



**Landfill Superintendent..... Scott O'Laughlin**

## Service Statement

Landfill staff is responsible for safe, efficient and regulatory-compliant disposal of all non-hazardous solid waste in Midland County. Midland is a closed county, meaning Midland waste does not leave and waste from other counties or states does not enter the county for disposal. The site is open Monday through Friday, 8:00 a.m. – 4:00 p.m. all year, and on Saturdays from 8:30 a.m. – noon during the months of March through November. We process and average over 100 vehicles per day, which amounts to roughly 600 tons per day of waste that's buried.

The site recently began filling Cell 16, a cell construction project, which added 11 acres of waste disposal. Including future cell construction, the site has an estimated life of over 40 years remaining. We are also investigating the addition of a Type III (inert waste) waste disposal cell on the property to further extend the site life. Finally, new technologies of bioreactor, or liquid introduction to waste, cells and landfill gas collection for conversion to energy are being implemented into the operation over the next few years to reduce gas migration off the property and provide a source of revenue through energy sale (or offset of current energy use). These projects are subject to review and approval by our regulatory agency, the Michigan Department of Environmental Quality, in accordance with Part 115 of PA 451, as amended.

The City also runs a large scale yard waste composting operation on the property. Over 40,000 cubic yards of leaves and grass are ground, mixed, rotated several times and eventually screened to generate high-quality compost. The material is currently used completely on site.

We support recycling and education at the site. We have a scrap metal drop-off area where metals are collected for disposal at a recycling yard, which also provides some revenue. Concrete and asphalt are recycled when brought to the site, and their use results in good road conditions in the waste disposal area.

We have consultants perform groundwater, surface water and air monitoring at the site to ensure we are not releasing pollutants from the site. Landfill staff strives to maintain a park-like appearance through groundskeeping, litter control and dust minimization.

The Landfill provides a drop off location for five to six household hazardous waste collections held annually. The materials are taken off site for proper disposal by a hazardous waste disposal firm. The program is provided to citizens at no expense. Electronic waste collections for recycling have also been added to minimize the amount of those materials being disposed of at the site.

Citizens have access to convenient dumpsters on a paved, elevated pad for disposal of small volumes of waste. Each household in the city of Midland and Midland County is allowed a single visit each month of up to three cubic yards of waste at no charge (excludes tires; maximum one appliance). Additional volume or visits within the calendar month are charged at the rates posted at the site and in the City's Code of Ordinances. Disposal fees were reduced in 2003 for all waste types, and had not increased during the ten prior years.

## Functions

### Waste Disposal for Midland County

- Residential waste drop-off area for convenient disposal for citizens, including 3 yards per residence per month for free
- Commercial/industrial non-hazardous solid waste
- Asbestos
- Contaminated soil

### Recycling

- Yard waste: 40,000+ yards of leaves & grass processed into compost annually
- Grinds up brush for internal use
- Separates scrap metal where possible and sells for scrap value
- Keeps concrete & asphalt waste separate for crushing & reuse as road or road base material on site
- Uses waste foundry sand for daily waste cover, avoiding use of virgin sand for cover
- Supports Midland Area Recycling Center, located on site
- Provides tours to schools from pre-kindergarten through college

### Site Maintenance

- Maintains park-like appearance
- Dust minimization
- Controls litter
- Erosion prevention
- Gas odor control
- Pump system maintenance

### Regulatory Compliance/Environmental Stewardship

- Customer service: processes an average of over 100 vehicles daily
- Inspects loads to insure against prohibited waste disposal
- Keeps records for reporting to Michigan Department of Environmental Quality
- Monitors groundwater to verify no contamination of water table beneath site
- Developing a landfill gas collection system to reduce odor concerns and generate energy (future)
- Designing bioreactor landfill cell to extend site life and reduce future liability

