

## **APPENDIX C**

## **REGION 1 SCREENING CALCULATIONS**

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**Date of implementation:** January 1, 2002

**Name of Site:** Baird & McGuire Superfund Site  
**Site City:** Holbrook  
**Site State:** MA  
**Site Region:** 1

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$3,500,000
Expected duration	yrs	21.3 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$45,191,087</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	7	0.0%	5 to 9 wells
Pumping rate	gpm	150	0.0%	100 to 500 gpm
Down time per year	wks	2	2.5%	2.00 - 3.99 wks
# of above-ground water treatment processes	#	4	5.0%	4 or more processes
GW monitoring (number wells * events-per-yr)	#	80	5.0%	75 or more
Expected system duration	yrs	21.3	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	E	-2.5%	moderate difficulty for minor changes, severe for major changes
		<i>Summation (%) -&gt;</i>	27.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>27.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$45,191,087</b>
<b>Estimated potential savings (%):</b>	<b>- 27.5%</b>
<b>Subtotal</b>	<b>\$12,427,549</b>
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>
	<b>\$12,402,549 &lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

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**Date of implementation:** January 1, 2002

**Name of Site:** Charles George Landfill Superfund Site  
**Site City:** Tyngsboro  
**Site State:** MA  
**Site Region:** 1

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$450,000
Expected duration	yrs	26.7 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	\$	<b>\$6,552,022</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	9	0.0%	5 to 9 wells
Pumping rate	gpm	30	-2.5%	10 to 99.99 gpm
Down time per year	wks	2	2.5%	2.00 - 3.99 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	40	0.0%	25.00 to 49.99
Expected system duration	yrs	26.7	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	E	-2.5%	moderate difficulty for minor changes, severe for major changes
		<i>Summation (%) -&gt;</i>	17.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>17.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$6,552,022</b>	
<b>Estimated potential savings (%):</b>	<b>- 17.5%</b>	
<b>Subtotal</b>	<b>\$1,146,604</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$1,121,604</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

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**Date of implementation:** January 1, 2002

**Name of Site:** Eastern Surplus Company Superfund Site  
**Site City:** Meddybemps  
**Site State:** ME  
**Site Region:** 1

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$200,000
Expected duration	yrs	5.7 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$966,468</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	12	2.5%	10 or more wells
Pumping rate	gpm	20	-2.5%	10 to 99.99 gpm
Down time per year	wks	2	2.5%	2.00 - 3.99 wks
# of above-ground water treatment processes	#	3	2.5%	3 processes
GW monitoring (number wells * events-per-yr)	#	60	2.5%	50.00 to 74.99
Expected system duration	yrs	5.7	-5.0%	5.00 - 9.99 yrs
Political/Social factors (minor changes)	A-F	B	3.0%	little difficulty for minor changes, moderate for major changes
		<i>Summation (%) -&gt;</i>	28.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>28.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$966,468</b>	
<b>Estimated potential savings (%):</b>	<b>- 28.0%</b>	
<b>Subtotal</b>	<b>\$270,611</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$245,611</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

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**Date of implementation:** January 1, 2002

**Name of Site:** Groveland Wells Superfund Site  
**Site City:** Groveland  
**Site State:** MA  
**Site Region:** 1

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$500,000
Expected duration	yrs	29.3 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$7,601,834</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	10	2.5%	10 or more wells
Pumping rate	gpm	140	0.0%	100 to 500 gpm
Down time per year	wks	1	0.0%	<2 wks
# of above-ground water treatment processes	#	4	5.0%	4 or more processes
GW monitoring (number wells * events-per-yr)	#	21	-2.5%	<25
Expected system duration	yrs	29.3	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	27.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>27.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$7,601,834</b>	
<b>Estimated potential savings (%):</b>	<b>- 27.5%</b>	
<b>Subtotal</b>	<b>\$2,090,504</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$2,065,504</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

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**Date of implementation:** January 1, 2002

**Name of Site:** Kearsarge Metallurgical Corp.  
**Site City:** Conway  
**Site State:** NH  
**Site Region:** 1

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$250,000
Expected duration	yrs	3.7 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$819,414</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	14	2.5%	10 or more wells
Pumping rate	gpm	42	-2.5%	10 to 99.99 gpm
Down time per year	wks	4	5.0%	4 wks or more
# of above-ground water treatment processes	#	2	0.0%	2 processes
GW monitoring (number wells * events-per-yr)	#	60	2.5%	50.00 to 74.99
Expected system duration	yrs	3.7	-15.0%	2.00 - 4.99yrs
Political/Social factors (minor changes)	A-F	D	0.0%	moderate difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	10.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>10.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$819,414</b>	
<b>Estimated potential savings (%):</b>	<b>- 10.0%</b>	
<b>Subtotal</b>	<b>\$81,941</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$56,941</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

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**Date of implementation:** January 1, 2002

