

Appendix E

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E1 - Spreadsheet of Pesticide License Holders/Training Events

2015 Pesticide License Training Summary

Employee Name	Category	Training Location	Date
Jim Kennedy	N3, N6, N20	McCracken County Ext Office	12/17/2015
David Shockley	N3, N6	McCracken County Ext Office	12/17/2015
Wayne Ryan	N6	McCracken County Ext Office	12/17/2015
Les Evans	N3, N6, N20	McCracken County Ext Office	12/17/2015
Darrell Walker	N6	McCracken County Ext Office	12/17/2015

E2 - Salt Application Tables

Table 1. Weather event: LIGHT SNOW

Using 23% concentration of Sodium Chloride

PAVEMENT TEMPERATURE RANGE, AND TREND	INITIAL OPERATION			SUBSEQUENT OPERATIONS			COMMENTS	
	Pavement Surface at time of initial operation	Maintenance Action	Chemical spread rate (gal/in-mi or lb/in mi)		Maintenance Action	Chemical spread rate (gal/in-mi or lb/in mi)		
			Liquid NaCl	Solid or pre-wet solid (lb)		Liquid NaCl		Solid or pre-wet solid (lb)
Above 32 degrees F, Steady or rising	Dry, wet, slush, or light snow	None, see comments	N/R		None, see comments	N/R		N/R = Not Recommended * Monitor pavement temperatures closely * Treat icy patches if needed with chemical at 100 lbs per lane mile; plow if needed
32 degrees F, or below is imminent	Dry	Apply liquid or pre-wet solid chemical	40-50	75-125	Plow as needed; reapply liquid or solid chemical when needed	40-50	75-125	* Application rates will depend on dilution potential
20 to 32 degrees F, Remaining in range	Wet, slush, or light snow cover	Apply liquid or solid chemical	40-90	100-210		40-90	100-210	
15 to 20 degrees F, Remaining in range	Dry, wet, Slush, or light snow cover	Apply pre-wet solid chemical	N/R	200-240	Plow as needed; reapply pre-wet solid chemical when needed	N/R	200-240	* If sufficient moisture is present, solid chemical without pre-wetting can be applied * Application rates will depend on dilution potential
Below 15 degrees F, Steady or Falling	Dry or light snow cover	Plow as needed	N/R		Plow as needed	N/R		* It is not recommended that chemicals be applied in this temperature range

CHEMICAL APPLICATIONS: These application rates are starting points. Local experience should refine these recommendations. Time chemical applications to prevent deteriorating conditions or development of packed and bonded snow. Monitor temperature and humidity to determine application timing.

PLOWING: Before applying any ice control chemical, the surface should be cleared of as much snow and ice as possible.

CHEMICAL RATES: The recommended snow and ice control material application rates depend on atmospheric and pavement conditions at the time of treatment and on how these conditions are expected to change over the time period (window) between the current treatment and the next anticipated treatment.

Table 2. Weather event: LIGHT SNOW STORM WITH PERIOD (S) OF MODERATE OR HEAVY SNOW

Using 23% concentration of Sodium Chloride

PAVEMENT TEMPERATURE RANGE, AND TREND	INITIAL OPERATION			SUBSEQUENT OPERATIONS				COMMENTS	
	Pavement Surface at time of initial operation	Maintenance Action	Chemical spread rate (gal/in-mi or lb/in mi) Liquid NaCl	Maintenance Action	Chemical spread rate (gal/in-mi or lb/in mi)				
					Liquid NaCl	Heavy snow	Light snow		Heavy snow
Above 32 degrees F, Steady or rising	Dry, wet, slush, or light snow	None, see comments	N/R	None, see comments	N/R			N/R = Not Recommended	
32 degrees F, or below is imminent	Dry	Apply liquid or pre-wet solid chemical	40-65	Plow as needed; reapply liquid or solid chemical when needed	40-50	50-60	75-125	150-200	
25 to 32 degrees F, Remaining in range	Wet, slush, or light snow cover	Apply liquid or solid chemical	65-90		65-80	80-90	175-185	190-200	* Do not apply liquid chemical onto heavy snow accumulation or packed snow * Application rates will depend on dilution potential
15 to 25 degrees F, Remaining in range	Dry, wet, Slush, or light snow cover	Apply pre-wet solid chemical	N/R	Plow as needed; reapply pre-wet solid chemical when needed	N/R	N/R	200-230	200-250	* If sufficient moisture is present, solid chemical without pre-wetting can be applied * Application rates will depend on dilution potential
Below 15 degrees F, Steady or Falling	Dry or light snow cover	Plow as needed	N/R	Plow as needed			N/R		* It is not recommended that chemicals be applied in this temperature range

CHEMICAL APPLICATIONS: These application rates are starting points. Local experience should refine these recommendations. Time chemical applications to prevent deteriorating conditions or development of packed and bonded snow. Monitor temperature and humidity to determine application timing.

PLOWING: Before applying ant ice control chemical, the surface should be cleared of as much snow and ice as possible.

CHEMICAL RATES: The recommended snow and ice control material application rates depend on atmospheric and pavement conditions at the time of treatment and on how these conditions are expected to change over the time period (window) between the current treatment and the next anticipated treatment.

Table 3. Weather event: MODERATE OR HEAVY SNOW

Using 23% concentration of Sodium Chloride

PAVEMENT TEMPERATURE RANGE, AND TREND	INITIAL OPERATION				SUBSEQUENT OPERATIONS			COMMENTS
	Pavement Surface at time of initial operation	Maintenance Action	Chemical spread rate (gal/in-mi or lb/in mi)		Maintenance Action	Chemical spread rate (gal/in-mi or lb/in mi)		
			Liquid NaCl	Solid or pre-wet solid (lb)		Liquid NaCl	Solid or pre-wet solid (lb)	
Above 32 degrees F, Steady or rising	Dry, wet, slush, or light snow	None, see comments	N/R	N/R	None, see comments	N/R	N/R	N/R = Not Recommended * Monitor pavement temperatures closely * Treat icy patches if needed with chemical at 40-65 gallons per lane mile; plow if needed
32 degrees F, or below is imminent	Dry	Apply liquid or pre-wet solid chemical	40-65	75-150	Plow as needed; reapply liquid or solid chemical when needed	50-65	150-200	* Do not apply liquid chemical onto heavy snow accumulation or packed snow * Application rates will depend on dilution potential
25 to 32 degrees F, Remaining in range	Wet, slush, or light snow cover	Apply liquid or solid chemical	N/R	175-200		80-90	190-200	
15 to 25 degrees F, Remaining in range	Dry, wet, Slush, or light snow cover	Apply pre-wet solid chemical	N/R	200-230	Plow as needed; reapply pre-wet solid chemical when needed	N/R	200-250	* If sufficient moisture is present, solid chemical without pre-wetting can be applied * Application rates will depend on dilution potential
Below 15 degrees F, Steady or Falling	Dry or light snow cover	Plow as needed	N/R	N/R	Plow as needed	N/R	N/R	* It is not recommended that chemicals be applied in this temperature range

CHEMICAL APPLICATIONS: These application rates are starting points. Local experience should refine these recommendations. Time chemical applications to prevent deteriorating conditions or development of packed and bonded snow. Monitor temperature and humidity to determine application timing.

PLOWING: Before applying ant ice control chemical, the surface should be cleared of as much snow and ice as possible.

CHEMICAL RATES: The recommended snow and ice control material application rates depend on atmospheric and pavement conditions at the time of treatment and on how these conditions are expected to change over the time period (window) between the current treatment and the next anticipated treatment.

Table 4. Weather event: FROST OR BLACK ICE

Using 23% concentration of Sodium Chloride

PAVEMENT TEMPERATURE RANGE, AND TREND	INITIAL OPERATION			SUBSEQUENT OPERATIONS			COMMENTS	
	TRAFFIC CONDITION	Maintenance Action	Chemical spread rate (gal/ln-mi or lb/ln mi)		Maintenance Action	Chemical spread rate (gal/ln-mi or lb/ln mi)		
			Liquid NaCl	Solid or pre-wet solid (lb)		Liquid NaCl		Solid or pre-wet solid (lb)
Above 32 degrees F, Steady or rising	Any level	None, see comments	N/R	N/R	None, see comments	N/R	N/R = Not Recommended * Monitor pavement temperature closely; begin treatment if temperature starts to fall to 32 degrees F or below and is at or below dew point	
28 to 32 degrees F, Remaining in range or falling 32 degrees F or below, and equal to or below dew point	Traffic rate less than 100 VPH		45-60	100-130		45-60	100-130	
	Traffic rate greater than 100 VPH	Apply liquid or pre-wet solid chemical	45-75	100-130	Reapply liquid or pre-wet solid chemical when needed	45-75	100-130	
20 to 28 degrees F, Remaining in range, and equal to or below dew point			65-80	165-200		65-80	165-200	
15 to 20 degrees F, Remaining in range, and equal to or below dew point	Any level	Apply pre-wet solid chemical	N/R	175-225	Reapply pre-wet solid chemical when needed	N/R	175-225	
			N/R			N/R		
Below 15 degrees F, Steady or Falling							* It is not recommended that chemicals be applied in this temperature range	

CHEMICAL APPLICATIONS: These application rates are starting points. Local experience should refine these recommendations. Time chemical applications to prevent deteriorating conditions or development of packed and bonded snow. Monitor temperature and humidity to determine application timing.

PLOWING: Before applying ant ice control chemical, the surface should be cleared of as much snow and ice as possible.

CHEMICAL RATES: The recommended snow and ice control material application rates depend on atmospheric and pavement conditions at the time of treatment and on how these conditions are expected to change over the time period (window) between the current treatment and the next anticipated treatment.