## Department at a Glance

Funding Level Summary	2006-07 Actual	2007-08 Actual	Adjusted 2008-09 Budget	Estimated 2008-09 Budget	Adopted 2009-10 Budget	% of Change
Sanitary Landfill	\$ 4,456,813	\$ 4,178,779	\$ 5,700,666	\$ 5,675,465	\$ 6,208,080	9.4%
<b>Total Department</b>	<b>\$ 4,456,813</b>	<b>\$ 4,178,779</b>	<b>\$ 5,700,666</b>	<b>\$ 5,675,465</b>	<b>\$ 6,208,080</b>	<b>9.4%</b>
Personal Services	\$ 880,892	\$ 885,246	\$ 1,014,798	\$ 930,613	\$ 1,012,378	8.8%
Supplies	180,725	211,655	178,989	205,302	201,449	-1.9%
Other Services/Charges	1,088,684	1,236,854	1,445,357	1,477,700	1,595,253	8.0%
Perpetual Care	-	-	125,000	125,000	125,000	0.0%
Miscellaneous	203,157	162,032	15,000	18,000	50,000	177.8%
Capital Outlay	2,091,655	1,682,992	2,921,522	2,918,850	2,850,000	-2.4%
Interfund Loans Issued	-	-	-	-	374,000	100.0%
Operating Transfers Out	11,700	-	-	-	-	0.0%
<b>Total Department</b>	<b>\$ 4,456,813</b>	<b>\$ 4,178,779</b>	<b>\$ 5,700,666</b>	<b>\$ 5,675,465</b>	<b>\$ 6,208,080</b>	<b>9.4%</b>

### Personnel Summary

Full-Time	8	9	9	9	9
Regular Part-Time	-	-	-	-	-
<b>Total Department</b>	<b>8</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>

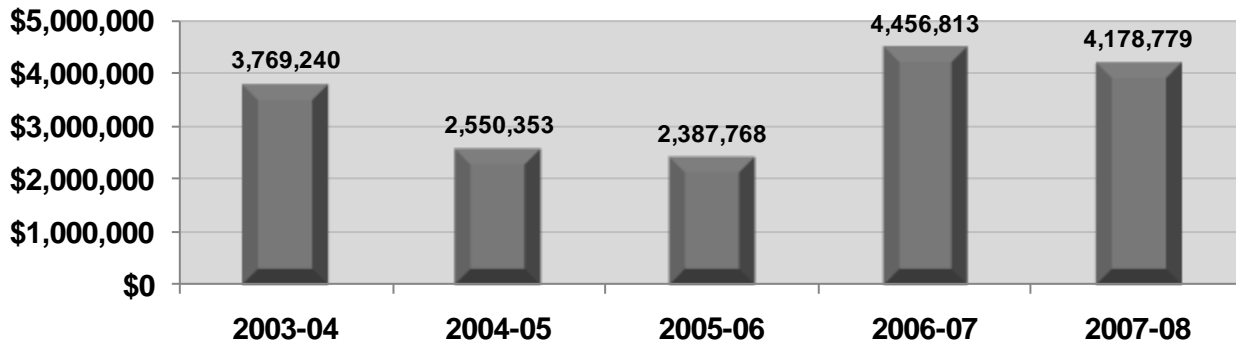
**Summary of Budget Changes**

**Significant Notes – 2009-10 Budget Compared to 2008-09 Budget**

Fiscal year 2009-10 will continue with several projects already underway. Cell 16 continues to be the primary waste disposal cell, and will for years to come. Hydrogeologic work for the planned Type III – Construction and Demolition Debris cell continues after a regulatory delay in 2008-09. Cell construction should commence during the 2009-10 fiscal year. Construction of an active gas collection and destruction system is expected to be completed by July 2009. This system will reduce odors leaving the site, minimize environmental impact of the site and lead to a 2009-10 fiscal year gas-to-energy facility that will generate revenue for the life of the Landfill site. Area A, an older disposal area, has an increased need for repairs of the final cover soils next year.

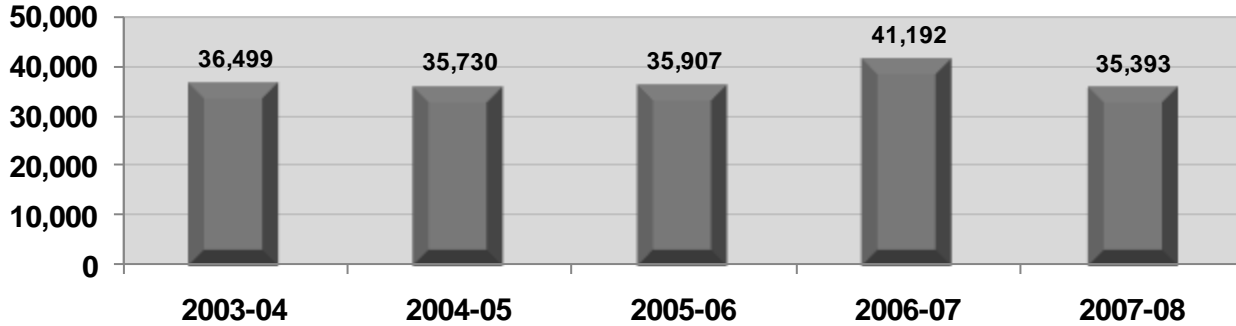
In spring 2009, a portion of raw compost and ground wood waste on the property was sold, prior to most processing, for use in biological treatment of contaminated soils in Porter Township. In fiscal year 2008-09, the Landfill continued its policy of purchasing properties adjacent to the Landfill to increase the buffer between the landfill operations and residences through the purchase of another vacant home.