**Name of Site:** Keefe Environmental Systems  
**Site City:** Epping  
**Site State:** NH  
**Site Region:** 1

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$200,000
Expected duration	yrs	1.7 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$312,230</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	4	-2.5%	3 to 4 wells
Pumping rate	gpm	20	-2.5%	10 to 99.99 gpm
Down time per year	wks	2	2.5%	2.00 - 3.99 wks
# of above-ground water treatment processes	#	3	2.5%	3 processes
GW monitoring (number wells * events-per-yr)	#	82	5.0%	75 or more
Expected system duration	yrs	1.7	-20.0%	<2 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	7.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>7.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$312,230</b>	
<b>Estimated potential savings (%):</b>	<b>- 7.5%</b>	
<b>Subtotal</b>	<b>\$23,417</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>-\$1,583</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**



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**Date of implementation:** January 1, 2002

**Name of Site:** Savage Well Municipal Water System  
**Site City:** Milford  
**Site State:** NH  
**Site Region:** 1

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$500,000
Expected duration	yrs	7.2 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$2,950,900</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	4	-2.5%	3 to 4 wells
Pumping rate	gpm	100	0.0%	100 to 500 gpm
Down time per year	wks	4	5.0%	4 wks or more
# of above-ground water treatment processes	#	3	2.5%	3 processes
GW monitoring (number wells * events-per-yr)	#	114	5.0%	75 or more
Expected system duration	yrs	7.2	-5.0%	5.00 - 9.99 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	32.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>32.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$2,950,900</b>	
<b>Estimated potential savings (%):</b>	<b>- 32.5%</b>	
<b>Subtotal</b>	<b>\$959,042</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$934,042</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

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**Date of implementation:** January 1, 2002

**Name of Site:** Silresim Chemical Corp.  
**Site City:** Lowell  
**Site State:** MA  
**Site Region:** 1

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$1,400,000
Expected duration	yrs	15.9 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$15,126,499</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	B	5.0%	Performance evaluated and found insufficient
Number of pumping wells	#	31	2.5%	10 or more wells
Pumping rate	gpm	25	-2.5%	10 to 99.99 gpm
Down time per year	wks	2	2.5%	2.00 - 3.99 wks
# of above-ground water treatment processes	#	4	5.0%	4 or more processes
GW monitoring (number wells * events-per-yr)	#	94	5.0%	75 or more
Expected system duration	yrs	15.9	-2.5%	10.00 - 19.99 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	40.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>40.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$15,126,499</b>	
<b>Estimated potential savings (%):</b>	<b>- 40.0%</b>	
<b>Subtotal</b>	<b>\$6,050,600</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$6,025,600</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

## **REGION 2 SCREENING CALCULATIONS**

1  
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**Date of implementation:** January 1, 2002

**Name of Site:** American Thermostat  
**Site City:** South Cairo  
**Site State:** NY  
**Site Region:** 2

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$1,175,000
Expected duration	yrs	26.7 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	\$	<b>\$17,108,057</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	14	2.5%	10 or more wells
Pumping rate	gpm	70	-2.5%	10 to 99.99 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	4	5.0%	4 or more processes
GW monitoring (number wells * events-per-yr)	#	228	5.0%	75 or more
Expected system duration	yrs	26.7	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	C	2.0%	little difficulty for minor changes, severe for major changes
		<i>Summation (%) -&gt;</i>	29.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>29.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	\$17,108,057	
<b>Estimated potential savings (%):</b>	- 29.5%	
<b>Subtotal</b>	<u>\$5,046,877</u>	
<b>Estimated RSE cost (Tier 3):</b>	- \$25,000	
	<u>\$5,021,877</u>	<----- <b>Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

2  
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**Date of implementation:** January 1, 2002

**Name of Site:** Bog Creek Farm LTRA  
**Site City:** Howell  
**Site State:** NJ  
**Site Region:** 2

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$460,000
Expected duration	yrs	22.9 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$6,194,718</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	33	2.5%	10 or more wells
Pumping rate	gpm	30	-2.5%	10 to 99.99 gpm
Down time per year	wks	4	5.0%	4 wks or more
# of above-ground water treatment processes	#	4	5.0%	4 or more processes
GW monitoring (number wells * events-per-yr)	#	9	-2.5%	<25
Expected system duration	yrs	22.9	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	30.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>30.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$6,194,718</b>	0
<b>Estimated potential savings (%):</b>	<b>- 30.0%</b>	
<b>Subtotal</b>	<b>\$1,858,415</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$1,833,415</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

3  
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**Date of implementation:** January 1, 2002

**Name of Site:** Brewster Wellfield  
**Site City:** Brewster  
**Site State:** NY  
**Site Region:** 2

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$400,000
Expected duration	yrs	5.8 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$1,957,217</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	4	-2.5%	3 to 4 wells
Pumping rate	gpm	50	-2.5%	10 to 99.99 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	64	2.5%	50.00 to 74.99
Expected system duration	yrs	5.8	-5.0%	5.00 - 9.99 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	17.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>17.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$1,957,217</b>	0
<b>Estimated potential savings (%):</b>	<b>- 17.5%</b>	
<b>Subtotal</b>	<b>\$342,513</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$317,513</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

