

**KENTUCKY-AMERICAN WATER COMPANY**  
**CASE NO. 2008-00427**  
**COMMISSION STAFF'S SECOND REQUEST FOR INFORMATION**

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**Witness: Keith L. Cartier**

20. Refer to the Direct Testimony of Keith Cartier at 12. Mr. Cartier states that “Chemical expenses are projected based on the most recent three-year average consumption for each chemical (in pounds-per-million gallon treated), adjusted if warranted based on operating experience.”
- a. Provide the calculations and state all assumptions used to derive the chemical usages.
  - b. Cite each instance where projected chemical usage was adjusted to reflect operating experience. Provide a detailed explanation for each adjustment in usage due to operating experience.

**Response:**

- a. 3-year historical averages (sum of chemical usage over three-year period divided by 3) are included on the attached schedule for Central and Northern Divisions. All assumptions are provided as well.
- b. See attached.

For the electronic version, refer to KAW\_R\_PSCDR2#20\_010809.pdf.

**RICHMOND ROAD STATION**

3-year averages

	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT	OCT	NOV	DEC	YEAR
	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG
FERRIC CHLORIDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POLYALUMINUM CHLORIDE	460.32	329.63	353.19	353.03	332.10	301.70	279.17	355.67	296.27	329.82	395.87	369.06	343.96
CHLORINE	60.11	49.75	56.98	67.04	64.95	68.54	73.19	72.34	56.98	63.07	59.98	50.71	62.30
FLUORIDE	39.42	34.15	38.50	37.63	38.86	39.76	45.86	36.32	54.19	37.82	36.93	31.50	39.28
POWDERED CARBON	1.58	0.44	0.90	6.31	6.04	1.31	0.91	1.92	8.72	7.01	2.66	3.42	3.51
COPPER													
SULFATE	6.78	0.00	12.93	0.00	4.92	0.00	10.87	0.00	5.44	4.01	5.01	12.32	5.03
POLYMERS-1	20.67	14.87	18.61	19.19	20.59	18.92	16.59	19.22	30.56	21.64	19.20	17.35	19.80
CORROSION INHIBITOR	32.11	24.16	25.32	31.49	28.81	25.81	27.04	26.09	35.39	30.40	29.81	30.17	28.88
SODIUM CHLORIDE	6.33	4.21	8.36	4.45	8.03	4.79	5.38	2.36	8.45	6.67	6.93	6.37	5.92
AMMONIA	10.92	6.19	6.56	4.57	8.96	15.74	18.63	15.17	18.79	9.73	7.17	6.15	9.47
CAUSTIC SODA POT.	0.72	0.00	1.19	1.51	12.89	49.49	70.10	67.24	67.90	33.99	31.90	16.41	32.06
PERMANGANATE	6.35	2.89	3.77	6.64	3.80	0.91	1.17	1.98	5.57	0.72	3.55	2.77	3.20
POLYMERS - 2	0.01	0.01	0.00	0.01	0.01	0.00	0.00	0.04	0.39	0.00	0.00	0.03	0.04
TOTAL	620.50	511.62	487.67	568.30	646.07	587.73	555.54	642.68	595.25	627.82	595.03	590.96	586.82

**KENTUCKY RIVER STATION**

3-year averages

	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT	OCT	NOV	DEC	YEAR
	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG
CORROSION INHIBITOR	26.81	26.47	26.54	28.10	28.30	28.35	27.15	25.21	29.32	31.15	33.25	35.32	28.64
CHLORINE	48.89	45.43	45.94	47.73	49.00	55.68	60.74	65.73	63.59	58.67	56.11	50.02	54.81
FLUORIDE	37.44	37.29	37.37	39.03	39.46	40.67	39.62	37.35	33.20	36.47	35.97	35.47	37.49
POWDERED CARBON	1.68	0.10	0.00	0.00	0.02	5.54	5.15	0.00	0.17	12.39	0.00	0.00	2.10
POLYMERS-1	16.59	17.60	20.54	21.07	19.28	18.10	22.53	20.74	22.41	17.85	20.02	15.35	19.51
SODIUM CHLORIDE	3.80	4.44	3.91	1.71	1.62	5.01	2.00	2.47	3.91	3.51	3.61	3.77	3.25
AMMONIA	8.52	8.89	8.78	6.19	7.82	7.63	8.32	8.04	9.23	7.72	8.96	9.15	8.25
CAUSTIC SODA POT.	15.66	1.52	5.26	27.74	13.28	26.47	51.23	83.27	90.61	92.35	26.39	4.91	39.39
PERMANGANATE	0.00	0.00	0.00	0.00	0.00	0.08	1.41	-0.14	0.00	3.46	0.45	0.00	0.42
POLYMERS - 2	1.98	1.80	1.77	1.45	1.52	1.37	1.36	1.22	1.71	1.52	1.66	1.24	1.52
FERRIC CHLORIDE	60.47	10.35	9.19	32.64	10.88	47.92	43.87	200.27	255.70	301.00	77.45	80.86	99.83
POLYALUMINUM CHLORIDE	269.75	162.15	196.59	238.82	176.92	169.27	182.10	184.24	211.88	168.39	130.37	258.46	193.95
TOTAL	479.95	336.28	369.94	466.55	431.47	426.46	478.49	715.56	698.18	746.68	431.37	594.34	523.01

