXXXXXXXX $XXXXXXXXXX $XXXXXXXXXX
A		EXCESS/UMBRELLA LIABILITY X OCCUR CLAIMSMADE X UMBRELLA FORM DEDUCTIBLE RETENTION $	XOOG23889389	1/1/2008	1/1/2009	EACH OCCURRENCE AGGREGATE	$15,000,000 $15,000,000 $XXXXXXXXXX $XXXXXXXXXX $XXXXXXXXXX
B A A		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below NO	WLR C43997646 (AOS) WLR C43997609 (CA) SCF C43997567 (WI)	1/1/2008 1/1/2008 1/1/2008	1/1/2009 1/1/2009 1/1/2009	X WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$3,000,000 $3,000,000 $3,000,000
A		OTHER EXCESS AUTO LIABILITY	XSA H08240231	1/1/2008	1/1/2009	COMBINED SINGLE LIMIT $9,000,000 (EACH ACCIDENT)	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

CANCELLATION: 30 DAYS *EXCEPT 10 DAYS NOTICE FOR NON-PAYMENT. BLANKET WAIVER OF SUBROGATION IS GRANTED IN FAVOR OF CERTIFICATE HOLDER ON ALL POLICIES WHERE AND TO THE EXTENT REQUIRED BY WRITTEN CONTRACT WHERE PERMISSIBLE BY LAW. CERTIFICATE HOLDER IS NAMED AS AN ADDITIONAL INSURED (EXCEPT FOR WORKERS' COMP/EL) WHERE AND TO THE EXTENT REQUIRED BY WRITTEN CONTRACT.

CERTIFICATE HOLDER

3449558
VILLAGE OF GRAYSLAKE
10 SOUTH SEYMOUR AVENUE
GRAYSLAKE IL 60030

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

TAB 7

7. SURCHARGE REPORTING DATA

Provide a table documenting the amount of surcharge fees (pursuant to Sec. 22.15 of the Act) paid in 2006-2007 and a separate table summarizing all surcharge-exempt waste received at landfill (code, type, quantity). Provide explanation/documentation of why each waste stream was exempt from the surcharge for calendar years 2006 and 2007.

Response: The amount of surcharge fees paid in 2006 and 2007 is summarized on Tables 29 and 30, respectively.

Included in Table 31 is a list of the exempt waste streams received during 2006 and 2007. An explanation is provided in the table.

Table 29
Summary of 2006 Surcharge Fees Paid
Countryside Landfill

Month	Total Tons Subject to State Fees	Total Yards Subject to State Fees	Subtitle D State Fee $0.22/ton	Solid Waste State Fee $2.00/ton	Subtitle D State Fee $0.101/cy	Solid Waste State Fee $0.95/cy	Solid Waste Fee to County $0.60/cy	Solid Waste Fee to County $1.27/ton	Total State Fees
January	31,040.90	845	$6,829.00	$62,081.80	$85.35	$802.75	$507.00	$39,421.94	$109,727.84
February	25,671.02	670	$5,647.62	$51,342.04	$67.67	$636.50	$402.00	$32,602.20	$90,698.03
March	32,530.17	270	$7,156.64	$65,060.34	$27.27	$256.50	$162.00	$41,313.32	$113,976.06
April	33,403.41	582	$7,348.75	$66,806.82	$58.78	$552.90	$349.20	$42,422.33	$117,538.78
May	39,184.57	0	$8,620.61	$78,369.14	0	0	0	$49,764.40	$136,754.15
June	39,171.40	0	$8,617.71	$78,342.80	0	0	0	$49,747.68	$136,708.19
July	33,242.96	40	$7,313.45	$66,485.92	$4.04	$38.00	$24.00	$42,218.56	$116,083.97
August	37,083.04	0	$8,158.27	$74,166.08	0	0	0	$47,095.46	$129,419.81
September	33,297.06	0	$7,325.35	$66,594.12	0	0	0	$42,287.27	$116,206.74
October	34,890.27	20	$7,675.86	$69,780.54	$2.02	$19.00	$12.00	$44,310.64	$121,800.06
November	34,262.07	0	$7,537.66	$68,524.14	0	0	0	$43,512.83	$119,574.62
December	29,184.52	0	$6,420.59	$58,369.04	0	0	0	$37,064.34	$101,853.97
Totals	402,961.39	2,427	$88,651.51	$805,922.78	$245.13	$2,305.65	$1,456.20	$511,760.97	$1,410,342.23