4  
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**Date of implementation:** January 1, 2002

**Name of Site:** Circuitron  
**Site City:** East Farmingdale  
**Site State:** NY  
**Site Region:** 2

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$480,000
Expected duration	yrs	1.4 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$639,836</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	3	-2.5%	3 to 4 wells
Pumping rate	gpm	80	-2.5%	10 to 99.99 gpm
Down time per year	wks	6	5.0%	4 wks or more
# of above-ground water treatment processes	#	3	2.5%	3 processes
GW monitoring (number wells * events-per-yr)	#	76	5.0%	75 or more
Expected system duration	yrs	1.4	-20.0%	<2 yrs
Political/Social factors (minor changes)	A-F	B	3.0%	little difficulty for minor changes, moderate for major changes
		<i>Summation (%) -&gt;</i>	8.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>8.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$639,836</b>	0
<b>Estimated potential savings (%):</b>	<b>- 8.0%</b>	
<b>Subtotal</b>	<b>\$51,187</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$26,187</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

5

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Date of implementation: January 1, 2002

Name of Site: Claremont Polychemical  
 Site City: Town of Oyster Bay  
 Site State: NY  
 Site Region: 2

Cost Item	Units	Value	
Annual O&M cost	\$/yr	\$740,000	
Expected duration	yrs	18.1	<-max of 30 yrs
Discount rate	%	5.00%	
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$8,678,999</b>	

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	3	-2.5%	3 to 4 wells
Pumping rate	gpm	420	0.0%	100 to 500 gpm
Down time per year	wks	2	2.5%	2.00 - 3.99 wks
# of above-ground water treatment processes	#	3	2.5%	3 processes
GW monitoring (number wells * events-per-yr)	#	56	2.5%	50.00 to 74.99
Expected system duration	yrs	18.1	-2.5%	10.00 - 19.99 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		Summation (%) ->	30.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>30.0%</b>	(must be between 5% and 40%)

### Summary

<b>Baseline present value:</b>	<b>\$8,678,999</b>	0
<b>Estimated potential savings (%):</b>	<b>- 30.0%</b>	
<b>Subtotal</b>	<b>\$2,603,700</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$2,578,700</b>	<----- Estimated potential savings (\$)

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**



6

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**Date of implementation:** January 1, 2002

**Name of Site:** Combe Fill South Landfill  
**Site City:** Chester Township  
**Site State:** NJ  
**Site Region:** 2

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$920,000
Expected duration	yrs	26.7 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$13,395,245</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	B	5.0%	Performance evaluated and found insufficient
Number of pumping wells	#	19	2.5%	10 or more wells
Pumping rate	gpm	121	0.0%	100 to 500 gpm
Down time per year	wks	1	0.0%	<2 wks
# of above-ground water treatment processes	#	4	5.0%	4 or more processes
GW monitoring (number wells * events-per-yr)	#	72	2.5%	50.00 to 74.99
Expected system duration	yrs	26.7	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	B	3.0%	little difficulty for minor changes, moderate for major changes
		Summation (%) ->	38.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>38.0%</b>	(must be between 5% and 40%)

### Summary

<b>Baseline present value:</b>	<b>\$13,395,245</b>	0
<b>Estimated potential savings (%):</b>	<b>- 38.0%</b>	
<b>Subtotal</b>	<b>\$5,090,193</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$5,065,193</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

7  
**RPM First Name:** Diego  
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**Date of implementation:** January 1, 2002

**Name of Site:** Dover Municipal Well 4  
**Site City:** Dover  
**Site State:** NJ  
**Site Region:** 2

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$0
Expected duration	yrs	0.0 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$0</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	0.0	#N/A	#N/A
Number of pumping wells	#	0	0.0%	no wells (e.g., drains, etc.)
Pumping rate	gpm	0	-5.0%	<10 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	0	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	0	-2.5%	<25
Expected system duration	yrs	0.0	-20.0%	<2 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		Summation (%) ->	#N/A	
		<b>Estimated potential savings (%) -&gt;</b>	<b>#N/A</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$0</b>	0
<b>Estimated potential savings (%):</b>	<b>- #N/A</b>	
<b>Subtotal</b>	<b>#N/A</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>#N/A</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

8  
**RPM First Name:** Brian  
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**Date of implementation:** January 1, 2002

**Name of Site:** Garden State Cleaners/South Jersey Clothing Company  
**Site City:** Minotola  
**Site State:** NJ  
**Site Region:** 2

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$500,000
Expected duration	yrs	27.7 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$7,409,547</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	15	2.5%	10 or more wells
Pumping rate	gpm	300	0.0%	100 to 500 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	2	0.0%	2 processes
GW monitoring (number wells * events-per-yr)	#	54	2.5%	50.00 to 74.99
Expected system duration	yrs	27.7	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	32.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>32.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$7,409,547</b>	0
<b>Estimated potential savings (%):</b>	<b>- 32.5%</b>	
<b>Subtotal</b>	<b>\$2,408,103</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$2,383,103</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