Table 5. Weather event: FREEZING RAINSTORM

Using Solid Sodium Chloride (Salt)

PAVEMENT TEMPERATURE RANGE, AND TREND	INITIAL OPERATION		SUBSEQUENT OPERATIONS		COMMENTS
	Maintenance Action	Chemical spread rate (lb/ln mi) Solid or pre-wet solid (lb)	Maintenance Action	Chemical spread rate (lb/ln mi) Solid or pre-wet solid (lb)	
Above 32 degrees F, Steady or rising	None, see comments	N/R	None, see comments	N/R	N/R = Not Recommended * Monitor pavement temperatures closely * Treat icy patches if needed with pre-wet solid chemical at 100-150 lbs per lane mile
32 degrees F, or below is imminent	Apply solid chemical	100-200	Reapply solid chemical as needed	100-200	* Monitor pavement temperature and precipitation closely * Application rates will depend on dilution potential
20 to 32 degrees F, Remaining in range		200-300		200-300	
15 to 20 degrees F, Remaining in range		250-400		250-400	
Below 15 degrees F, Steady or Falling	N/R	N/R	N/R	N/R	* It is not recommended that chemicals be applied in this temperature range

CHEMICAL APPLICATIONS: These application rates are starting points. Local experience should refine these recommendations. Time chemical applications to prevent deteriorating conditions or development of packed and bonded snow. Monitor temperature and humidity to determine application timing.

PLOWING: Before applying ant ice control chemical, the surface should be cleared of as much snow and ice as possible.

CHEMICAL RATES: The recommended snow and ice control material application rates depend on atmospheric and pavement conditions at the time of treatment and on how these conditions are expected to change over the time period (window) between the current treatment and the next anticipated treatment.

Table 6. Weather event: SLEET STORM

Using a 23% concentration of Sodium Chloride

PAVEMENT TEMPERATURE RANGE, AND TREND	INITIAL OPERATION		SUBSEQUENT OPERATIONS		COMMENTS
	Maintenance Action	Chemical spread rate (lb/ln mi) Solid or pre-wet solid (lb)	Maintenance Action	Chemical spread rate (lb/ln mi) Solid or pre-wet solid (lb)	
Above 32 degrees F, Steady or rising	None, see comments	N/R	None, see comments	N/R	N/R = Not Recommended * Monitor pavement temperatures closely * Treat icy patches if needed with pre-wet solid chemical at 100-150 lbs per lane mile
32 degrees F, or below is imminent	Apply solid chemical or pre-wet solid chemical	125	Plow accumulation and reapply pre-wet solid chemical as needed	125	* Monitor pavement temperature and precipitation closely * Application rates will depend on dilution potential
28 to 32 degrees F, Remaining in range		125-325		125-325	
15 to 28 degrees F, Remaining in range		250-400		250-400	
Below 15 degrees F, Steady or Falling	Plow as needed	N/R	Plow as needed	N/R	* It is not recommended that chemicals be applied in this temperature range

CHEMICAL APPLICATIONS: These application rates are starting points. Local experience should refine these recommendations. Time chemical applications to prevent deteriorating conditions or development of packed and bonded snow. Monitor temperature and humidity to determine application timing.

PLOWING: Before applying an ice control chemical, the surface should be cleared of as much snow and ice as possible.

CHEMICAL RATES: The recommended snow and ice control material application rates depend on atmospheric and pavement conditions at the time of treatment and on how these conditions are expected to change over the time period (window) between the current treatment and the next anticipated treatment.

E3 - Street Sweeping Mileage Spreadsheet

E4 - Leaf Bag Totals

GROUP NBR	PO NBR	ACTG PER	CD	DATE	TRANSACTION NUMBER	DESCRIPTION	YTD/CURRENT ESTIM/APPROP	YTD/CURRENT ENCUMBRANCE	TRANSACTION AMOUNT	CURRENT BALANCE
FUND 050 SOLID WASTE										
050-0000-481	01-00	Miscellaneous / Miscellaneous - Other					3,000		134.40	2,865.60
4502	12/15	BA	09/01/15	BA1512118	YEAR END CLEAN UP		3,885			
4293	12/15	CR	06/18/15	0000205	CUSTOMER #3243	BEVERLY 06/18/15 01			8.00	
4179	12/15	CR	06/17/15	0033404	PW TURN-IN SHEET 6/17/	BEVERLY 06/17/15 01 #3			24.00	
4178	12/15	CR	06/16/15	0033383	CUSTOMER	BEVERLY 06/16/15 01			8.00	
4178	12/15	CR	06/16/15	0033385	DANIEL JACKSON #328	BEVERLY 06/16/15 01			16.00	
4154	12/15	CR	06/12/15	0033311	MELISSA FRANKLIN #443	BEVERLY 06/12/15 01			40.00	
4152	12/15	CR	06/11/15	0033153	MELISSA FRANKLIN #32	BEVERLY 06/11/15 01			16.00	
4052	12/15	CR	06/10/15	0033048	PW TURN-IN SHEET 6/10	BEVERLY 06/10/15 01			8.00	
4051	12/15	CR	06/09/15	0033031	CORINE HARBER #44	BEVERLY 06/09/15 01			24.00	
4051	12/15	CR	06/09/15	0033032	CUSTOMER #3235	BEVERLY 06/09/15 01			8.00	
4151	12/15	CR	06/08/15	0032965	DOUGLAS MCCLURE #32	BEVERLY 06/08/15 01			24.00	
4047	12/15	CR	06/04/15	0032786	CUSTOMER #3230	BEVERLY 06/04/15 01			8.00	
4047	12/15	CR	06/04/15	0032787	CUSTOMER #327	BEVERLY 06/04/15 01			8.00	
4047	12/15	CR	06/04/15	0032788	CUSTOMER #3229	BEVERLY 06/04/15 01			8.00	
4045	12/15	CR	06/02/15	0032670	PW TURN-IN SHEET 6/2/20	BEVERLY 06/02/15 01			16.00	
4044	12/15	CR	06/01/15	0032902	CUSTOMER #3271	BEVERLY 06/01/15 02			16.00	
3814	11/15	CR	05/29/15	0032263	STACEE YOUNG #32	BEVERLY 05/29/15 01			16.00	
3814	11/15	CR	05/29/15	0032264	BEVERLY SCRUGGS #32	BEVERLY 05/29/15 01			8.00	
3796	11/15	CR	05/22/15	0031940	PW TURN-IN SHEET 5/22/	BEVERLY 05/22/15 01			8.00	
3795	11/15	CR	05/21/15	0031883	SANDY MCEWEN #21	BEVERLY 05/21/15 01			8.00	
3805	11/15	CR	05/18/15	0031325	CUSTOMER #3211	BEVERLY 05/18/15 01			80.00	
3815	11/15	CR	05/15/15	0031042	JASON BATES #4432	BEVERLY 05/15/15 01			8.00	
3815	11/15	CR	05/15/15	0031044	RONNIE WHITE #2783	BEVERLY 05/15/15 01			16.00	
3791	11/15	CR	05/14/15	0031005	JIMMY IRVING #326	BEVERLY 05/14/15 01			8.00	
3817	11/15	CR	05/13/15	0031124	PUBLIC WORKS DEPT SMILLAY 05/13/15 01				32.00	

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GROUP NBR	PO NBR	ACCTG PER.	CD	DATE	TRANSACTION NUMBER	DESCRIPTION	YTD/CURRENT ESTIM/APPROP	YTD/CURRENT ENCUMBRANCE	TRANSACTION AMOUNT	CURRENT BALANCE
FUND 050 SOLID WASTE										
050-0000-481.01-00						Miscellaneous / Miscellaneous - Other				
3786			CR	05/12/15	0030746	CUSTOMER BEVERLY 05/12/15 01 #32			8.00	
3784			CR	05/07/15	0030547	MECHELLE WOODS BEVERLY 05/07/15 01 #3248			8.00	
3779			CR	05/01/15	0030085	PW TURN-IN SHEET BEVERLY 05/01/15 01 5/1/2			16.00	
3494			CR	04/24/15	0029015	PW TURN-IN SHEET BEVERLY 04/24/15 01 4/24/			16.00	
3433			CR	04/23/15	0028794	CUSTOMER BEVERLY 04/23/15 01 #3194			8.00	
3431			CR	04/21/15	0028416	PW TURN-IN SHEET BEVERLY 04/21/15 01 4/21/			32.00	
3427			CR	04/16/15	0027901	PW TURN-IN SHEET BEVERLY 04/16/15 01 4/16/			16.00	
3425			CR	04/14/15	0027726	PW TURN-IN SHEET BEVERLY 04/14/15 01 4/14/			8.00	
3424			CR	04/13/15	0027662	PW TURN-IN SHEET BEVERLY 04/13/15 01 4/13/			8.00	
3422			CR	04/10/15	0027578	CUSTOMER BEVERLY 04/10/15 01 #3170			24.00	
3422			CR	04/10/15	0027580	CUSTOMER BEVERLY 04/10/15 01 #3173			16.00	
3422			CR	04/10/15	0027587	WILLIAM HARRIS BEVERLY 04/10/15 01 #44335			16.00	
3421			CR	04/08/15	0027334	CUSTOMER BEVERLY 04/08/15 01 #3168			16.00	
3421			CR	04/08/15	0027335	CUSTOMER BEVERLY 04/08/15 01 #			8.00	
3420			CR	04/07/15	0027201	CUSTOMER BEVERLY 04/07/15 01 #3166			8.00	
3302			CR	04/06/15	0027100	CUSTOMER BEVERLY 04/06/15 01 #3163			8.00	
3299			CR	04/02/15	0026858	PW TURN-IN SHEET BEVERLY 04/02/15 01 4/2/2			16.00	
3298			CR	04/01/15	0026414	CUSTOMER BEVERLY 04/01/15 01 #3155			8.00	
3298			CR	04/01/15	0026415	DIANNE BOLLEN BEVERLY 04/01/15 01 #302			8.00	
3154			CR	03/31/15	0026353	CUSTOMER BEVERLY 03/31/15 01 #3154			16.00	
3096			CR	03/26/15	0026096	SUE MAYS BEVERLY 03/26/15 01 #307			8.00	
3096			CR	03/26/15	0026097	CUSTOMER BEVERLY 03/26/15 01			16.00	
3094			CR	03/25/15	0025988	CUSTOMER BEVERLY 03/25/15 01 #3143			16.00	
3091			CR	03/23/15	0025860	CUSTOMER BEVERLY 03/23/15 01 #3140			16.00	
3091			CR	03/23/15	0025861	CUSTOMER BEVERLY 03/23/15 01 #3139			8.00	