Table 30
Summary of 2007 Surcharge Fees Paid
Countryside Landfill

Month	Total Tons Subject to State Fees	Total Yards Subject to State Fees	Subtitle D State Fee $0.22/ton	Solid Waste State Fee $2.00/ton	Subtitle D State Fee $0.101/cy	Solid Waste State Fee $0.95/cy	Solid Waste Fee to County $0.60/cy	Solid Waste Fee to County $1.27/ton	Total State Fees
January	29,102.72	0	$6,402.60	$58,205.44	$0.00	$0.00	$0.00	$36,960.45	$101,568.49
February	23,646.23	0	$5,202.17	$47,292.46	$0.00	$0.00	$0.00	$30,030.71	$82,525.34
March	30,778.72	0	$6,771.32	$61,557.44	$0.00	$0.00	$0.00	$39,088.97	$107,417.73
April	31,444.15	2,965	$6,917.71	$62,888.30	$299.47	$2,816.75	$1,779.00	$39,934.07	$114,635.30
May	36,121.92	1	$7,946.82	$72,243.84	0	1	1	$45,874.84	$126,067.15
June	35,759.85	0	$7,867.17	$71,519.70	0	0	0	$45,415.01	$124,801.88
July	36,147.63	0	$7,952.48	$72,295.26	$0.00	$0.00	$0.00	$45,907.49	$126,155.23
August	38,951.84	175	$8,569.40	$77,903.68	18	166	105	$49,468.84	$136,230.85
September	32,202.24	0	$7,084.49	$64,404.48	0	0	0	$40,896.84	$112,385.82
October	35,470.42	0	$7,803.49	$70,940.84	$0.00	$0.00	$0.00	$45,047.43	$123,791.77
November	31,515.39	0	$6,933.39	$63,030.78	0	0	0	$40,024.55	$109,988.71
December	26,936.41	0	$5,926.01	$53,872.82	0	0	0	$34,209.24	$94,008.07
Totals	388,077.52	3,141	$85,377.05	$776,155.04	$317.24	$2,983.95	$1,884.60	$492,858.45	$1,359,576.34

Table 31
Largest Waste Streams Exempt From State Surcharge Fees - 2006 and 2007
Countryside Landfill

2006

Generator	Site Code	Profile	Tons	Yards	Explanation of Exemption
HARLEM IRVING COMPANIES	210	PB1257 / LUST CONTAMINATED SOIL	7,739	8,225	Leaking Underground Storage Tank - Manifested
AMOCO 15476	265	15476 / CONTAMINATED SOIL	6,707	7,645	Leaking Underground Storage Tank - Pollution Control Waste
IDOT	265	PB1071 / CONTAMINATED SOIL	6,477	7,106	Leaking Underground Storage Tank - Pollution Control Waste - Per Generator Certification, NSW
COOK CO DEPT OF HWY	210	MP3129 / PETROLEUM CONTAMINATED SOIL	5,072	5,325	Petroleum impacted soil - Manifested
PACIFIC GARDEN	265	PB1453 / CONTAMINATED SOIL	3,505	4,100	PNA Impacted soil - Pollution Control Waste - Per Generator Certification, NSW
IDOT	265	PB1069 / CONTAMINATED SOIL	2,446	2,933	Petroleum contaminated soil - Pollution Control Waste - Per Generator Certification, NSW
THORNTON OIL CO	265	MP1024 / CONTAMINATED SOIL	2,323	2,205	Leaking Underground Storage Tank - Pollution Control Waste
ACOS INSTALLATION	220	MP3146 / LAKE MICHIGAN SEDIMENT	1,594	1,785	Lake Mich. Sediment/dredging of sediment underneath synchro-lift - Manifested
CTA	210	PB1473 / PNA CONTAMINATED SOIL	1,550	1,470	PNA Impacted soil - Pollution Control Waste - Per Generator Certification - Manifested
ALL OTHERS			17,813	21,796	Varies
TOTALS			55,226	62,590	