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**Date of implementation:** January 1, 2002

**Name of Site:** Higgins Farm  
**Site City:** Franklin Township  
**Site State:** NJ  
**Site Region:** 2

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$1,000,000
Expected duration	yrs	26.7 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$14,560,049</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	20	2.5%	10 or more wells
Pumping rate	gpm	30	-2.5%	10 to 99.99 gpm
Down time per year	wks	4	5.0%	4 wks or more
# of above-ground water treatment processes	#	4	5.0%	4 or more processes
GW monitoring (number wells * events-per-yr)	#	102	5.0%	75 or more
Expected system duration	yrs	26.7	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	B	3.0%	little difficulty for minor changes, moderate for major changes
		<i>Summation (%) -&gt;</i>	40.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>40.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$14,560,049</b>	
<b>Estimated potential savings (%):</b>	<b>- 40.0%</b>	
<b>Subtotal</b>	<b>\$5,824,020</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$5,799,020</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

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**Date of implementation:** January 1, 2002

**Name of Site:** Islip Municipal Landfill  
**Site City:** Islip  
**Site State:** NY  
**Site Region:** 2

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$225,000
Expected duration	yrs	1.0 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$214,286</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	6	0.0%	5 to 9 wells
Pumping rate	gpm	300	0.0%	100 to 500 gpm
Down time per year	wks	1	0.0%	<2 wks
# of above-ground water treatment processes	#	2	0.0%	2 processes
GW monitoring (number wells * events-per-yr)	#	96	5.0%	75 or more
Expected system duration	yrs	1.0	-20.0%	<2 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		Summation (%) ->	7.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>7.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$214,286</b>	0
<b>Estimated potential savings (%):</b>	<b>- 7.5%</b>	
<b>Subtotal</b>	<b>\$16,071</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>-\$8,929</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

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**Date of implementation:** January 1, 2002

**Name of Site:** Lang Property  
**Site City:** Pemberton Township, NJ  
**Site State:** NJ  
**Site Region:** 2

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$700,000
Expected duration	yrs	3.0 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$1,907,890</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	1	-5.0%	1 to 2 wells
Pumping rate	gpm	30	-2.5%	10 to 99.99 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	3	2.5%	3 processes
GW monitoring (number wells * events-per-yr)	#	32	0.0%	25.00 to 49.99
Expected system duration	yrs	3.0	-15.0%	2.00 - 4.99yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		Summation (%) ->	2.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>5.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$1,907,890</b>	0
<b>Estimated potential savings (%):</b>	<b>- 5.0%</b>	
<b>Subtotal</b>	<b>\$95,395</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$70,395</b>	<----- <b>Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

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 RPM Last Name: Cataneo  
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Date of implementation: January 1, 2002

Name of Site: Lipari Landfill site  
 Site City: Mantua Township  
 Site State: NJ  
 Site Region: 2

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$2,500,000
Expected duration	yrs	2.9 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$6,634,566</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	25	2.5%	10 or more wells
Pumping rate	gpm	125	0.0%	100 to 500 gpm
Down time per year	wks	2	2.5%	2.00 - 3.99 wks
# of above-ground water treatment processes	#	4	5.0%	4 or more processes
GW monitoring (number wells * events-per-yr)	#	39	0.0%	25.00 to 49.99
Expected system duration	yrs	2.9	-15.0%	2.00 - 4.99yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		Summation (%) ->	17.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>17.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$6,634,566</b>	0
<b>Estimated potential savings (%):</b>	<b>- 17.5%</b>	
<b>Subtotal</b>	<b>\$1,161,049</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$1,136,049</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

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**RPM First Name:** Edward  
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**Date of implementation:** January 1, 2002

**Name of Site:** Mattiace Petrochemical  
**Site City:** Glen Cove, Nassau County  
**Site State:** NY  
**Site Region:** 2

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$700,000
Expected duration	yrs	27.6 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$10,358,307</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	9	0.0%	5 to 9 wells
Pumping rate	gpm	10	-2.5%	10 to 99.99 gpm
Down time per year	wks	2	2.5%	2.00 - 3.99 wks
# of above-ground water treatment processes	#	5	5.0%	4 or more processes
GW monitoring (number wells * events-per-yr)	#	15	-2.5%	<25
Expected system duration	yrs	27.6	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	B	3.0%	little difficulty for minor changes, moderate for major changes
		<i>Summation (%) -&gt;</i>	23.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>23.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$10,358,307</b>	
<b>Estimated potential savings (%):</b>	<b>- 23.0%</b>	
<b>Subtotal</b>	<b>\$2,382,411</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$2,357,411</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**



RPM First Name: Dan  
 RPM Last Name: Weissman  
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Date of implementation: January 1, 2002

Name of Site: Metal TEC/Aerosystems  
 Site City: Franklin  
 Site State: NJ  
 Site Region: 2