**5-Year Operating Budget History**

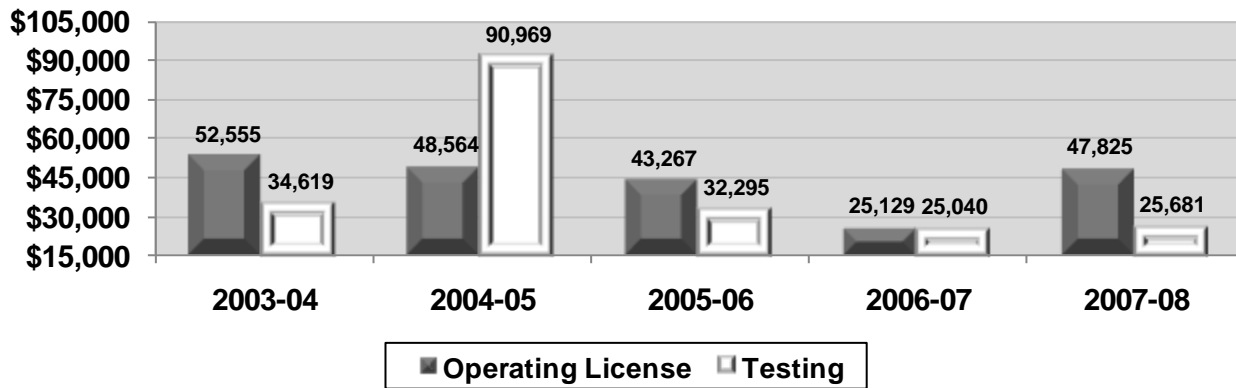


**Key Departmental Trends**

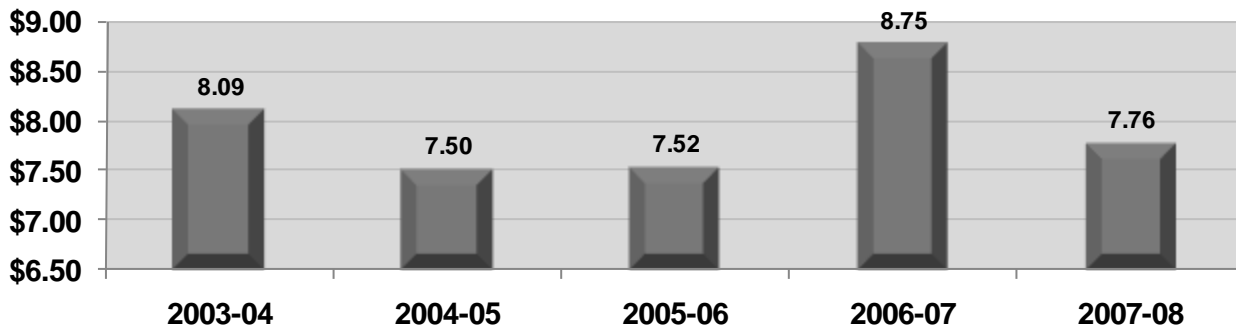
**Vehicle Count**



**Licensing and Testing Costs**

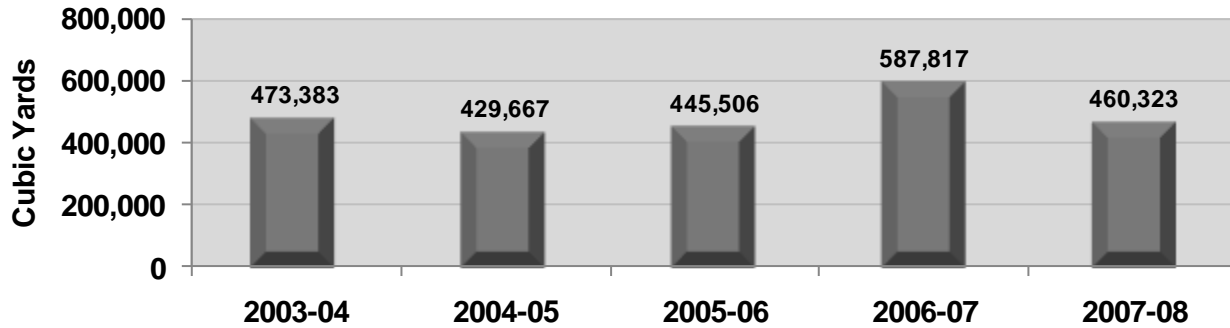


**Average Charge Per Yard**

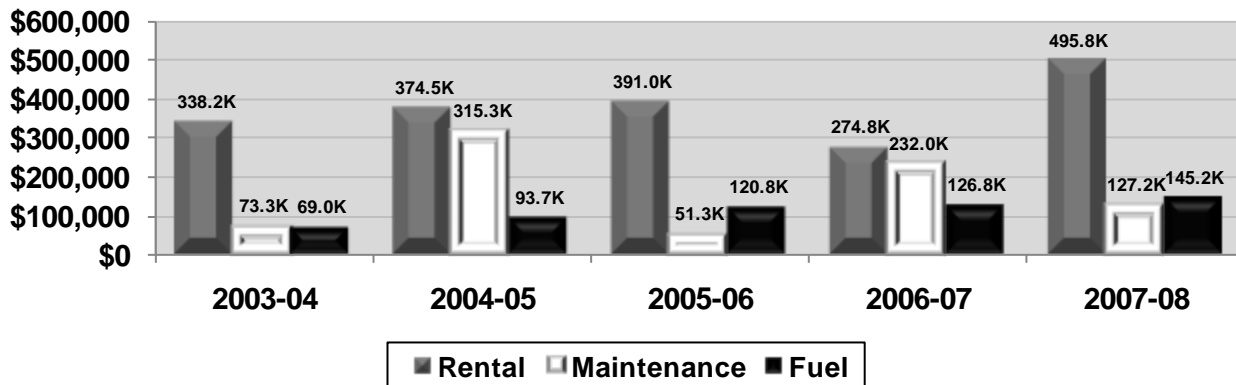


**Key Departmental Trends (cont.)**

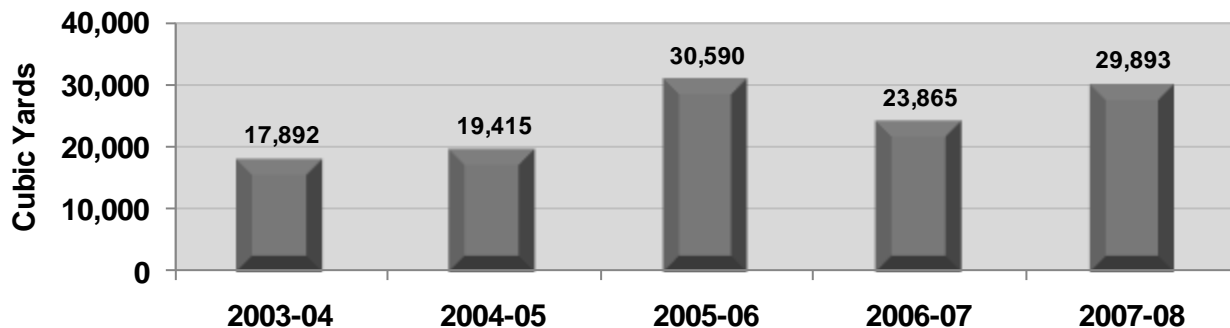
**Total Waste Received at Gate**



**Equipment Operating Costs**



**Yard Waste Received**



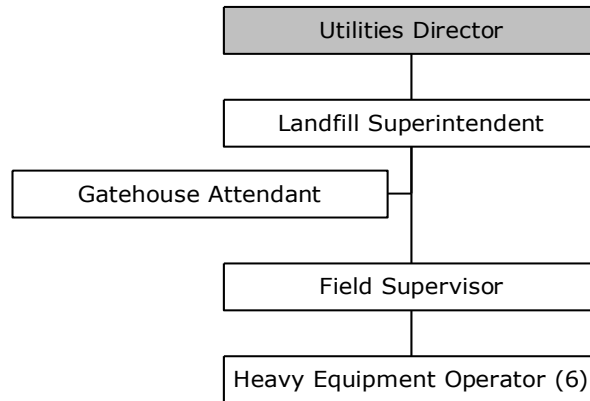
**Performance Objectives**

<b>Performance Indicators (OUTPUT)</b>	<b>2006-07 Actual</b>	<b>2007-08 Actual</b>	<b>% Change</b>
Vehicle Count	41,192	35,393	-14.1%
Air Space Capacity (Cubic Yards)	905,764	2,556,451	182.2%
Air Space Consumed (Cubic Yards)	224,143	149,710	-33.2%
Remaining Life of Open Cells (Years)	4.0	17.1	327.5%
Yard Waste Received (Cubic Yards)	23,865	29,893	25.3%
Total Waste Received at Gate (Cubic Yards)	587,817	460,323	-21.7%
Waste Received at Gate (Cubic Yards):			
Contractor	147,373	145,477	-1.3%
Demolition	162,976	159,353	-2.2%
City Residence	43,765	40,812	-6.7%
Heavy	35,646	38,484	8.0%
Yard Waste	23,865	29,893	25.3%
Public	11,528	10,490	-9.0%
Contaminated Soils	151,500	23,222	-84.7%
Other	11,165	12,592	12.8%

<b>Performance Indicators (EFFICIENCY)</b>	<b>2006-07 Actual</b>	<b>2007-08 Actual</b>	<b>% Change</b>
Average Waste Revenue per Cubic Yard	\$8.75	\$7.76	-11.3%