continued

GROUP NBR	PO NBR	ACCTG PER.	CD	DATE	NUMBER	DESCRIPTION	YTD/CURRENT ESTIM/APPROP	YTD/CURRENT ENCUMBRANCE	TRANSACTION AMOUNT	CURRENT BALANCE
FUND 050 SOLID WASTE										
050-0000-481.01-00 Miscellaneous / Miscellaneous - Other										
3084	09/15	CR	03/17/15	0025752		BEVERLY 03/23/15 01			8.00	1
3084	09/15	CR	03/17/15	0025803		LORENZO HENSLEY #3062			8.00	1
2946	09/15	CR	03/11/15	0025308		PW TURN-IN SHEET 3/17/			16.00	
2908	09/15	CR	03/10/15	0025189		BEVERLY 03/17/15 01			16.00	2
2907	09/15	CR	03/09/15	0025152		BEVERLY 03/11/15 01			16.00	2
2902	09/15	CR	03/02/15	0024801		CUSTOMER #3051			8.00	1
2902	09/15	CR	03/02/15	0024802		BEVERLY 03/10/15 01			8.00	1
2773	08/15	CR	02/24/15	0024156		KATHRYN ROBINSON #4433			16.00	2
2692	08/15	CR	02/14/15	0022805		RICKY BURTON #3044			8.00	1
2582	08/15	CR	02/09/15	0022028		BEVERLY 03/02/15 02			16.00	2
2582	08/15	CR	02/09/15	0022501		MELINDA RITCHIE #304			8.00	1
2580	08/15	CR	02/06/15	0022495		BEVERLY 02/24/15 01			24.00	3
2578	08/15	CR	02/04/15	0022403		PW TURN-IN SHEET 2/24/			24.00	3
2498	07/15	CR	01/30/15	0020240		BEVERLY 02/14/15 01			8.00	1
2497	07/15	CR	01/29/15	0020005		EDNA SINKS #3018			8.00	1
2496	07/15	CR	01/28/15	0020482		BEVERLY 02/09/15 01			16.00	2
2490	07/15	CR	01/22/15	0019544		CUSTOMER #0485			8.00	1
2487	07/15	CR	01/21/15	0019460		BEVERLY 02/06/15 01			8.00	1
2487	07/15	CR	01/21/15	0019461		LEUSTOME #0481			16.00	2
2186	07/15	CR	01/09/15	0018365		BEVERLY 02/04/15 01			8.00	1
2185	07/15	CR	01/08/15	0018311		PW TURN-IN SHEET 1/30/			8.00	1
2183	07/15	CR	01/06/15	0018212		BEVERLY 01/30/15 01			16.00	2
2182	07/15	CR	01/05/15	0018019		PW TURN-IN SHEET 1/29/2			8.00	1
583	02/16	CR	08/27/15	0004059		BEVERLY 01/29/15 01			16.00	
						CUSTOMER #0475			8.00	1
						BEVERLY 01/28/15 01			8.00	1
						PW TURN-IN SHEET 1/22/2			8.00	1
						BEVERLY 01/22/15 01			8.00	1
						PW TURN-IN SHEET 1/21/2			8.00	1
						BEVERLY 01/21/15 01			8.00	1
						PW TURN-IN SHEET 1/21/2			8.00	1
						BEVERLY 01/21/15 01			8.00	1
						CUSTOMER #0461			8.00	1
						BEVERLY 01/09/15 01			16.00	2
						PW TURN-IN SHEET 1/8/20			32.00	4
						BEVERLY 01/08/15 01			8.00	1
						CUSTOMER #4711			8.00	1
						BEVERLY 01/06/15 01			8.00	1
						CUSTOMER #0455			8.00	1
						BEVERLY 01/05/15 01			8.00	1
						PW TURN-IN SHEET 8/27/			8.00	
						BEVERLY 08/27/15 01				

continued

GROUP NBR	PO NBR	ACCTG PER.	CD	DATE	TRANSACTION NUMBER	DESCRIPTION	YTD/CURRENT ESTIM/APPROP	YTD/CURRENT ENCUMBRANCE	TRANSACTION AMOUNT	CURRENT BALANCE
FUND 050 SOLID WASTE										
050-0000-481.01-00 Miscellaneous / Miscellaneous - Other										
311	01/16	CR	07/25/15	0002028	PW TURN-IN SHEET BEVERLY 07/25/15 01	7/25/01			32.00	41
233	01/16	CR	07/18/15	0001615	PW TURN-IN SHEET BEVERLY 07/18/15 01	7/18/01			16.00	2
307	01/16	CR	07/10/15	0000803	PW TURN-IN SHEET BEVERLY 07/10/15 01	7/10/01			8.00	1
119	01/16	CR	07/01/15	0000441	JERRY NELSON BEVERLY 07/01/15 01	#328			40.00	5
ACCOUNT TOTAL							6,885	.00	1,461.90	5,423.10
FUND TOTAL							6,885	.00	1,461.90	5,423.10
GRAND TOTAL							6,885	.00	1,461.90	5,423.10

continued

**E5 - Compost and Solid Waste Report
Forms**

**MUNICIPAL SOLID WASTE (MSW) COLLECTOR AND RECYCLER
REGISTRATION and REPORT FORM**

KRS 224.43-315 (2) states "...all persons providing collection service, including collection for the purpose of recycling, shall register annually with the counties in which they provide the service."

KRS 224.43-315 (3) states "... all persons providing collection service, including collection for the purpose of recycling, shall report annually to the counties in which they provide service."

NAME OF COUNTY: McCracken REPORTING PERIOD: Jan 1 - Dec 31, 2015

CITY OF Paducah

COLLECTOR TYPE:

- | | |
|---|--|
| <input type="checkbox"/> permit hauler | <input type="checkbox"/> city permit hauler |
| <input type="checkbox"/> franchise hauler | <input checked="" type="checkbox"/> municipally owned |
| <input type="checkbox"/> private hauler | <input type="checkbox"/> city franchise hauler |
| <input type="checkbox"/> recycler | <input type="checkbox"/> transfer station or convenience center allowing self haul |

1. Name of Collector: City of Paducah, Engineering-Public Works, Solid Waste
2. Company Name: City of Paducah
3. Doing Business As: City of Paducah
4. Contact Person Name and Title: Chris Yarber / Operations Manager
5. Contact Person Phone Number: 270-444-8511
6. Contact Person Fax Number: 270-444-8689
7. Contact Person E-Mail Address: Cyarber@Paducah Ky.gov
8. Address: 300 South 5th St. Paducah, KY
City/State/Zip Code: 42001
9. Routes and Coverage Area: City Limits of Paducah, KY

(please identify cities, subdivisions, neighborhoods, etc.)

10. Number of Households Served: 9697 *(If apartment complexes- specify # of units)
11. Number of Businesses from which MSW is collected for disposal or recycling: 851
12. Of the total from 11, how many of these establishments are industrial facilities?: 0

For solid waste collection reporting, answer questions 13-14.

13. Average monthly cost per household: \$ 16.50 (for waste pick-up)
 \$ N/A per bag (cost if charged per bag)
 \$ N/A (rate for low income/elderly)

14. List the tonnage of Municipal Solid Waste collected for disposal by your company from McCracken County.

****ALL AMOUNTS SHOULD BE IN TONS****

Amount Disposed	Disposal Facility/Transfer Station	Tipping Fees
<u>26,103.60</u> tons	<u>CWI/Republic Transfer Station</u>	\$ <u>41.02</u> /tons
<u>904.00</u> tons	<u>CWI/Republic Transfer Station</u>	\$ <u>41.02</u> /tons
_____ tons	_____	\$ _____ /tons
_____ tons	_____	\$ _____ /tons

TOTAL 27,007.60 tons

For recycling reporting, answer questions 15-17.

15. Do you offer door-to-door recycling? Yes No _____
16. How many households in the county in which you are registering do you provide door-to-door recycling for each year? 9697
- Average monthly cost per household for recycling: \$ N/A (curbside recycling)
 \$ Free (yard waste pick-up)

17. Amounts of recyclables collected by weight per year. Auto salvage yards and scrap yards shall report the number of tons of material (metals, batteries, etc.) shipped off site to be recycled, not parts sold for reuse.

****ALL AMOUNTS SHOULD BE IN TONS****

Newspaper _____ tons	Metals - Non ferrous <u>22.95</u> tons
Plastic _____ tons	Steel cans _____ tons
Cardboard <u>507.33</u> tons	Motor oil <u>1,860</u> gallons
Office paper - mixed _____ tons	Mixed residential paper _____ tons
Office paper - white _____ tons	Lead acid batteries _____ each
Glass _____ tons	Electronic equipment <u>7.18</u> tons
Aluminum _____ tons	Other (tires) <u>47.31</u> tons
Metals - Ferrous <u>22.95</u> tons	



ENERGY AND ENVIRONMENT CABINET

DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT
200 FAIR OAKS, 2ND FLOOR
FRANKFORT, KY 40601
TELEPHONE NUMBER (502) 564-6716

**Annual Report for a
Solid Waste Composting Facility
Form DEP 7108 (6/99)**

General Instructions

1. **APPLICABILITY** – This form must be complete and submitted to the Cabinet by persons operating a solid waste compost facility.
2. **ASSISTANCE** – Questions regarding this form may be directed in writing to the Division of Waste Management, Solid Waste Branch at the address listed above or by calling (502) 564-6716.
3. **SUBMISSION** – Submit the original of the completed form to the Division of Waste Management at the address listed above. Submission is required by January 31, following the report year. If an item is not applicable, check the appropriate box or write “N/A” in the space provided. Submit the original and one copy of the report. Please type or print legibly in permanent ink.
4. **FILING FEES** – Fees are not applicable for this form.
5. **LAWS AND REGULATIONS** – Applicants are expected to understand and comply with all applicable laws and regulations.