**TOTAL RRS and KRS**

3-year averages

	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT	OCT	NOV	DEC	YEARLY
ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG	LBS/MG
POLYALUMINUM													
CHLORIDE	304.90	220.94	227.48	270.55	253.89	206.55	207.96	253.38	220.79	226.85	205.04	325.29	241.50
CHLORINE	49.01	47.24	46.07	53.43	61.53	59.22	64.27	74.25	58.71	61.88	57.44	55.68	58.11
FLUORIDE	35.66	36.43	35.60	38.94	45.77	40.51	41.29	40.85	36.36	38.12	36.31	37.99	38.77
POWDERED													
CARBON	1.48	0.25	0.27	1.74	1.67	4.28	3.97	0.59	2.23	10.89	0.77	1.14	2.55
COPPER													
SULFATE	1.68	0.00	3.02	0.00	1.58	0.00	3.04	0.00	1.29	1.53	1.55	4.07	1.45
POLYMERS-1	16.92	16.58	18.91	20.77	22.89	18.37	20.97	22.34	23.06	19.78	19.82	17.70	19.99
SODIUM													
CHLORIDE	4.19	4.43	4.77	2.51	3.83	4.99	2.97	2.64	4.80	4.61	4.50	5.01	4.08
AMMONIA	8.79	8.11	7.70	5.78	9.58	9.97	10.71	6.13	10.99	8.82	8.42	9.14	8.76
CAUSTIC SODA	10.60	1.01	3.84	21.27	15.15	31.30	54.84	84.48	77.57	73.89	28.31	9.17	37.42
POT.													
PERMANGANATE	1.78	1.01	0.99	1.88	1.17	0.30	1.33	0.47	1.35	2.53	1.32	0.92	1.23
POLYMERS - 2	1.28	1.18	1.25	1.05	1.32	0.99	1.00	0.99	1.25	1.07	1.19	0.95	1.12
FERRIC													
CHLORIDE	39.69	6.89	6.83	25.33	9.33	34.29	32.00	162.36	178.88	209.20	57.50	62.09	73.17
CORROSION													
INHIBITOR	26.53	25.86	24.86	29.19	33.13	27.71	27.25	28.09	29.18	31.65	32.37	37.31	29.28
TOTAL	520.76	389.66	402.59	493.21	484.47	466.20	498.70	696.21	671.27	712.00	479.05	593.30	540.49

## Chemical Forecast Kentucky American Water – Northern Division Based Upon 2005-2007 Average Usage

### Ferric Chloride

	Average lbs	Average lbs/MG	Forecast lbs	Forecast lbs/MG
January	36,577	1551	17,067	1000
February	29,659	1200	13,725	900
March	32,727	1421	16,286	850
April	30,966	1519	15,125	900
May	37,256	1541	17,743	1150
June	28,544	1115	14,933	749
July	26,982	1161	15,485	749
August	24,018	1001	19,610	999
September	23,029	905	19,334	999
October	33,378	1334	19,276	999
November	31,403	1424	18,068	1099
December	30,514	1343	15,774	999
Totals	365,055		202,426	

### Polymer

	Average lbs	Average lbs/MG	Forecast lbs	Forecast lbs/MG
January	140	6	140	8
February	148	6	151	10
March	172	7	159	8
April	107	5	119	7
May	110	5	110	7
June	112	4	119	6
July	102	4	111	5
August	118	5	110	6
September	77	3	97	5
October	158	6	160	8
November	104	5	110	7
December	115	5	121	8
Totals	1,461		1,507	