Cubic yard of Waste Handled per Employee	73,477	57,540	-21.7%
Average Cubic Yard per Vehicle	14.3	13.0	-9.0%
Average Air Space Consumed per Vehicle	5.4	4.2	-21.7%

**Organizational Chart**



Shaded boxes indicate a reporting structure to a department head that is funded outside of this budget.

<b>Staff Summary</b>	<b>Approved 2007-08</b>	<b>Approved 2008-09</b>	<b>Adopted 2009-10</b>
<u>Full-Time</u>			
Landfill Superintendent	1	1	1
Field Supervisor	1	1	1
Gatehouse Attendant	1	1	1
Heavy Equipment Operator	6	6	6
<b>Total Full-Time</b>	<b>9</b>	<b>9</b>	<b>9</b>
<u>Regular Part-Time</u>			
None	0	0	0
<b>Total Regular Part-Time</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Department Total</b>	<b>9</b>	<b>9</b>	<b>9</b>

FUND 517 - LANDFILL FUND  
 DETAIL OF BUDGET APPROPRIATIONS AND REVENUES  
 Fiscal Year Ending June 30, 2010

	2007-08	2008-09		2009-10
	Actual	Budget	Estimate	Adopted
<b>Operating Revenues</b>				
Township	\$ 414,660	\$ 430,000	\$ 402,763	\$ 402,750
Public	1,125,833	1,100,000	1,522,951	1,218,360
City - residential	415,873	410,000	406,962	411,030
Demolition	1,468,453	1,150,000	1,446,863	1,302,170
Penalties	2,358	1,500	6,000	1,790
<b>Total operating revenues</b>	<b>3,427,177</b>	<b>3,091,500</b>	<b>3,785,539</b>	<b>3,336,100</b>
<b>Operating Expenses</b>				
Personal services	754,086	994,962	913,343	1,012,378
Supplies	211,655	178,989	205,302	201,449