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$0
Expected duration	yrs	0.0 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$0</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	0.0	#N/A	#N/A
Number of pumping wells	#	0	0.0%	no wells (e.g., drains, etc.)
Pumping rate	gpm	0	-5.0%	<10 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	0	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	0	-2.5%	<25
Expected system duration	yrs	0.0	-20.0%	<2 yrs
Political/Social factors (minor changes)	A-F	0.0	#N/A	#N/A
		Summation (%) ->	#N/A	
		<b>Estimated potential savings (%) -&gt;</b>	<b>#N/A</b>	(must be between 5% and 40%)

### Summary

Baseline present value:	\$0	0
Estimated potential savings (%):	- #N/A	
Subtotal	#N/A	
Estimated RSE cost (Tier 3):	- \$25,000	
	#N/A	<----- Estimated potential savings (\$)

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

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Date of implementation: January 1, 2002

Name of Site: Mohonk Road Industrial Plant  
 Site City: High Falls  
 Site State: NY  
 Site Region: 2

Cost Item	Units	Value	
Annual O&M cost	\$/yr	\$0	
Expected duration	yrs	29.5	<-max of 30 yrs
Discount rate	%	5.00%	
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$0</b>	

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	3	-2.5%	3 to 4 wells
Pumping rate	gpm	40	-2.5%	10 to 99.99 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	4	5.0%	4 or more processes
GW monitoring (number wells * events-per-yr)	#	34	0.0%	25.00 to 49.99
Expected system duration	yrs	29.5	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	B	3.0%	little difficulty for minor changes, moderate for major changes
		Summation (%) ->	25.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>25.5%</b>	(must be between 5% and 40%)

### Summary

	0	
<b>Baseline present value:</b>	<b>\$0</b>	
<b>Estimated potential savings (%):</b>	<b>- 25.5%</b>	
<b>Subtotal</b>	<b>\$0</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>- \$25,000</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

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Date of implementation: January 1, 2002

Name of Site: Montgomery Township/Rocky Hill  
 Site City: Montgomery Township  
 Site State: NJ  
 Site Region: 2

Cost Item	Units	Value	
Annual O&M cost	\$/yr	\$400,000	
Expected duration	yrs	30.0	<-max of 30 yrs
Discount rate	%	5.00%	
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$6,148,980</b>	

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	3	-2.5%	3 to 4 wells
Pumping rate	gpm	250	0.0%	100 to 500 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	2	0.0%	2 processes
GW monitoring (number wells * events-per-yr)	#	80	5.0%	75 or more
Expected system duration	yrs	30.0	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	B	3.0%	little difficulty for minor changes, moderate for major changes
		Summation (%) ->	28.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>28.0%</b>	(must be between 5% and 40%)

### Summary

<b>Baseline present value:</b>	<b>\$6,148,980</b>	0
<b>Estimated potential savings (%):</b>	<b>- 28.0%</b>	
<b>Subtotal</b>	<b>\$1,721,715</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$1,696,715</b>	<----- <b>Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

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**Date of implementation:** January 1, 2002

**Name of Site:** SMS Instruments  
**Site City:** Deer Park  
**Site State:** NY  
**Site Region:** 2

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$400,000
Expected duration	yrs	2.2 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$801,729</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	2	-5.0%	1 to 2 wells
Pumping rate	gpm	100	0.0%	100 to 500 gpm
Down time per year	wks	2	2.5%	2.00 - 3.99 wks
# of above-ground water treatment processes	#	2	0.0%	2 processes
GW monitoring (number wells * events-per-yr)	#	72	2.5%	50.00 to 74.99
Expected system duration	yrs	2.2	-15.0%	2.00 - 4.99yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	7.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>7.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$801,729</b>	0
<b>Estimated potential savings (%):</b>	<b>- 7.5%</b>	
<b>Subtotal</b>	<b>\$60,130</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$35,130</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

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**Date of implementation:** January 1, 2002

**Name of Site:** Stanton Cleaners Area Groundwater Contamination Site  
**Site City:** Great Neck  
**Site State:** NY  
**Site Region:** 2

Cost Item	Units	Value	
Annual O&M cost	\$/yr	\$270,000	
Expected duration	yrs	19.7	<-max of 30 yrs
Discount rate	%	5.00%	
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$3,332,717</b>	

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	3	-2.5%	3 to 4 wells
Pumping rate	gpm	90	-2.5%	10 to 99.99 gpm
Down time per year	wks	1	0.0%	<2 wks
# of above-ground water treatment processes	#	5	5.0%	4 or more processes
GW monitoring (number wells * events-per-yr)	#	120	5.0%	75 or more
Expected system duration	yrs	19.7	-2.5%	10.00 - 19.99 yrs
Political/Social factors (minor changes)	A-F	B	3.0%	little difficulty for minor changes, moderate for major changes
		<i>Summation (%) -&gt;</i>	28.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>28.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$3,332,717</b>	0
<b>Estimated potential savings (%):</b>	<b>- 28.0%</b>	
<b>Subtotal</b>	<b>\$933,161</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$908,161</b>	<----- <b>Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