Annual Compost Report

Year Ending December 31, 2015

1. Agency Interest #: 3062
2. Permit #: 073-00030
073-00049
3. Permittee Name: CITY OF PADUCAH BIOSOLIDS COMPOST FACILITY
(This refers to the corporation, LLC, business, person, government agency, etc., that owns or operates the facility.)
4. Permittee Mailing Address: 300 S. 5th STREET
5. City: PADUCAH
6. State: KY
7. Zip Code: 42001
8. Contact Person: ERIC HICKMAN, P.E.
9. Title: STORM WATER & DRAINAGE ENGINEER
10. E-Mail Address: ehickman@paducahky.gov
11. Phone #: (270) 444-9511
12. Cell #: (270) 519-0885
13. Fax #: (270) 444-8689
14. Certified Operator: CALVIN MEADOWS
15. Certification Number: 25837

Tons Received	Leaves	Grass	Brush	Manure or Animal Bedding	Wood Chips	WASTE WATER SLUDGE Other (specify)
January	226.8	0	655.6			397.5
February	104.4	0	313.3			396
March	35.2	0	876.1			591
April	0	0	1525			450
May	0	2.2	1418.9			558
June	0	6.7	2263.3			406.5
July	0	0	2173.9			897
August	0	2.2	2268.3			672
September	0	0	2981.1			472.5
October	17.8	1.5	2667.2			742.5
November	825.6	0	1753.9			720
December	857.6	0	1526.1			558
TOTAL	1067.4	12.6	20422.78			6861

16. Volume of Compost Prepared for Distribution: Tons 20,161.5

17. Volume of Compost Distributed: Tons 17,693.6

18. Volume of Reject Material (plastic, metal, glass, etc.) Disposed: 10 Tons APPROXIMATELY

- Landfill: Tons
 Recycled: Tons
 Other: Tons (specify method)

19. Volume of Non-Marketable Compost Disposed: Tons 0

- Landfill: Tons
 Other: Tons (specify method)

20. Compost Analytical Information:

Insert the average of all analyses conducted in the reporting year.

Component	Wet Weight	Dry Weight
pH	7.36 SU	*
Total Solids Content	47.1 %	*
Volatile Solids Content	69.11 %	*
Total Phosphorous	2683.75 ppm	1455.95 ppm
Total Potassium	1345 ppm	603.91 ppm
Total Kjeldahl Nitrogen (TKN)	3247.5 ppm	1458.13 ppm
Ammonium Nitrogen (NH ₄ -N)	681.13 ppm	305.83 ppm
Cadmium	.52 mg/kg	.23 mg/kg
Copper	73.79 mg/kg	33.13 mg/kg
Lead	15.53 mg/kg	6.97 mg/kg
Nickel	5.11 mg/kg	2.3 mg/kg
Zinc	134.5 mg/kg	60.39 mg/kg

NOTE: The results reported above should be the average of analyses taken during the reporting year, in accordance with the sampling schedule below. Waste should be analyzed as collected.

Do not conduct a separate analysis of a dried sample for the dry weight values.

Dry weight values (mg/kg) are derived using the following equation:

$$\text{mg/L } (\% \text{ Solids}) / 100 = \text{mg/kg dry weight.}$$

2015

Compost Recipient Log

Complete for all recipients of more than 20 cubic yards of compost within a 30-day period.

1. Name: Nelson Stutzman
 Address: 799 S.R. ^{1217 N.} City: Hickory
 Phone #: (270) 970-8184
 State: KY Zip Code: 40051

2. Name: Matt Snell
 Address: 4530 Mt Shelter Rd City: Vienna
 Phone #: (618) 771-2562
 State: IL Zip Code: 62995

3. Name: Rick Williams
 Address: 2959 WVS45 City: Metropolis IL
 Phone #: (618) 524-9762
 State: IL Zip Code: 62454

4. Name: Jim Mobley
 Address: 2154 Oliver Ch. Rd. City: Paducah, KY
 Phone #: (270) 554-5321
 State: KY Zip Code: 40301

5. Name: KATH OWENS
 Address: 18 JARSLAG City: BOONVILLE
 Phone #: (618) 24-2025
 State: IL Zip Code: 62910

6. Name: John Woodson
 Address: 785 Cedar Ave City: Princeton KY
 Phone #: (270) 625-0565
 State: KY Zip Code: 40345

7. Name: Gaty Cruce
 Address: 46 Penn City: Marion
 Phone #: (270) 836-8936
 State: KY Zip Code: 42064

8. Name: Bailey Port Inc
 Address: 750 Sher PO Box 1290 City: Calvert City KY
 Phone #: () -
 State: KY Zip Code: 42029

9. Name: Paul Schmitt
 Address: City: Paducah, KY
 Phone #: (270) 832-9675
 State: KY Zip Code: 42003

10. Name: Filly Keeling
 Address: 8450 HOUSER RD City: BOAZ
 Phone #: () -
 State: KY Zip Code: 40306



2015

Compost Recipient Log

Complete for all recipients of more than 20 cubic yards of compost within a 30-day period.

1. Name: *Bill Garrison* Phone #: *(618) 638-7473*
Address: *18 River Blvty: Golconda IL* State: *IL* Zip Code: *62935*

2. Name: *Jeremy Buschard* Phone #: *(710) 559-4476*
Address: *697 St Rt City: Melber Ky* State: *Ky* Zip Code: *42069*
2161

3. Name: *DAVID BROADWAY* Phone #: *(618) 693-5663*
Address: City: *GOLCONDA* State: *IL* Zip Code: *62938*
462 HOMBERS RD

4. Name: *Marty Barrett* Phone #: () -
Address: City: *Calvert City* State: Zip Code:
447 Griggs Rd

5. Name: *Robert Johnson* Phone #: *(270) 579-0857*
Address: City: State: Zip Code: *42029*
2080 Sharpe Sch Rd Calvert City

6. Name: Phone #: () -
Address: City: State: Zip Code:

7. Name: Phone #: () -
Address: City: State: Zip Code:

8. Name: Phone #: () -
Address: City: State: Zip Code:

9. Name: Phone #: () -
Address: City: State: Zip Code:

10. Name: Phone #: () -
Address: City: State: Zip Code:





ENERGY AND ENVIRONMENT CABINET

DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT
200 FAIR OAKS, 2ND FLOOR
FRANKFORT, KY 40601
TELEPHONE NUMBER (502) 564-6716

Annual Composting Review
Form DEP 7048A (3/92)

GENERAL INFORMATION

1. **ASSISTANCE** – Questions regarding this form may be directed in writing to the Division of Waste Management, Solid Waste Branch at the address listed above, or by calling (502) 564-6716.
2. **SUBMISSION** – Please type or print legibly in permanent ink. Submit the original of the completed form to the Division of Waste Management at the address listed above. The document must be free of errors.

SPECIAL WASTE COMPOSTING ANNUAL REVIEW

Permit Name CITY OF PADUCAH BIO SOLIDS COMPOST FACILITY Permit Number _____

Address 1120 N. 10th

City PADUCAH State KY Zip Code 42001

County MCCRACKEN Year 2015 Months (FROM TO) JANUARY TO DECEMBER

Type of special waste composted YARD DEBRIS & WASTEWATER SLUDGE

Total volume accepted this reporting period (cu.yds. or tons) 27,022.5 TONS

Total volume composted and acceptable for distribution this period (cu.yds. or tons) 20,161.5

Waste Classification: _____ Type AA Type B. (Provide copies of actual analysis.)

TONS PER MONTH ACCEPTED

SOURCE	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
LEAVES	226.8	104.4	35.2	0	0	0	0	0	0	17.8	325.6	357.6	1067.4
GRASS	0	0	0	0	2.2	6.7	0	2.2	0	1.5	0	0	12.6
BRUSH	659.6	313.3	876.1	1625	1418.9	2263.3	2173.9	2268.3	2981.1	2667.2	1753.9	1526.1	20422.78
WASTEWATER SLUDGE	397.5	396	591	450	558	406.5	897	672	472.5	742.5	720	558	6861

E6 - HHW Materials Collected Sheets

Liberty Tire Recycling, LLC
 1251 Waterfront Place, Suite 400
 Pittsburgh, PA 15222-4261
 Phone: 412.926.1500
 Fax: 412.697.2410
 www.libertytire.com



Invoice # 0000662696
 Invoice Date 4/4/2015
 Due Date 5/4/2015
 Account Number 053462
 Terms Net 30 Days
 Page 1 of 1



Bill to: City of Paducah
 PO Box 2307
 Attn: Finance
 Paducah, KY 42002-2307

INVOICE

Service Date	Work Order/Tkt PO#	Description Cust Ref #	Qty	Rate	Total
04/04/15	0002563511	Mixed Load - Load	3.00	2,000.0000	\$6,000.00
	43.16	Total tonnage for McCracken County Cleanup Day			
				Service Location Sub Total	\$6,000.00
Invoice Total:					\$6,000.00

RECEIVED
 APR 13 2015
 FINANCE DEPT

Please detach and include with payment.

FAILURE TO REMIT TO ADDRESS BELOW MAY CAUSE A PROCESSING DELAY

Please Pay This Amount

Amount of Remittance

City of Paducah
 PO Box 2307
 Attn: Finance
 Paducah, KY 42002-2307

Account Number 053462
 Invoice # 0000662696
 Invoice Date 4/4/2015
 Due Date 05/04/2015

Please Remit Payment To: LIBERTY TIRE RECYCLING LLC
 PO BOX 674803
 DETROIT MI 48267-4803



AES Environmental, LLC
PO Box 95000-3755
Philadelphia, PA 19195-0001
(724) 933-4100

MR0063

050-2209-531-20.04

Invoice Number: AES-165966

Invoice Date: 04/15/2015

Purchase Order #:

AES Ord #

2015-5-8242

Work Orders:

126019

Bill To:

Paducah Public Works
Attn: Will Shelby
1120 North 10th Street
Paducah, KY 42001

Pay 91789
PO 189202

Generator:

Paducah and McCracken County Residents
850 Burnett Street

Paducah, KY 42001

Thank you for using AES Environmental LLC for your disposal needs.