### Chlorine

	Average lbs	Average lbs/MG	Forecast lbs	Forecast lbs/MG
January	659	28	649	38
February	459	19	503	33
March	555	24	556	29
April	662	32	639	38
May	758	31	756	49
June	850	33	876	44
July	805	35	846	41
August	830	35	902	46
September	876	34	909	47
October	838	34	887	46
November	695	31	756	46
December	623	27	647	41
Totals	8,611		8,926	

**Fluoride**

	<b>Average lbs</b>	<b>Average lbs/MG</b>	<b>Forecast lbs</b>	<b>Forecast lbs/MG</b>
January	664	28	614	36
February	730	30	686	45
March	871	38	805	42
April	598	29	605	36
May	667	28	648	42
June	728	28	707	35
July	651	28	630	30
August	565	24	569	29
September	635	25	638	33
October	798	32	771	40
November	668	30	649	39
December	681	30	639	40
Totals	8,255		7,961	

**Carbon**

	<b>Average lbs</b>	<b>Average lbs/MG</b>	<b>Forecast lbs</b>	<b>Forecast lbs/MG</b>
January	84	4	768	45
February		0	763	50
March	120	5	766	40
April	337	17	756	45
May	1,252	52	926	60
June	1,252	49	936	47
July	1,628	70	867	42
August	1,005	42	784	40
September	1,273	50	831	43
October	849	34	964	50
November	849	38	986	60
December	840	37	946	60
Totals	9,489		10,293	

**Caustic Soda**

	<b>Average lbs</b>	<b>Average lbs/MG</b>	<b>Forecast lbs</b>	<b>Forecast lbs/MG</b>
January	12,595	534	5,973	350
February	10,216	413	5,338	350
March	9,514	413	5,748	300
April	8,988	441	5,462	325
May	7,190	297	5,786	375
June	6,468	253	5,973	300
July	5,699	245	3,613	175
August	6,105	254	4,216	215
September	5,917	232	4,543	235
October	8,135	325	5,783	300
November	7,064	320	5,749	350
December	9,508	419	5,521	350
Totals	97,399		63,705	

	<b>Potassium Permanganate</b>			
	<b>Average lbs</b>	<b>Average lbs/MG</b>	<b>Forecast lbs</b>	<b>Forecast lbs/MG</b>
January	<b>340</b>	<b>14</b>	<b>71</b>	<b>4</b>
February	<b>306</b>	<b>12</b>	<b>64</b>	<b>4</b>
March	<b>216</b>	<b>9</b>	<b>80</b>	<b>4</b>
April	<b>248</b>	<b>12</b>	<b>70</b>	<b>4</b>
May	<b>245</b>	<b>10</b>	<b>64</b>	<b>4</b>
June	<b>323</b>	<b>13</b>	<b>83</b>	<b>4</b>
July	<b>284</b>	<b>12</b>	<b>86</b>	<b>4</b>
August	<b>233</b>	<b>10</b>	<b>82</b>	<b>4</b>
September	<b>176</b>	<b>7</b>	<b>81</b>	<b>4</b>
October	<b>221</b>	<b>9</b>	<b>80</b>	<b>4</b>
November	<b>449</b>	<b>20</b>	<b>69</b>	<b>4</b>
December	<b>510</b>	<b>22</b>	<b>66</b>	<b>4</b>
Totals	<b>3,550</b>		<b>896</b>	