Other charges	1,236,854	1,445,357	1,477,700	1,595,253
Perpetual care	-	125,000	125,000	125,000
Reserve for contingencies	-	15,000	18,000	50,000
<b>Total operating expenses</b>	<b>2,202,595</b>	<b>2,759,308</b>	<b>2,739,345</b>	<b>2,984,080</b>
<b>Net Operating Income</b>	<b>1,224,582</b>	<b>332,192</b>	<b>1,046,194</b>	<b>352,020</b>
<b>Non-operating Revenues (Expenses)</b>				
Investment earnings	228,499	235,000	272,002	270,000
Interfund loan interest	45,835	26,192	26,192	19,644
Miscellaneous revenues	67,077	28,500	23,249	21,250
Miscellaneous expenses	(293,192)	(19,836)	(17,270)	-
<b>Total non-operating revenues (expenses)</b>	<b>48,219</b>	<b>269,856</b>	<b>304,173</b>	<b>310,894</b>
<b>Other Financing Sources (Uses)</b>				
Investment in assets	(1,682,992)	(2,921,522)	(2,918,850)	(2,850,000)
Interfund loans issued	-	-	-	(374,000)
Interfund loan proceeds	261,914	261,914	261,914	261,914
<b>Total other financing sources (uses)</b>	<b>(1,421,078)</b>	<b>(2,659,608)</b>	<b>(2,656,936)</b>	<b>(2,962,086)</b>
<b>Excess of Revenues and Other Sources Over (Under) Expenditures and Other Uses</b>	<b>(148,277)</b>	<b>(2,057,560)</b>	<b>(1,306,569)</b>	<b>(2,299,172)</b>
<b>Working Capital - beginning of year</b>	<b>5,936,707</b>	<b>5,788,430</b>	<b>5,788,430</b>	<b>4,481,861</b>
<b>Working Capital - end of year</b>	<b>\$ 5,788,430</b>	<b>\$ 3,730,870</b>	<b>\$ 4,481,861</b>	<b>\$ 2,182,689</b>