Total: \$22,824.50

Remit To: AES Environmental, LLC
PO Box 95000-3755
Philadelphia, PA 19195-0001
(724) 933-4100



AES Environmental, LLC
PO Box 95000-3755
Philadelphia, PA 19195-0001
(724) 933-4100

Invoice Number: **AES-165966**

Invoice Date: **04/15/2015**

Purchase Order #:

Generator: Paducah and McCracken County Residents
850 Burnett Street

Paducah, KY 42001

Work Order # 126019 T&D CC

Disposal

Date	Description	Quantity	Unit	Unit Price	Line Price
4/8/2015	126019-1 / MGT-7664 / HOUSEHOLD HAZ WASTE - AEROSOLS / Tri-Wall/Supersack	385.00	Pound	\$1.10	\$423.50
4/8/2015	126019-2 / MGT-7660 / HOUSEHOLD HAZ WASTE - FLAM LIQUIDS / Tri-Wall/Supersack	5,065.00	Pound	\$1.10	\$5,571.50
4/8/2015	126019-3 / MGT-7661 / HOUSEHOLD HAZ WST LIQUID PESTICIDES / Tri-Wall/Supersack	515.00	Pound	\$1.10	\$566.50
4/8/2015	126019-4 / MGT-7663 / HOUSEHOLD HAZ WST CORROSIVE LIQUID / 55G	83.00	Pound	\$1.10	\$91.30
4/8/2015	126019-4 / MGT-7663 / HOUSEHOLD HAZ WST CORROSIVE LIQUID / 5G	22.00	Pound	\$1.10	\$24.20
4/8/2015	126019-5 / MGT-7663 / HOUSEHOLD HAZ WST CORROSIVE LIQUID / 10G/15G	49.00	Pound	\$1.10	\$53.90
4/8/2015	126019-5 / MGT-7663 / HOUSEHOLD HAZ WST CORROSIVE LIQUID / 5G	16.00	Pound	\$1.10	\$17.60
4/8/2015	126019-7 / MGT-17609 / MERCURY & MERCURY MANUF. ARTICLES / 5G	2.00	Container	\$560.00	\$1,120.00
4/8/2015	126019-9 / MGT-13182 / LAB PACKS / 55G	119.00	Pound	\$1.10	\$130.90
4/8/2015	126019-9 / MGT-13182 / LAB PACKS / 5G	21.00	Pound	\$1.10	\$23.10
4/8/2015	126019-10 / MGT-21846 / FIRE EXTINGUISHERS / 55G	165.00	Pound	\$1.10	\$181.50
4/8/2015	126019-11 / MGT-7788 / HHW - PROPANE CYLINDERS / 55G	75.00	Pound	\$1.10	\$82.50
4/8/2015	126019-12 / MGT-21491 / NICKEL CADMIUM BATTERIES / 5G	5.00	Pound	\$1.10	\$5.50



AES Environmental, LLC
PO Box 95000-3755
Philadelphia, PA 19195-0001
(724) 933-4100

Invoice Number: AES-165966
Invoice Date: 04/15/2015
Purchase Order #:

Generator: Paducah and McCracken County Residents
850 Burnett Street

Paducah, KY 42001

Date	Description	Quantity	Unit	Unit Price	Line Price
4/8/2015	126019-13 / MGT-43661 / SEALED LEAD ACID BATTERIES / 5G	35.00	Pound	\$1.10	\$38.50
4/8/2015	126019-14 / MGT-21492 / DRY ALKALINE BATTERIES / 5G	85.00	Pound	\$1.10	\$93.50
4/8/2015	126019-16 / MGT-21489 / STANDARD FLUORESCENT BULBS / Lamp Box	3,740.00	Lamp (ft.)	\$0.10	\$374.00
4/8/2015	126019-17 / MGT-32037 / COMPACT FLUORESCENT BULBS / 20G/30G	25.00	Lamp (ea.)	\$0.50	\$12.50
4/8/2015	126019-18 / MGT-7662 / USED OIL / 55G	1,425.00	Pound	\$1.10	\$1,567.50
4/8/2015	126019-19 / MGT-7789 / FREON CYLINDERS / 5G	30.00	Pound	\$1.10	\$33.00
4/8/2015	126019-20 / MGT-37366 / OXYGEN CYLINDERS / 5G	10.00	Pound	\$1.10	\$11.00
4/8/2015	126019-21 / MGT-7659 / HOUSEHOLD HAZ WST NON REG LIQUIDS / 55G	415.00	Pound	\$1.10	\$456.50
4/15/2015	126019(1)-1 / MGT-7659 / HOUSEHOLD HAZ WST NON REG LIQUIDS / Rolloff/Dump	10,860.00	Pound	\$1.10	\$11,946.00

Work Order Subtotal \$22,824.50

Invoice Total \$22,824.50

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on site (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KY - CESQG	Manifest Document No. 128019(1)	2. Page 1 of 1
3. Generator's Name and Mailing Address: Paducah and McCracken County Residents 850 Burnett Street Paducah, KY 42001				
4. Generator's Phone () (270)444-8567				
5. Transporter 1 Company Name American Transportation Solutions, LLC.	6. US EPA ID Number PAR000521740	A. State Transporter's ID		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter 1 Phone (724)933-4100		
9. Designated Facility Name and Site Address AES Environmental, LLC. - Calvert 1689 Shar-Cal Road Calvert City, KY 42029	10. US EPA ID Number KYD985073198	C. State Transporter's ID		
		D. Transporter 2 Phone () -		
		E. State Facility's ID		
		F. Facility's Phone (270)395-0504		
11. WASTE DESCRIPTION		12. Containers	13. Total Quantity	14. Unit Wt/Vol
		No.	Type	
a. 1: Non-RCRA liquids, D.O.T. Non-regulated (Latex Paint)		1	CM	20
b.				Y
c.				
d.				
G. Additional Descriptions for Materials Listed Above 1:MGT-7659 - HOUSEHOLD HAZ WST NON REG LIQUIDS Box # 1-1		H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information AES 24 Hour Emergency Number: (412) 942-9241				
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.				
Printed/Typed Name William Shelby		Signature <i>William Shelby</i>		Date 4/4/15
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature <i>Randy Hearrell</i>		Date 4/4/15
Printed/Typed Name RANDY HEARRELL		Signature		Date
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Date
Printed/Typed Name		Signature		Date
19. Discrepancy Indication Space				
20. Facility Owner or Operator, Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.				
Printed/Typed Name <i>[Signature]</i>		Signature <i>[Signature]</i>		Date 4/5/15

NON-HAZARDOUS WASTE

GENERATOR

RECEIVED BY FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KY - CESQG		Manifest Document No. 126010	2. Page 1 of 3
3. Generator's Name and Mailing Address Paducah and McCracken County Residents 850 Burnett Street Paducah, Ky 42001					
4. Generator's Phone () (270)444-9567					
5. Transporter 1 Company Name American Transportation Solutions, LLC.		6. US EPA ID Number PAR000521710		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone (720)939-4100	
9. Designated Facility Name and Site Address AES Environmental, LLC - Calvert 1689 Shar-Cal Road Calvert City, Ky 42029		10. US EPA ID Number KYD985073198		C. State Transporter's ID	
				D. Transporter 2 Phone ()	
				E. State Facility's ID	
				F. Facility's Phone (270)395-0501	
11. WASTE DESCRIPTION					
a. 1 UN1950, Aerosols, flammable, (each not exceeding 1 L capacity), 2 (1 aerosols)		12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
		1	CF	385 500	P
b. 2 UN1993, Flammable liquids, n.o.s., 3, PG-II (Paint Related Materials)		9	CF	5065 5000	P
c. 3 UN2902, Pesticides, liquid, toxic, n.o.s., 6 I, PG-II		1	CF	515 500	P
d. 4 UN1760, Corrosive liquids, n.o.s. (Sulfuric, Hydrochloric Acid), 9, PG-III		4	DF	105 350	P
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above	
1. ERG#128 MGT-7661 - HOUSEHOLD HAZ WASTE - AEROSOLS					
2. ERG#128 MGT-7660 - HOUSEHOLD HAZ WASTE - FLAM LIQUIDS					
3. ERG#151 MGT-7661 - HOUSEHOLD HAZ WST LIQUID PESTICIDES					
4. ERG#151 MGT-7663 - HOUSEHOLD HAZ WST CORROSIVE LIQUID					
15. Special Handling Instructions and Additional Information AES 24 Hour Emergency Number: (412) 942-9241					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name		Signature		Date	
<i>William Shelby</i>		<i>William Shelby</i>		9/9/15	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Date	
<i>Steve Workman</i>		<i>Steve Workman</i>		04/04/15	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Date	
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name		Signature		Date	
<i>Steve Workman</i>		<i>Steve Workman</i>		4/08/15	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST
(Continuation Sheet)

19. Generator ID Number

KY - CESQG

20. Page

2

21. Waste Tracking Number

128018

22. Generator's Name
Paducah and McCracken County Residents
850 Burnett Street
(270)444-8587
Paducah, KY 42001

23. Transporter _____ Company Name

U.S. EPA ID Number

24. Transporter _____ Company Name

U.S. EPA ID Number

25. Waste Shipping Name and Description

26. Containers

No.