2007

Generator	Site Code	Profile	Tons	Yards	Explanation of Exemption
FIRST ELYSIAN PROPERTIES	265	PB1611WS / CONTAMINATED SOIL	16,432	14,260	PNA & VOC impacted soil - Pollution Control Waste- Per Generator Certification, NSW
CITY OF CHICAGO	265	MP2916 / CONTAMINATED SOIL	13,819	14,700	Petroleum impacted soil - Pollution Control Waste - Per Generator Certification, NSW
351 MORTGAGE LOAN BORROWER	265	PB1685 / CONTAMINATED SOIL	11,763	10,920	PNA Impacted soil - Pollution Control Waste - Per Generator Certification, NSW
ROOSEVELT COLLECTIONS	265	102033IL / CONTAMINATED SOIL	10,209	10,240	PNA & VOC impacted soil - Pollution Control Waste - Per Generator Certification, NSW
CTA	210	PB1473 / PNA CONTAMINATED SOIL	6,481	6,900	PNA Impacted soil - Manifested Pollution Control Waste
HARLEM IRVING COMPANIES	210	PB1257 / LUST CONTAMINATED SOIL	4,884	6,400	Leaking Underground Storage Tank - Manifested Pollution Control
LENNAR HOMES CHICAGO	210	100883IL / CONTAMINATED SOIL	2,767	2,900	Contaminated soil at redevelopment site - Manifested Pollution Control
PEOPLES GAS CO	220	MP1050 / MGP CONTAMINATED SOIL	1,433	1,700	MGP Contaminated Soi l- Manifested Pollution Control Waste
ALL OTHERS			94,656	110,653	Varies
TOTALS			162,445	178,673	

TAB 8

8. SPECIAL WASTE REPORTING DATA

Provide tables summarizing all non-hazardous special waste received at landfill (code, type, quantity) for calendar years 2006 and 2007.

Response: See Tables 32 and 33, respectively.

Table 32
Summary of Non-Hazardous Special Waste Received in 2006
Countryside Landfill

Record Field	Management Code	Generator Name & Address	Generator IEPA ID#	Waste Code	Quantity	Unit of Measure
A.	Landfill	Synchro Lift (Bldg 52) 201 Decatur Ave Great Lakes, IL 60088	0917255004	Other Organic Solids	1593.52	Ton
B.	Landfill	ACOS Installation & Environ. N-45 Boat Ramp (Bldg 51) 201 Decatur Ave Great Lakes, IL 60088	0917255004	Other Organic Solids	816.62	Ton
C.	Landfill	ALDI, INC. 1365 Lee Street Des Plaines, IL 60018	0310635073	LUST	254.75	Ton
D.	Landfill	AVON PRODUCTS, INC 6901 Golf Rd. Morton Grove, IL 60053	005149471	Other Contaminated Materials	75.88	Ton
E.	Landfill	CITY OF DesPLAINES 2665-2671 Manheim Des Plaines, IL 60016	0310635557	LUST	760	Ton
F.	Landfill	COOK COUNTY HIGHWAY DEPT 1915-2150 Techny Rd. Northbrook, IL 60062	312075302	LUST	5072.16	Ton
G.	Landfill	CTA - Howard Station 7750 North Haskins Chicago, IL 60626	316015011	LUST	1550.09	Ton
H.	Landfill	DOO YOUNG HONG 8255 Skokie Blvd. Skokie, IL 60077	312888552	LUST	602.42	Ton

Table 32
Summary of Non-Hazardous Special Waste Received in 2006
Countryside Landfill