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Date of implementation: January 1, 2002

Name of Site: Syncon Resins  
 Site City: Kearny  
 Site State: NJ  
 Site Region: 2

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$350,000
Expected duration	yrs	26.7 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$5,096,017</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	B	5.0%	Performance evaluated and found insufficient
Number of pumping wells	#	3	-2.5%	3 to 4 wells
Pumping rate	gpm	20	-2.5%	10 to 99.99 gpm
Down time per year	wks	3	2.5%	2.00 - 3.99 wks
# of above-ground water treatment processes	#	6	5.0%	4 or more processes
GW monitoring (number wells * events-per-yr)	#	0	-2.5%	<25
Expected system duration	yrs	26.7	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	B	3.0%	little difficulty for minor changes, moderate for major changes
		Summation (%) ->	28.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>28.0%</b>	(must be between 5% and 40%)

### Summary

<b>Baseline present value:</b>	<b>\$5,096,017</b>	0
<b>Estimated potential savings (%):</b>	<b>- 28.0%</b>	
<b>Subtotal</b>	<b>\$1,426,885</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$1,401,885</b>	<----- <b>Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

20

**RPM First Name:** Sharon  
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**Date of implementation:** January 1, 2002

**Name of Site:** Vestal Water Supply Well 1-1  
**Site City:** Vestal  
**Site State:** NY  
**Site Region:** 2

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$180,000
Expected duration	yrs	13.2 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$1,706,600</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	1	-5.0%	1 to 2 wells
Pumping rate	gpm	450	0.0%	100 to 500 gpm
Down time per year	wks	1	0.0%	<2 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	12	-2.5%	<25
Expected system duration	yrs	13.2	-2.5%	10.00 - 19.99 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	10.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>10.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$1,706,600</b>	0
<b>Estimated potential savings (%):</b>	<b>- 10.0%</b>	
<b>Subtotal</b>	<b>\$170,660</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$145,660</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

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**Date of implementation:** January 1, 2002

**Name of Site:** Vineland Chemical Co. Groundwater Treatment  
**Site City:** Vineland  
**Site State:** NJ  
**Site Region:** 2

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$4,000,000
Expected duration	yrs	29.4 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$60,970,474</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	13	2.5%	10 or more wells
Pumping rate	gpm	1400	2.5%	>500 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	2	0.0%	2 processes
GW monitoring (number wells * events-per-yr)	#	2080	5.0%	75 or more
Expected system duration	yrs	29.4	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	E	-2.5%	moderate difficulty for minor changes, severe for major changes
		Summation (%) ->	30.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>30.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$60,970,474</b>	0
<b>Estimated potential savings (%):</b>	<b>- 30.0%</b>	
<b>Subtotal</b>	<b>\$18,291,142</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$18,266,142</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**



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 RPM Last Name: Cataneo  
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Date of implementation: January 1, 2002

Name of Site: Williams Property  
 Site City: Swainton, Middle Township  
 Site State: NJ  
 Site Region: 2

Cost Item	Units	Value	
Annual O&M cost	\$/yr	\$350,000	
Expected duration	yrs	0.0	<-max of 30 yrs
Discount rate	%	5.00%	
<b>Baseline present value -&gt;</b>	\$	\$0	

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	2	-5.0%	1 to 2 wells
Pumping rate	gpm	80	-2.5%	10 to 99.99 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	4	5.0%	4 or more processes
GW monitoring (number wells * events-per-yr)	#	36	0.0%	25.00 to 49.99
Expected system duration	yrs	0.0	-20.0%	<2 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		Summation (%) ->	0.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>5.0%</b>	(must be between 5% and 40%)

**Summary**

Baseline present value:	\$0	0
Estimated potential savings (%):	- 5.0%	
Subtotal	\$0	
Estimated RSE cost (Tier 3):	- \$25,000	
	- \$25,000	<----- Estimated potential savings (\$)

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

## **REGION 3 SCREENING CALCULATIONS**

1  
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**RPM Last Name:** Root  
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**RPM fax:** 215-814-3002  
**RPM email:** root.charlie@epa.gov  
**Date of implementation:** January 1, 2002

**Name of Site:** AIW Frank/Mid-County Mustang Site, OU#1  
**Site City:** Exton  
**Site State:** PA  
**Site Region:** 3

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$180,000
Expected duration	yrs	29.7 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$2,754,138</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	5	0.0%	5 to 9 wells
Pumping rate	gpm	118	0.0%	100 to 500 gpm
Down time per year	wks	1	0.0%	<2 wks
# of above-ground water treatment processes	#	4	5.0%	4 or more processes
GW monitoring (number wells * events-per-yr)	#	60	2.5%	50.00 to 74.99
Expected system duration	yrs	29.7	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	B	3.0%	little difficulty for minor changes, moderate for major changes
		<i>Summation (%) -&gt;</i>	28.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>28.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$2,754,138</b>	
<b>Estimated potential savings (%):</b>	<b>- 28.0%</b>	
<b>Subtotal</b>	<b>\$771,159</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$746,159</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