Type

27. Total Quantity

28. Unit Wt./Vol.

5: UN1780, Corrosive liquids, n.o.s. (Sodium Hydroxide, Potassium Hydroxide), 8, PG-III

2

DF

65
85

P

~~6: UN1780, Corrosive liquids, n.o.s. (Ammonia), 8, PG-III~~

~~P~~

7: UN3506, Mercury [contained in manufactured articles], 8 (6.1), PG-III

2

DF

10
15

P

~~8: UN1993, Flammable liquids, n.o.s. (Kerosene), 3, PG-II~~

~~P~~

9: UN1479, Oxidizing solid, n.o.s., 5.1, PG-II

3

DF

140
350

P

10: UN1044, Fire extinguishers, 2.2

(30 cyl)

2

DM

165
200

P

11: UN1978, Propane, 2.1 (8 cyl)

2

DM

75
200

P

12: UN3028, Batteries, dry, containing potassium hydroxide solid, 8, PG-III (Universal Waste Nickel Cadmium Batteries)

1

DF

5

P

13: UN2704, Batteries, wet, filled with acid, 8, PG-III (Universal Waste Sealed Lead Acid Batteries)

1

DF

35
25

P

14: Non-RCRA solids, D.O.T. Non-regulated (Universal Waste Alkaline Batteries)

2

DF

75
85

P

29. Special Handling Instructions and Additional Information

5:ERG#154: MGT-7683 - HOUSEHOLD

8:ERG#128: MGT-7660 - HOUSEHOLD

12:ERG#154: MGT-21491 - NICKEL CA

6:ERG#154: MGT-7683 - HOUSEHOLD

9:ERG#140: MGT-13182 - LAB PACKS

13:ERG#154: MGT-43861 - SEALED LE

7:ERG#172: MGT-17809 - MERCURY &

10:ERG#128: MGT-21846 - FIRE EXTIN

14:MGT-21492 - DRY ALKALINE BATTE

11:ERG#115: MGT-7799 - UNW. BPAE

30. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

31. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

32. Discrepancy

GENERATOR

TRANSPORTER

DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST
(Continuation Sheet)

19. Generator ID Number

KY - CESQG

20. Page

3

21. Waste Tracking Number

126019

22. Generator's Name
Paducah and McCracken County Residents
850 Burnett Street
Paducah, KY 42001

23. Transporter _____ Company Name

U.S. EPA ID Number

24. Transporter _____ Company Name

U.S. EPA ID Number

25. Waste Shipping Name and Description	26. Containers		27. Total Quantity	28. Unit Wt./Vol.
	No.	Type		
15: UN3090, Lithium metal batteries including lithium alloy batteries, 9, PG-II				P
16: Non-RCRA solids, D.O.T. Non-regulated (Standard Fluorescent Bulbs)	19	CF	935 800	P
17: Non-RCRA solids, D.O.T. Non-regulated (Compact Fluorescent Bulbs)	1	DF 350	25 35	P
18: Non-RCRA liquids, D.O.T. Non-regulated (Used Oil)	3 4	DM	1425 1350	P
19. UN1046, Helium, 2.2	5	CY	30 40	P
20 UN1072, Oxygen, 5.1 (2 cylinders)	1	DF	10	P
21 Non RCRA liquids, D.O.T. Non regulated (Detergent)	1	DF	415 450	P

29. Special Handling Instructions and Additional Information
 15:ERG#138: MGT-32038 - LITHIUM B; 18:MGT-7662 - USED OIL
 16:MGT-21489 - STANDARD FLUORES
 17:MGT-32037 - COMPACT FLUORES

30. Transporter _____ Acknowledgment of Receipt of Materials
 Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____

31. Transporter _____ Acknowledgment of Receipt of Materials
 Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____

32. Discrepancy _____

GENERATOR

TRANSPORTER

DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. KY - CESQG		Manifest Document No. 120019(1)	2. Page 1 of 1
3. Generator's Name and Mailing Address Paducah and McCracken County Residents 850 Burnett Street Paducah, KY 42001					
4. Generator's Phone () (270) 444-8567					
5. Transporter 1 Company Name American Transportation Solutions, LLC.		6. US EPA ID Number PA00052174D		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone (724) 933-4100	
9. Designated Facility Name and Site Address AES Environmental, LLC. - Calvert 1000 Shar-Cal Road Calvert City, KY 42028		10. US EPA ID Number KYD085073198		C. State Transporter's ID	
				D. Transporter 2 Phone ()	
				E. State Facility's ID	
				F. Facility's Phone (270) 395-0504	
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit Wt./Vol.
			No.	Type	
a. 1. Non-RCRA liquids, D.O.T Non-regulated (Latex Paint)			1	CM	20 Y
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above 1. MGT-7059 - HOUSEHOLD HAZ WST NON REG LIQUIDS <i>Box # 1-1</i>			H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information AES 24 Hour Emergency Number. (412) 942-9241					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name <i>William Shelby</i>				Signature <i>William Shelby</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date 4 4 15	
Printed/Typed Name RANDY HEARL				Signature <i>Randy Hearl</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials				Date 4 4 15	
Printed/Typed Name				Signature	
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name <i>Steve Murrell</i>				Signature <i>Steve Murrell</i>	
				Date 4 5 15	

NON-HAZARDOUS WASTE GENERATOR

SETTLEMENT REPORT

COK - Greater Paducah Sustainability Proj
RecycleNow



Lot #: 22593

PO #:

Ref #:

Received: April 09, 2015

SHIPPED FROM	SHIPPED TO	BILLED TO
COK - Greater Paducah Sustainability Proj Merle Paschedag 1830 North 8th Street Paducah, KY 42001 BOL:	GES - Georgetown 109 Triport Road Georgetown, KY 40324 Acct Mngr: Jerry Townsend Phone: 513-392-1747	COK - Greater Paducah Sustainability Proj ATT: Merle Paschedag

RECYCLING FEES							
MATERIAL	GROSS (lb)	TARE (lb)	NET (lb)	ITEM COUNT	FEE	(CRDT) / CRG	NOTES
CRT	1,245.000	42	1,203.000	N/A	\$0.000 Per lb	\$0.00	N/A
Desktop: Small	1,060.000	0	1,060.000	53	-\$0.180 Per lb	(\$190.80)	N/A
Laptop	45.000	0	45.000	3	-\$0.200 Per lb	(\$9.00)	N/A
Laser Printer: Medium	100.000	0	100.000	2	\$0.000 Per lb	\$0.00	N/A
Laser Printer: Small	175.000	0	175.000	5	\$0.000 Per lb	\$0.00	N/A
Misc. Electronics	355.000	0	355.000	N/A	\$0.000 Per lb	\$0.00	N/A
Network Gear	150.000	0	150.000	N/A	-\$0.050 Per lb	(\$7.50)	N/A
Server: Small	200.000	0	200.000	7	-\$0.140 Per lb	(\$28.00)	N/A
Telephone	45.000	0	45.000	15	-\$0.050 Per lb	(\$2.25)	N/A
TV - Obsolete	10,994.000	714	10,280.000	N/A	\$0.100 Per lb	\$1,028.00	N/A
	14,369.000	756	13,613.000	85		\$790.45	

Total	\$790.45
--------------	-----------------



ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear
Governor

Department for Environmental Protection
Division of Waste Management
200 Fair Oaks Ln., 2nd Floor
Frankfort, Kentucky 40601-1190
www.kentucky.gov

Leonard K. Peters
Secretary

October 9, 2014

Gayle Kaler, Mayor
City of Paducah
P.O. Box 2267
Paducah, KY 42002-2267

RE: 2013-2014 Ky. Pride Fund HHW Grant Refund Request

Dear Mayor Kaler:

The City of Paducah/McCracken County joint partnership was awarded a Household Hazardous Waste grant for \$30,200.00 to conduct a Household Hazardous Waste collection event. The final report submitted to the Division of Waste Management (DWM) is a compilation of all expenditures, including grant funds and a required 25 percent match either in cash or in-kind services, of the grant total.

According to the Close-out Report, a total of \$20,128.40 was spent on the granted collection event. Therefore, the review indicates \$10,071.60 in grant funds was unspent and must be returned to the division.

Please submit a check by November 25, 2014 made payable to the Kentucky State Treasurer for \$10,071.60 and mail to:

J. R. Holt, Acting Supervisor
Recycling Assistance Section
Division of Waste Management
200 Fair Oaks Lane, 2nd Floor
Frankfort, KY 40601

Failure to return the \$10,071.60 in grant funds may result in the City of Paducah/McCracken County partnership be declared ineligible for grant funding in the future. If you have any questions, please feel free to contact me at 502-564-6716, ext. 4635.

Sincerely,

A handwritten signature in black ink, appearing to read "J. R. Holt".

J. R. Holt, Acting Supervisor
Recycling Assistance Section

c: Mike Orenduff, Solid Waste Supervisor

RLA File

2013-2014 Ky. Pride Fund Household Hazardous Waste Management Grant				
City of Paducah/McCracken Co. Fiscal Court				
RECYCLING GRANT REQUESTS	REQUESTS GRANTED	Amount Spent	Difference	Amount to Refund
American Environmental	\$30,200.00	\$20,128.40	\$10,071.60	\$10,071.60
GRANTED AMOUNT	\$30,200.00			
AMOUNT SPENT		\$20,128.40		
DIFFERENCE + -			\$10,071.60	
Amount to REFUND				\$10,071.60

Agenda Action Form Paducah City Commission

Meeting Date: May 12, 2015

Short Title: Authorize Payment to AES Environmental, LLC for Household Hazardous Waste Collected during 2015 Clean-Up Day

Ordinance Emergency Municipal Order Resolution Motion

Staff Work By: Chris Yarber, EPW Operations Manager
Angela Weeks, EPW Project Manager

Presentation By: Rick Murphy, P.E., City Engineer-Public Works Director

Background Information:

On April 4, 2015 the City of Paducah co-sponsored along with the county a free Clean-Up Day to assist all property owners with disposal of various waste. Household hazardous waste was one item collected on this day. In accordance with Kentucky requirements, a Kentucky certified hazardous waste service is required to dispose of all hazardous waste. AES Environmental LLC, with an office in Calvert City, KY, is the only certified hazardous collector who is a vendor with the Commonwealth of Kentucky within this area.

Therefore, the service of AES Environmental LLC was requested to collect and dispose of household hazardous waste during the free Clean-Up Day. This year, the collection of household hazardous waste totaled \$22,824.50. Last year's collection totaled \$23,065.40. The partial funding of the free Clean-Up Day is provided by a grant from the Kentucky Division of Waste Management.

Goal: Strong Economy Quality Services Vital Neighborhoods Restored Downtowns

Funds Available: Account Name: Haz Waste
Project Number: MR0063
Account Number: 050-2209-531-2004

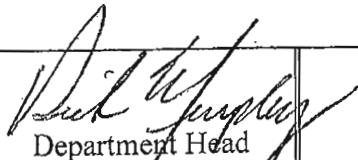
Finance

Staff Recommendation:

To adopt an Ordinance authorizing the payment of \$22,824.50 to AES Environmental LLC, for collection and disposal of household hazardous waste collected during the free Clean-Up Day on April 4, 2015.