## LANDFILL FUND FIVE-YEAR FINANCIAL PLAN

	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
<b>Operating Revenues</b>	<u>\$ 3,785,539</u>	<u>\$ 3,336,100</u>	<u>\$ 3,367,010</u>	<u>\$ 3,398,270</u>	<u>\$ 3,429,890</u>	<u>\$ 3,461,870</u>
<b>Operating Expenses</b>						
Personal services	913,343	1,012,378	1,057,935	1,105,542	1,155,291	1,207,279
Supplies	205,302	201,449	206,485	211,647	216,938	222,361
Other charges	1,477,700	1,595,253	1,635,134	1,676,012	1,717,912	1,760,860
Perpetual care	125,000	125,000	128,125	131,328	134,611	137,976
Reserve for contingencies	18,000	50,000	25,000	25,000	25,000	25,000
Total operating expenses	<u>2,739,345</u>	<u>2,984,080</u>	<u>3,052,679</u>	<u>3,149,529</u>	<u>3,249,752</u>	<u>3,353,476</u>
Net Operating Income	<u>1,046,194</u>	<u>352,020</u>	<u>314,331</u>	<u>248,741</u>	<u>180,138</u>	<u>108,394</u>
<b>Non-operating Revenues (Expenses)</b>						
Investment earnings	272,002	270,000	32,740	21,165	28,097	30,489
Interfund loan interest	26,192	19,644	13,096	6,548	-	-
Miscellaneous revenues	23,249	21,250	21,250	21,250	21,250	21,250
Miscellaneous expenses	(17,270)	-	-	-	-	-
Total non-operating revenues (expenses)	<u>304,173</u>	<u>310,894</u>	<u>67,086</u>	<u>48,963</u>	<u>49,347</u>	<u>51,739</u>
<b>Other Financing Sources (Uses)</b>						
Investment in Assets	(1,134,297)	(200,000)	(515,000)	(147,500)	(120,000)	(331,000)
Interfund loans issued	-	(374,000)	-	-	-	-
Interfund loan proceeds	261,914	261,914	361,914	361,914	100,000	100,000
Cell Development & Closure	(1,784,553)	(2,650,000)	(1,000,000)	(50,000)	(50,000)	(200,000)
Total other financing sources (uses)	<u>(2,656,936)</u>	<u>(2,962,086)</u>	<u>(1,153,086)</u>	<u>164,414</u>	<u>(70,000)</u>	<u>(431,000)</u>
Excess of Revenues and Other Sources Over (Under) Expenditures and Other Uses	(1,306,569)	(2,299,172)	(771,669)	462,118	159,485	(270,867)
<b>Working Capital - beginning of year</b>	<u>5,788,430</u>	<u>4,481,861</u>	<u>2,182,689</u>	<u>1,411,020</u>	<u>1,873,138</u>	<u>2,032,623</u>
<b>Working Capital - end of year</b>	<u>\$ 4,481,861</u>	<u>\$ 2,182,689</u>	<u>\$ 1,411,020</u>	<u>\$ 1,873,138</u>	<u>\$ 2,032,623</u>	<u>\$ 1,761,756</u>
Working capital (Goal = \$1 million)	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000
Working capital for cell development & closure	3,481,861	1,182,689	411,020	873,138	1,032,623	761,756
	<u>\$ 4,481,861</u>	<u>\$ 2,182,689</u>	<u>\$ 1,411,020</u>	<u>\$ 1,873,138</u>	<u>\$ 2,032,623</u>	<u>\$ 1,761,756</u>

### ASSUMPTIONS:

Rate adjustments	None
Growth rate	1.0%
Personal services increase per year	4.50%
Operating expense increase per year	2.50%
Investment earnings on working capital	1.50%
Investment in assets: five-year capital plan	