Record Field	Management Code	Generator Name & Address	Generator IEPA ID#	Waste Code	Quantity	Unit of Measure
I.	Landfill	Edward R. James Homes LLC 301 E. Half Day Road Buffalo Grove, IL 60089	0974185056	Other Contaminated Soil	390	Ton
J.	Landfill	EXXON MOBIL 3821 Indianapolis Blvd. East Chicago, In. 46312	9180019999	Other Contaminated Materials	21.33	Ton
K.	Landfill	Frontier Development, LLC 1516 W. Northwest Hwy. Arlington Heights, IL 60005	0314035083	LUST	228.6	Ton
L.	Landfill	HARLEM IRVING COMPANIES 2606 N. Elston Chicago, IL 60030	0316225018	LUST	7738.76	Ton
M.	Landfill	LAMBENT TECHNOLOGIES 7272 N. Central Park Ave. Skokie, IL 60076	0312885005	Other Contaminated Materials	9.53	Ton
N.	Landfill	NICHOLS ALUMINUM 200 Shelter Rd. Lincolnshire, IL 60069	0978995005	Other Contaminated Materials	900	Ton
O.	Landfill	NORTH SHORE GAS Former South Plant MGP Site Pershing Rd/Madison & River Waukegan, IL 60085	0971900058	Other Contaminated Soil	0.83	Ton
P.	Landfill	NORWOOD ROSELLE, LLC 25 S. Park St. Roselle, IL 60172	0434825132	LUST	246.97	Ton

Table 32
Summary of Non-Hazardous Special Waste Received in 2006
Countryside Landfill

Record Field	Management Code	Generator Name & Address	Generator IEPA ID#	Waste Code	Quantity	Unit of Measure
Q.	Landfill	O'BRIEN INVESTMENTS, LLC 10062 Franklin Ave Franklin Park, IL 60131	0310965251	LUST	155.65	Ton
R.	Landfill	QUALITY CONTROL CORP. 7301 W. Wilson Ave. Norridge, IL 60706	03106005950	LUST	100	Ton
S.	Landfill	SCIENCE & ART ACADEMY 1865 Miner Street Des Plaines, IL 60016	0310635582	Other Contaminated Materials	232.99	Ton
T.	Landfill	WATERTOWER MARINA, INC 3112 W. Lincoln Rd. McHenry, IL 60050	1110605146	LUST	283.78	Ton

Table 33
Summary of Non-Hazardous Special Waste Received in 2007
Countryside Landfill

Record Field	Management Code	Generator Name & Address	Generator IEPA ID#	Waste Code	Quantity	Unit of Measure
A.	Landfill	7-ELEVEN 814 W. Higgins Park Ridge, IL 60062	0302465032	Other Contaminated Soil	1	YD
B.	Landfill	7-ELEVEN 2101 W. Main St. St. Charles, IL 60174	0894855102	Other Contaminated Soil	7	YD
C.	Landfill	7-ELEVEN 2700 East Sauk Trail Rd. Sauk Village, IL 60411	0312795003	Other Contaminated Soil	2	YD
D.	Landfill	AVON PRODUCTS, INC 6901 Golf Rd. Morton Grove, IL 60053	005149471	Off Spec Products	655	YD
E.	Landfill	CENTERPOINT PROPERTIES 2553 Edington Street Franklin Park, IL 60134	0310960003	Other Contaminated Soil	940	YD
F.	Landfill	CHICAGO PUBLIC BUILDING COMMISSION 3120 & 3128 S. Halstead St. Chicago, IL	0316315307	Other Contaminated Soil	380	YD
G.	Landfill	CTA 2200 S. Cicero Chicago, IL	0310515420	Other Contaminated Soil	80	YD
H.	Landfill	CITY OF CHICAGO WATER DEPARTMENT 2200 W. to 2480 W. Barry Ave. Chicago, IL 60618	0316246389	Other Contaminated Soil	920	YD

Table 33
Summary of Non-Hazardous Special Waste Received in 2007
Countryside Landfill