Attachments:

Invoice

 Department Head	City Clerk	City Manager
--	------------	--------------

City Of Paducah

300 South 5th
Paducah, Kentucky 42003
270-444-8511 fax

Invoice No. EPW

INVOICE

Customer

Name McCracken County
Address 300 South 7th Street
City Paducah State KY ZIP 42003
Phone 444-8682

Date 6/17/2015
Order No.
Rep
FOB

Qty	Description	Unit Price	TOTAL
2	Purchase Area Family Magazine (Advertisement)	\$209.00	\$418.00
2	Paducah Sun (Advertisement)	\$772.15	\$1,544.30
1	CWI / Republic Services	\$10,994.82	\$10,994.82
1	Greater Paducah Sustainability	\$2,056.00	\$2,056.00
1	AES Environmental, LLC	\$22,824.50	\$22,824.50
1	Liberty Tire	\$6,000.00	\$6,000.00
	Kentucky Division of Waste Management		
1	Grant Refund 2014	\$10,071.60	\$10,071.60
1	Zebra Graphics (Signs)	\$429.00	\$429.00
1	Lowes (Ties for Signs)	\$14.33	\$14.33
1	Meals & Drinks	\$433.18	\$433.18
1	Meals & Drinks	\$67.28	\$67.28
-1	Household Hazardous Waste Grant	\$26,800.00	(\$26,800.00)
-1	Proceeds From Recycled Goods		\$0.00
-1	McCracken County Meals & Drinks Credit	\$433.18	(\$433.18)
-1	City of Paducah (Half of Expenses)	\$14,026.51	(\$14,026.51)
-1	Overcharge-2014 Clean Up(Did not credit meals properly)	\$433.18	(\$433.18)
	SubTotal		\$13,160.14

Payment Details

- Cash
 Check
 Credit Card

Name
CC #

Expires

Shipping & Handling \$0.00
Taxes

TOTAL **\$13,160.14**

Office Use Only

STEVEN L. BESHEAR
GOVERNOR



LEONARD K. PETERS
SECRETARY

ENERGY AND ENVIRONMENT CABINET

DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT
200 FAIR OAKS, 2ND FLOOR
FRANKFORT, KY 40601-1190
www.ky.gov

June 24, 2015

The Honorable Gayle Kaler
City of Paducah
City of Paducah Planning Dept.
PO Box 2267
Paducah, KY 42002-2267

RE: 2014-2015 Ky. Pride Fund HHW Grant Refund Request

Dear Mayor Kaler:

The City of Paducah/McCracken County was awarded a Household Hazardous Waste grant for \$26,800.00 for a Household Hazardous Waste collection event. The final report submitted to the Division of Waste Management (DWM) is a compilation of all expenditures including grant funds and a required 25 percent match either in cash or in-kind services, of the grant total.

According to the Final Report, a total of \$26,624.50 was spent on the granted collection event. Therefore, the review indicates \$2,175.50 in grant funds was unspent and must be returned to the division. The Liberty Tire entry for \$2,175.50 was not an approved grant expenditure.

Please submit a check by July 31, 2015 payable to the Kentucky State Treasurer for \$2,175.50 and mail to:

Frederick Holt, Supervisor
Recycling Assistance Section
Division of Waste Management
200 Fair Oaks Lane, 2nd Floor
Frankfort, KY 40601

Failure to return the \$2,175.50 in grant funds may result in the City of Paducah/McCracken County Fiscal Court being declared ineligible for grant funding in the future. If you have any questions, please feel free to contact me at 502-564-6716, ext. 4635.

Sincerely,

A handwritten signature in black ink, appearing to read "Frederick Holt".

Frederick Holt, Supervisor
Recycling Assistance Section

c: Honorable Bob Leeper
McCracken County Judge Executive

Sheryl Chino, Project Contact

RLA File

KentuckyUnbridledSpirit.com



An Equal Opportunity Employer
M/F/D

2014-15 Ky. Pride Fund Household Hazardous Waste Management Grant City of Paducah/McCracken County Fiscal Court				
HOUSEHOLD HAZARDOUS GRANT REQUESTS	REQUESTS GRANTED	Amount Spent	Difference	Amount to Refund
American Environmental	\$25,000.00	\$22,824.50	\$2,175.50	\$2,175.50
Paducah Sun ads	\$1,800.00	\$1,800.00	0	0
GRANTED AMOUNT TOTAL	\$26,800.00			
AMOUNT SPENT TOTAL		\$24,624.50		
DIFFERENCE (+, -)			\$2,175.50	
Amount to REFUND				\$2,175.50

E7 - Municipal Facility BMP Lists

Municipal Faci. BMP Inventory

<u>Location</u>	<u>Address</u>	<u>Facility</u>	<u>BMP</u>
Public Works Building	1120 North 10th St.	Salt Storage Dome	Covered Storage and Drains to Combined Sewer
		Salt Brine System	Secondary Containment and Drains to Combined Sewer
		Wash Bay (Inside Maintenance Garage Area)	Drains to Combined Sewer not part of MS4
		Trash Truck Parking	Covered Parking and Drains to Combined Sewer
Fire Station #1	301 Washington	Floor Wash Drain	Connected to San Sewer (Not MS4)
Fire Station #2	3000 Wayne Sullivan Drive		
Fire Station #3	1421 Friedman Lane	Floor Wash Drain	Connected to San Sewer (Not MS4)
Fire Station #4	3189 Jackson Street	Garage Drain	Connected to San Sewer (Not MS4)
Fire Station #5	1714 Broadway	Garage Drain	Connected to San Sewer (Not MS4)
Police Department	1400 Broadway		
Parks Building	1400 HC Mathis Dr		
Floodwall Shop	1417 South 4th Street		
City Hall	300 South 5th St.	UST for Emergency Generator	Cathodic Protection (Test every 3 years)
Compost Facility	1560 North 8th St.	Settling Pond	Clean as needed
		Concrete Intercepting Drainage Ditch	Drains to Settling Pond

E8 - Spring Clean Up Day Count Sheets

**SPRING CLEAN UP DAY
2015
CHECK IN SHEET**

91 ~~107~~
~~99~~

City

|||

94

County

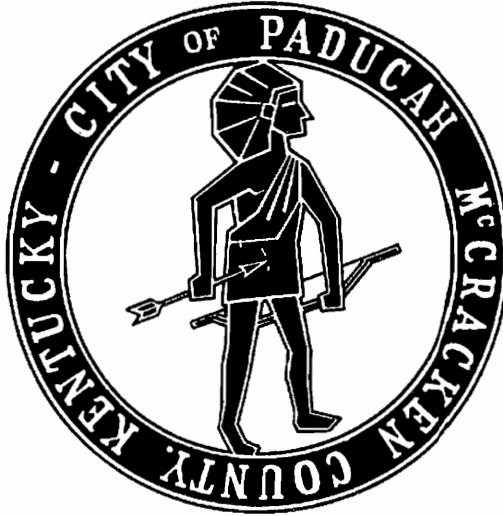
189 ~~197~~
~~196~~

|||||

196

290

**E9 - Compost Yard
Groundwater Protection Plan**



Groundwater Protection Plan

FOR

City of Paducah
Special Waste Compost Facility

1560 North 8th Street
Paducah, KY 42001

September 28, 2015

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INTRODUCTION

Purpose of the Plan

The purpose of the Groundwater Protection Plan (GPP) is to prevent or minimize the accidental release of potentially hazardous pollutants to the groundwater. The GPP established standard practices to be followed to attain this goal. The purpose of this plan is to describe procedures implemented by the City of Paducah Engineering & Public Works Departments to prevent discharges from occurring. The City of Paducah's Engineering and Public Works Department acknowledges its responsibility to the environment and provides the resources necessary to fully implement this Plan. This GPP has been prepared in accordance with 401 KAR 5:037.

Part 1: General Facility Information

1.1 Name and Location of Facility

The City of Paducah Biosolids Composting Facility is located south of the Ohio River on the dry side of the flood levee. Below is the general information for the facility:

Facility Owner:	City of Paducah
Facility Name:	Biosolids Composting Facility
Address:	1560 North 8 th Street Paducah KY, 42001 (270) 444-8511
County:	McCracken
Latitude:	37°05'50.0"N
Longitude:	88°37'10.6"W
Mailing Address:	300 South 5 th Street P.O. Box 2267 Paducah, KY 42002
Type:	Biosolids Composting Facility
Facility Contacts:	Person Developing & Responsible for Implementing the GPP: Eric Hickman, P.E., Storm Water & Drainage Engineer 300 South 5 th Street P.O. Box 2267 Paducah, KY 42002 Work: (270) 444-8511 ehickman@paducahky.gov

The Facility Diagram included in Appendix A shows the location and physical layout of the facility of which includes the bagged leaf area, wood chips area, windrows, runoff trench, settling basin, aboveground storage tank (AST) for fuel, and the compost yard.

1.2 Type of Facility

The City of Paducah owns and operates the Biosolids Composting Facility located at 1560 North 8th Street. The facility produces composted biosolids along with wood chips that are sold to the public. The composted biosolids uses wastewater sludge produced during wastewater treatment process from the Joint Sewer Agency (JSA). The wastewater sludge is combined with a bulking agent of which includes wood chips, grass, brush and leaves. These are blended together and placed in windrows to produce the optimum environment for natural microbial breakdown and digestion.

Using the windrow composting method, the windrow's internal temperature rises to a temperature of 131 degrees Fahrenheit or higher and is maintained at that level for 15 consecutive days or longer. To assure even heating and proper oxygen content, the windrow is turned five times during the 15 day period. This process assures the destruction of all pathogens to safe levels and reduces offensive odors and the vector attracting properties of the compost.

Before composted biosolids are distributed, the finished compost is tested for metal concentrations and pathogen removal that meet stringent state and federal regulations. Quality control at the compost facility is directed by rigid state and federal regulations and the commitment by the City of Paducah to produce a quality product. The compost can be used as a soil amendment for flower pots, flower beds, roses, blooming bulbs, vegetables, starting a lawn, maintaining a lawn, gardens, berries, ornamental shrubs and around trees.