2  
**RPM First Name:** Bruce  
**RPM Last Name:** Rundell  
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**Date of implementation:** January 1, 2002

**Name of Site:** Berks Sand Pit  
**Site City:** Huffs Church  
**Site State:** PA  
**Site Region:** 3

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$150,000
Expected duration	yrs	1.1 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$154,672</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	1	-5.0%	1 to 2 wells
Pumping rate	gpm	90	-2.5%	10 to 99.99 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	48	0.0%	25.00 to 49.99
Expected system duration	yrs	1.1	-20.0%	<2 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	-7.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>5.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$154,672</b>	
<b>Estimated potential savings (%):</b>	<b>- 5.0%</b>	
<b>Subtotal</b>	<b>\$7,734</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>-\$17,266</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

3  
**RPM First Name:** Rom  
**RPM Last Name:** Roman  
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**Date of implementation:** January 1, 2002

**Name of Site:** Butz Landfill  
**Site City:** Monroe Township  
**Site State:** PA  
**Site Region:** 3

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$250,000
Expected duration	yrs	29.3 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$3,800,917</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	3	-2.5%	3 to 4 wells
Pumping rate	gpm	90	-2.5%	10 to 99.99 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	2	0.0%	2 processes
GW monitoring (number wells * events-per-yr)	#	68	2.5%	50.00 to 74.99
Expected system duration	yrs	29.3	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		Summation (%) ->	25.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>25.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$3,800,917</b>
<b>Estimated potential savings (%):</b>	<b>- 25.0%</b>
<b>Subtotal</b>	<b>\$950,229</b>
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>
	<b>\$925,229 &lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

4

**RPM First Name:** Cesar  
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**Date of implementation:** January 1, 2002

**Name of Site:** Croydon TCE  
**Site City:** Bristol Township  
**Site State:** PA  
**Site Region:** 3

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$200,000
Expected duration	yrs	23.2 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$2,708,981</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	6	0.0%	5 to 9 wells
Pumping rate	gpm	25	-2.5%	10 to 99.99 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	2	0.0%	2 processes
GW monitoring (number wells * events-per-yr)	#	28	0.0%	25.00 to 49.99
Expected system duration	yrs	23.2	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	20.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>20.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$2,708,981</b>	
<b>Estimated potential savings (%):</b>	<b>- 20.0%</b>	
<b>Subtotal</b>	<b>\$541,796</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$516,796</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

5  
**RPM First Name:** Joseph  
**RPM Last Name:** McDowell  
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**Date of implementation:** January 1, 2002

**Name of Site:** CryoChem  
**Site City:** Earl Township  
**Site State:** PA  
**Site Region:** 3

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$125,000
Expected duration	yrs	8.4 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$842,157</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	9	0.0%	5 to 9 wells
Pumping rate	gpm	60	-2.5%	10 to 99.99 gpm
Down time per year	wks	1	0.0%	<2 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	4	-2.5%	<25
Expected system duration	yrs	8.4	-5.0%	5.00 - 9.99 yrs
Political/Social factors (minor changes)	A-F	B	3.0%	little difficulty for minor changes, moderate for major changes
		<i>Summation (%) -&gt;</i>	8.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>8.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$842,157</b>	
<b>Estimated potential savings (%):</b>	<b>- 8.0%</b>	
<b>Subtotal</b>	<b>\$67,373</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$42,373</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

6

RPM First Name: Philip  
 RPM Last Name: Rotstein  
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Date of implementation: January 1, 2002

Name of Site: Greenwood Chemical Site  
 Site City: Greenwood  
 Site State: VA  
 Site Region: 3

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$400,000
Expected duration	yrs	18.8 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$4,810,341</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	5	0.0%	5 to 9 wells
Pumping rate	gpm	45	-2.5%	10 to 99.99 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	5	5.0%	4 or more processes
GW monitoring (number wells * events-per-yr)	#	136	5.0%	75 or more
Expected system duration	yrs	18.8	-2.5%	10.00 - 19.99 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		Summation (%) ->	32.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>32.5%</b>	(must be between 5% and 40%)

### Summary

<b>Baseline present value:</b>	<b>\$4,810,341</b>	
<b>Estimated potential savings (%):</b>	<b>- 32.5%</b>	
<b>Subtotal</b>	<b>\$1,563,361</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$1,538,361</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**



7  
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**Date of implementation:** January 1, 2002