### NORTHERN DIVISION 2008 Usage

		2008 AUG	2008 SEP
SULFURIC ACID	TOTAL LBS	<b>2547</b>	<b>1190</b>
SULFURIC ACID	TOTAL LBS/MG	103	51

## RICHMOND ROAD STATION

AMMONIA	Based Upon 3-Year Historical Averages from 2005 - 2007. Corrected all feed rates to a 7:1 chlorine to ammonia ratio based upon the average ratio from the 3-year historical average. June - September feed rates end up much more consistent as these historical averages appear to be outliers.
CARBON	Based Upon 3-Year Historical Averages from 2005 - 2007.
CHLORINE	Based Upon 3-Year Historical Averages from 2005 - 2007.
COPPER SULFATE	Based Upon 3-Year Historical Averages from 2005 - 2007 and known application schedule now used. Average historical values were lower than what is projected because historical applications were not consistent in terms of month applied.
CORROSION INHIBITOR	Based Upon 3-Year Historical Averages from 2005 - 2007. September value lowered to be more consistent with typical feed rates.
FERRIC CHLORIDE	Not used at this plant.
FLUORIDE	Based Upon 3-Year Historical Averages from 2005 - 2007. Corrected September as it appears to be an outlier. Used a number more consistent with August and October values and a feed rate of approximately 1.1 ppm, which is consistent with what we typically feed.
PACI	Based Upon 3-Year Historical Averages from 2005 - 2007.
POLYMERS NO 1	Based Upon 3-Year Historical Averages from 2005 - 2007. Corrected September as it appears to be an outlier. Used a number more consistent with August and October values and a feed rate of approximately 2.5 ppm, which is consistent with what we typically feed.
POLYMERS NO 2	Based Upon 3-Year Historical Averages from 2005 - 2007.
POT.PERMANGANATE	Based Upon 3-Year Historical Averages from 2005 - 2007.
SODIUM CHLORIDE	Based Upon 3-Year Historical Averages from 2005 - 2007.
SODIUM HYDROXIDE 30%	Not used at this plant.
SODIUM HYDROXIDE 50%	Based Upon 3-Year Historical Averages from 2005 - 2007. January - March historical averages are very small, so they have been left out of the calculation.
SODIUM PERMANGANATE	Not used at this plant.
SULFURIC ACID (38%)	Not used at this plant.

<b>KENTUCKY RIVER STATION</b>	
AMMONIA	Based Upon 3-Year Historical Averages from 2005 - 2007. Used a 6.3:1 chlorine to ammonia feed ratio based upon the historical average.
CARBON	Carbon based upon drought conditions and feed rates for 2007 and 2008. Note that 2007 carbon feed started a little later than necessary and customer odors resulted. Consequently, a small amount of carbon added to the end of August, with the majority in September and October, and a small amount in November.
CHLORINE	Based Upon 3-Year Historical Averages from 2005 - 2007.
COPPER SULFATE	Not used at this plant.
CORROSION INHIBITOR	Based Upon 3-Year Historical Averages from 2005 - 2007. October - November numbers lowered to account for colder water and to be more consistent with yearly feed rates.
FERRIC CHLORIDE	Based Upon 3-Year Historical Averages from 2005 - 2007. No values used for months other than July - November as feed of ferric not anticipated in other months.
FLUORIDE	Based Upon 3-Year Historical Averages from 2005 - 2007.
PACI	Based Upon 3-Year Historical Averages from 2005 - 2007.
POLYMERS NO 1	Based Upon 3-Year Historical Averages from 2005 - 2007.
POLYMERS NO 2	Based Upon 3-Year Historical Averages from 2005 - 2007.
POTASSIUM PERMANGANATE	Estimated based upon historical usage. Sodium permanganate now fed more frequently but the feed pumps are not large enough to meet demands, so a small feed rate is estimated to supplement the sodium permanganate feed rate.
SODIUM CHLORIDE	Based Upon 3-Year Historical Averages from 2005 - 2007.
SODIUM HYDROXIDE 30%	Not used at this plant.
SODIUM HYDROXIDE 50%	Based Upon 3-Year Historical Averages from 2005 - 2007.
SODIUM PERMANGANATE	Estimated values based upon 2,700 lbs fed in August 2008 during drought conditions and potassium permanganate feed rate.
SULFURIC ACID (38%)	Not used at this plant.



<b>NORTHERN DIVISION - OWENTON PLANT</b>	
AMMONIA	Not used at this plant.
CARBON	Based Upon 3-Year Historical Averages from 2005 - 2007. Increased average usage to better control organics through the plant during the entire year.
CHLORINE	Based Upon 3-Year Historical Averages from 2005 - 2007. Values increased slightly to account for anticipated increases in demand as a result of a change in primary source water used.
COPPER SULFATE	Not routinely used at this plant.
CORROSION INHIBITOR	Not used at this plant.
FERRIC CHLORIDE	Based Upon 3-Year Historical Averages from 2005 - 2007 and Professional Judgment based upon 2008 feed rates. New ferric polymer blend being used that is different than what was historically used and requires less feed. We didn't begin feeding the new ferric polymer blend until May 2008.
FLUORIDE	Based Upon 3-Year Historical Averages from 2005 - 2007. Increased average usage slightly due to anticipated reduction in raw water fluoride levels as a result of a change in primary source usage from Thomas Lake to Severn Creek.
PACI	Not used at this plant.
POLYMERS NO 1	Based Upon 3-Year Historical Averages from 2005 - 2007.
POLYMERS NO 2	Not used at this plant.
POTASSIUM PERMANGANATE	Based Upon 3-Year Historical Averages from 2005 - 2007. Lowered feed rate from historical average as usage of Severn Creek anticipated much more than historical usage and Sodium Permanganate is used at Severn Creek.
SODIUM CHLORIDE	Not used at this plant.
SODIUM HYDROXIDE 30%	Caustic soda values are based upon 3-Year Historical Averages from 2005 - 2007 and 2008 usage. The new ferric/polymer blend does not depress the pH as much as ferric chloride, so less caustic is necessary. 30% fed during colder weather to keep from freezing.
SODIUM HYDROXIDE 50%	Caustic soda values are based upon 3-Year Historical Averages from 2005 - 2007 and 2008 usage. The new ferric/polymer blend does not depress the pH as much as ferric chloride, so less caustic is necessary.
SODIUM PERMANGANATE	Estimated a 1 ppm feed rate over the entire year assuming a primary source water change to Severn Creek the majority of the year.
SULFURIC ACID (38%)	Estimated usage based upon amount used in 2008 and professional judgment in anticipation of treatment optimization in 2009. Began regular feed of sulfuric acid in August 2008.