Record Field	Management Code	Generator Name & Address	Generator IEPA ID#	Waste Code	Quantity	Unit of Measure
I.	Landfill	CITY OF CHICAGO WATER DEPARTMENT 1140 W to 1460 W Webster Ave Chicago, IL 60614	0315075267	Other Contaminated Soil	620	YD
J.	Landfill	CHICAGO TRANSIT AUTHORITY 7750 N. Haskins Chicago, IL 60626	0316015011	Other Contaminated Soil	6900	YD
K.	Landfill	CTA ADDISON STATION 1818 - 1820 W. Addison Chicago, IL	0316065258	Other Contaminated Soil	20	YD
L.	Landfill	DOO YOUNG HONG 8255 Skokie Blvd. Skokie, IL 60077	0312888552	LUST	1080	YD
M.	Landfill	GENERAL MOTORS/ELECTOMOTIVE DIESEL 9301 W. 55th Street LaGrange, IL 60525	0311740010	Other Contaminated Materials	925	YD
N.	Landfill	EXXON MOBIL 3821 Indianapolis Blvd. East Chicago, In. 46312	IND0423234631	Other Contaminated Materials	30	YD
O.	Landfill	HARLEM IRVING COMPANIES 2606 N. Elston Chicago, IL 60647	0316225018	LUST	6400	YD
P.	Landfill	JOSEPH T RYERSON AND SON 8301 S. Stewart Chicago. IL 60620	0316006052	Other Contaminated Soil	1000	YD

Table 33
Summary of Non-Hazardous Special Waste Received in 2007
Countryside Landfill

Record Field	Management Code	Generator Name & Address	Generator IEPA ID#	Waste Code	Quantity	Unit of Measure
Q.	Landfill	KINDERMORGAN 8500 W. 68th Street Argo, IL60501	0310120008	Other Contaminated Materials Other Contaminated Soil	610 75	YD YD
R.	Landfill	LaGROU DISTRIBUTION SYSTEM 1800 W. Hawthorne Lane West Chicago, IL 60185	0430903009	Other Contaminated Materials	30	YD
S.	Landfill	LENNAR HOMES CHICAGO 755 Seegers Rd. Des Plaines, IL 60016	0310630026	Other Contaminated Soil	2900	YD
T.	Landfill	MADISON 1224, LLC 1214 - 1236 Madison St. Chicago, IL 60606	0316287006	Other Contaminated Soil	220	YD
U.	Landfill	MARATHON PETROLEUM COMPNY 1590 Bloomington Rd, Glendale Heights, IL 60139	0430405034	LUST	240	YD
V.	Landfill	NICHOLS ALUMINUM 200 Shelter Rd. Lincolnshire, IL 60069	0978995005	Other Contaminated Materials	820	YD
W.	Landfill	O'BRIEN INVESTMENTS, LLC 10625 Franklin Ave. Franklin Park, IL 60131	0310965251	LUST	420	YD
X.	Landfill	PAR DEVELOPMENT 300 Airport Rd. Elgin, IL 60123	0894385550	LUST	15	YD

Table 33
Summary of Non-Hazardous Special Waste Received in 2007
Countryside Landfill

Record Field	Management Code	Generator Name & Address	Generator IEPA ID#	Waste Code	Quantity	Unit of Measure
Y.	Landfill	PEOPLES GAS LIGHT & COKE COMPANY 2200 S. Racine Ave Chicago, IL 60614	0316310034	Other Contaminated Soil	1700	YD
Z.	Landfill	PEOPLES GAS LIGHT & COKE COMPANY 3052 South Pitney Court Chicago, IL	0316310037	Other Contaminated Soil	920	YD
AA.	Landfill	SCIENCE & ART ACADEMY 1865 Miner Street Des Plaines, IL 60016	0310635582	Other Contaminated Soil	220	YD
BB.	Landfill	STEINER SYSTEMS 2700 W. Roosevelt Ave. Broadview, IL 60156	0310305045	Other Contaminated Materials	43	YD
CC.	Landfill	UNION PACIFIC 307 W. Lake St. Northlake, IL 60164	0311865042	Other Contaminated Soil	195	YD
DD.	Landfill	VILLAGE OF WHEELING 521 S Milwaukee Wheeling, IL 60090	0314977692	LUST	80	YD