1.3 Statement of GPP Policy

The City of Paducah is committed to the prevention of uncontrolled discharges to the groundwater and the environment. This will be achieved through regular reviews, updates, and implementation of this GPP for the Biosolids Composting Facility.

1.4 Location of GPP

A complete copy of this GPP is on file at the facility, located at Engineering and Public Works office on the second floor of City Hall and also available electronically. The compost yard operation hours are Monday through Saturday 7:00 AM to 3:00 PM.

1.5 Plan Review

The Storm Water & Drainage Engineer will review the GPP annually and evaluate the Plan for any change in facility design, construction, operation, or maintenance that affects the facility's potential for a discharge, including, but not limited to:

- commissioning or decommissioning of containers
- reconstruction, replacement, or installation of drainage facilities
- construction or demolition that might alter surface runoff flow

Part 2: Regulated Activities and Associated Groundwater Protection Practices

2.1 Bulk Storage/Handling of Raw Materials and Substances Held for Recycling

a. Solid Waste

The compost facility is available for citizens to provide free drop off of composting material of which include grass clippings, leaves, trees, and brush. There are separate areas within the compost yard that these waste are placed before they are introduced into the process (i.e. bagged leaf area, wood chip area, brush pile). These solid waste streams are recycled and used in the biosolid composting process.

b. Special Waste

Special waste generated include the biosolid compost product of which is a combination of wastewater sludge mixed with a bulking agent of wood chips, grass, leaves, and brush. The biosolids compost is formed into windrows and is kept on the concrete pad of which prevents any infiltration into the groundwater. There are typically five to eight windrows under process at a time.

c. Diesel Storage

Diesel is stored in an above ground storage tank with a capacity of 500 gallons. The storage container is a double walled steel tank. The tank is located adjacent to the sludge pit.

2.2 Impoundment in Surface Impoundments

a. Settling Basin

A settling basin located on the northwest corner of the property catches any surface runoff that is not conveyed in the concrete runoff trench. The pond outlets into the waste water treatment plant process and is discharged via KPDES permitted discharge. This basin is underlain by naturally occurring clays.

Part 3: Practices Selected to Protect Groundwater from Pollution

3.1 Bulk Storage/Handling of Raw Materials and Substances Held for Recycling

a. Solid Waste

Solid wastes are stored in staging areas before they are introduced to the biosolids composting process. The runoff from these areas drains to a concrete runoff trench on the east side of the property and to the settling basin at the northwest corner of the property. The trench and settling basin return to the wastewater treatment plant where it undergoes treatment before it is discharge via KPDES permitted discharge into the Ohio River. Due to the nature of the waste and short duration of storage on site, these materials are not a threat to groundwater.

b. Special Waste

The biosolids compost is formed into windrows and is kept on the concrete pad of which prevents any infiltration into the groundwater. There are typically five to eight windrows under process at a time. Runoff from the windrows is directed to the concrete drainage trench that runs from south to north capturing all of the runoff from the windrows. The trench returns to the wastewater treatment plant where it undergoes treatment before it is discharge via KPDES permitted discharge into the Ohio River. The finished biosolids compost product is placed in the compost yard and is sold to the public. The pamphlet shown in Appendix D is given to those who purchase the compost product. The pamphlet directs the purchaser of the proper application guidelines for the compost. The pamphlet states: "Composted biosolids can be applied to home yards, gardens, flower beds, golf courses, public lands, agriculture or forest lands, pasture and grazing lands. Composted biosolids, chemical fertilizers, pesticides, and herbicides should not be applied near surface of groundwater, well heads, sinkholes, or on land with excessive slopes such that the compost could be carried off-site during rain events."

c. Fuel Storage

Release from this tank would be contained in the double wall steel tank and would not be a threat to the groundwater.

3.2 Impoundment in Surface Impoundments

a. Settling Basin

A settling basin located on the northwest corner of the property catches any surface runoff that is not conveyed in the concrete runoff trench. The pond outlets into the waste water treatment plant process and is discharged via KPDES permitted discharge. This basin is underlain by naturally occurring clays. Therefore, there is little impact to groundwater infiltration at this location.

3.3 Industrial Transfer

Industrial transfer of materials takes place as follow:

a. Mobile Equipment Fuel Storage

This tank is filled from bulk trucks. An accidental spill during the transfer of fuel would ultimately end up in the wastewater treatment process and would not be a threat to the groundwater.

Part 4: Implementation, Training, Inspections, and Certification

4.1 Implementation Schedule

The practices outlined in this Plan are standard practices and are currently implemented.

4.2 Training


All compost yard employees receive training on the Groundwater Protection Plan. This training is presented annually and covers prevention of accidental releases, good housekeeping practices, general safety guidelines, and notification procedures.

4.3 Inspections

All facilities covered in this plan are inspected at least annually, if not on a daily by visual inspection. The records are kept for a minimum of six (6) years.

4.4 Certification

I, Eric Hickman, Storm Water & Drainage Engineer, certify that this Groundwater Protection Plan complies with the requirements set forth in 401 KAR 5:037. I have read the terms of this plan and will implement its provisions.

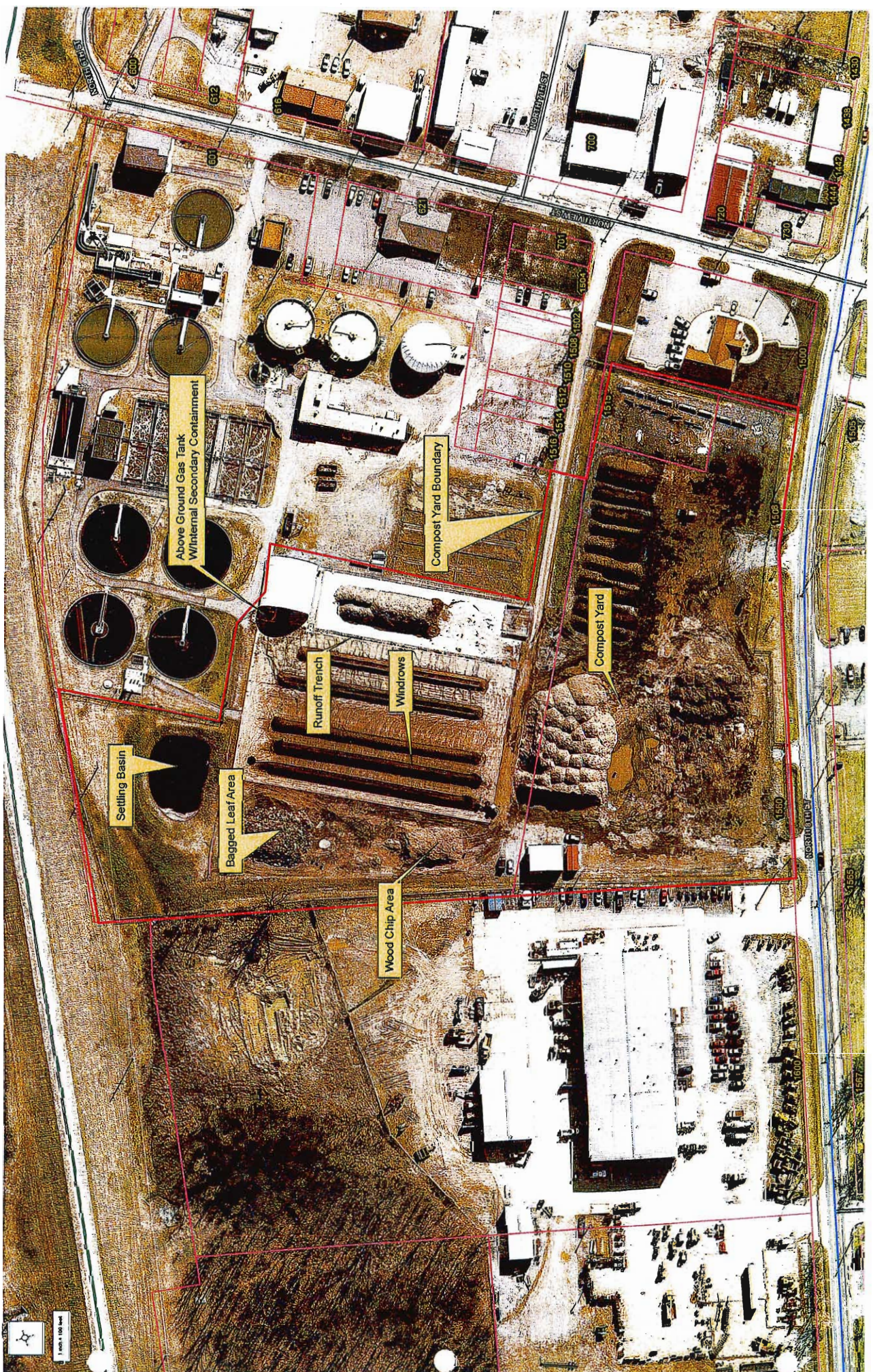


Eric J. Hickman, P.E.
Storm Water & Drainage Engineer

9/28/15
Date

Appendices

APPENDIX A
Site Plan and Facility Diagram



Above Ground Gas Tank
With Internal Secondary Containment

Compost Yard Boundary

Compost Yard

Runoff Trench

Windrows

Settling Basin

Bagged Leaf Area

Wood Chip Area



APPENDIX B
Inspection Sheet

	Location	Signs of Release to Groundwater	Corrective Action Required	Description and Comments
Bulk Containers				
Diesel Fuel Tank	Northeast side of property adjacent to sludge tank			500 Gallon double walled steel aboveground storage tank
Solid Waste Areas				
Bagged Leaf Area	Northwest side of property			
Wood Chip Area	Westside of property			
Brush Area	Southside of property			
Wood Chips	Southside of property			
Special Waste Areas				
Windrows	Center of property			Located on concrete pad
Drainage Systems				
Settling Basin	Northwest corner of property			Outlets into Joint Sewer Agency wastewater treatment plant
Runoff Trench	East of windrows			Outlets into Joint Sewer Agency wastewater treatment plant
Signature:	_____			
Date of Inspection:	_____			

APPENDIX C
Training Sign-In Sheet

APPENDIX D
Biosolids Compost Yard Public Pamphlet