**KENTUCKY-AMERICAN WATER COMPANY**  
**CASE NO. 2008-00427**  
**COMMISSION STAFF'S SECOND REQUEST FOR INFORMATION**

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**Witness: Keith L. Cartier**

21. Refer to Kentucky-American's Response to Commission Staff's First Set of Information Requests, Item 1(a), W/P3-4, at 1-2.
- a. For each Kentucky-American water treatment facility, list the dates in the previous 10 years that the facility was cleaned, the cost of each cleaning, and the amortization period that Kentucky-American used for each cleaning.
  - b. Kentucky-American states that in 2006 the cleaning of the Kentucky River Station cost \$202,500, which would result in a monthly amortization of \$8,438.<sup>1</sup> However, the monthly amortization for June 2009 through May 2010 is \$9,167. Provide the estimated cost to clean the Kentucky River Station, the date the cleaning will occur, and the proposed amortization period. Include all workpapers, assumptions, and calculations used to develop Kentucky-American's response.
  - c. Provide all documents that contain a description of the services that comprise the actual waste disposal cost of \$77,556 for the Kentucky River Station.
  - d. Provide all documents that contain a description of the services that comprise the actual waste disposal cost of Richmond Road Station of \$109,675.

**Response:**

- a. 

Kentucky River Station	
Fall, 1999	cost of cleaning=\$144,000
	Amortization period=Dec. 1999-Nov. 2001
Fall, 2001	cost of cleaning=\$167,032
	Amortization period=Nov. 2001-Oct. 2003
Spring, 2004	cost of cleaning=\$187,528
	Amortization period=Oct. 2004-Sept. 2006
Fall, 2006	cost of cleaning=\$202,500
	Amortization period=Dec. 2006-Nov. 2008
- b. The estimated cost for lagoon cleaning at the Kentucky River Station for 2009 is \$220,000. The increase in cleaning costs from 2004 to 2006 was 8%. The increase in cleaning costs from 2006 to 2009 was estimated to be 8.6%. The lagoon cleaning is scheduled to take place in the spring of 2009 and costs will be amortized for 24 months.

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<sup>1</sup>  $\$202,500 \div 24 \text{ Months (Amort. Period 01/2007 - 12/2008)} = \$8,438.$

- c. There are three components of the actual waste disposal costs at the Kentucky River Station: Electric costs, Chemical costs and costs for required laboratory analytical testing of the produced sludge. Attached documents show the charges for the first eleven months of 2008. The projected amount is for one full year with price increases for the fuel and power and for the chemicals.
- d. There are four components of the actual waste disposal costs at the Richmond Road Station: The removal of sediments at the outfall of Lake Ellerslie is accrued at a cost of \$4,167 per month. These costs are not amortized.

The remainder of the costs are for:

- 1) Analytical testing- specific laboratory analysis must be performed semiannually.
- 2) Electric-monthly charges for operation of the pumping equipment, the sludge press and other associated equipment.
- 3) Chemicals-monthly charges for coagulant chemicals which are used in the sludge de-watering process and dechlorination chemicals for permitted discharges.

The attached document shows the amount for eleven months of 2008, to give an example of how these costs are applied monthly.

For the electronic version, refer to KAW\_R\_PSCDR2#21\_010809.pdf.

Kentucky River Station  
PSCDR2#21c

Sum of GLAA					Year			
GL	GLMCU	GLOBJ	GLEXA	g/pn	2008			
EE	120250	511100	KENTUCKY UTILITIES COMPANY	1	2,153			
				2	2,593			
				3	1,917			
				4	2,110			
				5	1,849			
				6	2,171			
				7	3,142			
				8	3,490			
				9	3,890			
				10	3,810			
				11	3,461			
				511100 Total				
120250 Total					30,585			
ID	120250	511100	CHEM ISSUES KRS APRIL 2008	4	1,006			
			CHEM ISSUES KRS AUG 2008	8	2,436			
			CHEM ISSUES KRS FEB 2008	2	3,592			
			CHEM ISSUES KRS JULY 2008	7	3,361			
			CHEM ISSUES KRS JUNE 2008	6	2,871			
			CHEM ISSUES KRS MAY 2008	5	2,584			
			CHEM ISSUES KRS OCTOBER 2008	10	2,478			
			CHEM ISSUES KRS SEPT 2008	9	2,362			
			CHEMICAL ISSUES KRS JAN 2008	1	3,147			
			CHEMICAL ISSUES KRS MARCH 2008	3	3,991			
			Chemical Issues KRS Nov,2008	11	2,634			
			511100 Total					30,462
120250 Total					30,462			
IJ	120250	511100	FA DELETE AGED REC/UNVCH 6/08	9	(6,500)			
			511100 Total					(6,500)
			120250 Total					(6,500)
JE	120250	511100	KY PTP5 Accrual 07.08	7	1,402			
				8	(1,402)			
			511100 Total					-
120250 Total					-			
PI	120250	511100	Physical Inventory	9	151			
			511100 Total					151
			120250 Total					151
PV	120250	511100	Bonded Chemicals Inc - PO	9	(77)			
			Bonded Chemicals Inc-REMIT	4	(77)			
			Geochemical Testing	4	1,499			
				8	1,405			
			511100 Total					2,750
120250 Total					2,750			
Grand Total					57,448			

Richmond Road Station

PSCDR2#21d

Sum of GLAA						Year
GLDCT	GLMCU	GLOBJ	GLEXA	gln		2008
EE	120251	511100	KENTUCKY UTILITIES COMPANY	1		2,113
				2		3,223
				3		2,452
				4		1,845
				5		1,717
				6		1,483
				7		1,425
				8		1,444
				9		1,487
				10		1,600
				11		1,282
						511100 Total
		120251 Total				20,071
ID	120251	511100	CHEM ISSUES RRS AUG 2008	8		1,715
			CHEM ISSUES RRS FEB 2008	2		440
			CHEM ISSUES RRS JULY 2008	7		1,585
			CHEM ISSUES RRS JUNE 2008	6		1,594
			CHEM ISSUES RRS MAY 2008	5		1,046
			CHEM ISSUES RRS NOV 2008	11		1,669
			CHEM ISSUES RRS OCTOBER 2008	10		1,190
			CHEM ISSUES RRS SEPT 2008	9		1,403
			CHEMICAL ISSUES RRS APRIL 2008	4		1,547
			CHEMICAL ISSUES RRS JAN 2008	1		614
			CHEMICAL ISSUES RRS MARCH 2008	3		792
					511100 Total	
		120251 Total				13,595
JE	120251	511100	2nd sludge accrual adj	9		(10,887)
				10		10,887
			Adj Waste Disposal Accrual	1		(5,208)
			Annual Sludge Removal Accrual	1		9,375
			KY PTP5 Accrual 07.08	7		1,405
				8		(1,405)
			periodic sludge accrual	9		48,390
				10		(6,720)
				11		4,167
			rv standing sludge accruals	9		(33,336)
			Sludge Accrual Annual	6		4,167
			Sludge Removal Accrual-Annual	2		4,167
			Waste Disposal Accrual	4		4,167
				8		4,167
			Waste Disposal Accrual-Annual	3		4,167
	5		4,167			
	7		4,167			
		511100 Total				45,837
		120251 Total				45,837
PI	120251	511100	Physical Inventory	9		339
			511100 Total			339

	120251 Total			339	
PV	120251	511100	Bonded Chemicals Inc - PO	8	2
			Geochemical Testing	4	1,499
				8	1,405
		511100 Total			2,905
	120251 Total			2,905	
ST	120251	511100	Sabrix Reversal Chem Univar	7	(219)
			511100 Total		(219)
		120251 Total			(219)
Grand Total				82,529	