**Name of Site:** Havertown PCP OU2  
**Site City:** Havertown  
**Site State:** PA  
**Site Region:** 3

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$1,000,000
Expected duration	yrs	30.0 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$15,372,451</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	4	-2.5%	3 to 4 wells
Pumping rate	gpm	45	-2.5%	10 to 99.99 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	4	5.0%	4 or more processes
GW monitoring (number wells * events-per-yr)	#	30	0.0%	25.00 to 49.99
Expected system duration	yrs	30.0	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	B	3.0%	little difficulty for minor changes, moderate for major changes
		<i>Summation (%) -&gt;</i>	25.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>25.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$15,372,451</b>	
<b>Estimated potential savings (%):</b>	<b>- 25.5%</b>	
<b>Subtotal</b>	<b>\$3,919,975</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$3,894,975</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

8  
**RPM First Name:** Cesar  
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**Date of implementation:** January 1, 2002

**Name of Site:** Hellertown Manufacturing  
**Site City:** Bethlehem  
**Site State:** PA  
**Site Region:** 3

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$350,000
Expected duration	yrs	24.7 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$4,900,578</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	B	5.0%	Performance evaluated and found insufficient
Number of pumping wells	#	1	-5.0%	1 to 2 wells
Pumping rate	gpm	50	-2.5%	10 to 99.99 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	2	0.0%	2 processes
GW monitoring (number wells * events-per-yr)	#	48	0.0%	25.00 to 49.99
Expected system duration	yrs	24.7	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	B	3.0%	little difficulty for minor changes, moderate for major changes
		<i>Summation (%) -&gt;</i>	20.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>20.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$4,900,578</b>	
<b>Estimated potential savings (%):</b>	<b>- 20.5%</b>	
<b>Subtotal</b>	<b>\$1,004,619</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$979,619</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

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**Date of implementation:** January 1, 2002

**Name of Site:** North Penn Area 1  
**Site City:** Souderton, Montgomery County  
**Site State:** PA  
**Site Region:** 3

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$100,000
Expected duration	yrs	16.7 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$1,113,534</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	1	-5.0%	1 to 2 wells
Pumping rate	gpm	2	-5.0%	<10 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	8	-2.5%	<25
Expected system duration	yrs	16.7	-2.5%	10.00 - 19.99 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	10.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>10.0%</b>	(must be between 5% and 40%)

### Summary

<b>Baseline present value:</b>	<b>\$1,113,534</b>	
<b>Estimated potential savings (%):</b>	<b>- 10.0%</b>	
<b>Subtotal</b>	<b>\$111,353</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$86,353</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

10

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**Date of implementation:** January 1, 2002

**Name of Site:** North Penn Area 6  
**Site City:** Lansdale  
**Site State:** PA  
**Site Region:** 3

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$592,900
Expected duration	yrs	30.0 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$9,114,326</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	10	2.5%	10 or more wells
Pumping rate	gpm	300	0.0%	100 to 500 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	3	2.5%	3 processes
GW monitoring (number wells * events-per-yr)	#	120	5.0%	75 or more
Expected system duration	yrs	30.0	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	B	3.0%	little difficulty for minor changes, moderate for major changes
		<i>Summation (%) -&gt;</i>	35.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>35.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$9,114,326</b>	
<b>Estimated potential savings (%):</b>	<b>- 35.5%</b>	
<b>Subtotal</b>	<b>\$3,235,586</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$3,210,586</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

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Date of implementation: January 1, 2002

Name of Site: Raymark  
 Site City: Hatboro  
 Site State: PA  
 Site Region: 3

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$155,711
Expected duration	yrs	12.0 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$1,380,802</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	2	-5.0%	1 to 2 wells
Pumping rate	gpm	62	-2.5%	10 to 99.99 gpm
Down time per year	wks	2	2.5%	2.00 - 3.99 wks
# of above-ground water treatment processes	#	2	0.0%	2 processes
GW monitoring (number wells * events-per-yr)	#	0	-2.5%	<25
Expected system duration	yrs	12.0	-2.5%	10.00 - 19.99 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		Summation (%) ->	17.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>17.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$1,380,802</b>	
<b>Estimated potential savings (%):</b>	<b>- 17.5%</b>	
<b>Subtotal</b>	<b>\$241,640</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$216,640</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

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Date of implementation: January 1, 2002

Name of Site: Saunders Supply Company  
 Site City: Chuckatuck  
 Site State: VA  
 Site Region: 3

Cost Item	Units	Value	
Annual O&M cost	\$/yr	\$80,000	
Expected duration	yrs	6.3	<-max of 30 yrs
Discount rate	%	5.00%	
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$420,648</b>	

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	4	-2.5%	3 to 4 wells
Pumping rate	gpm	2	-5.0%	<10 gpm
Down time per year	wks	2	2.5%	2.00 - 3.99 wks
# of above-ground water treatment processes	#	3	2.5%	3 processes
GW monitoring (number wells * events-per-yr)	#	40	0.0%	25.00 to 49.99
Expected system duration	yrs	6.3	-5.0%	5.00 - 9.99 yrs
Political/Social factors (minor changes)	A-F	C	2.0%	little difficulty for minor changes, severe for major changes
		Summation (%) ->	17.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>17.0%</b>	(must be between 5% and 40%)

### Summary

<b>Baseline present value:</b>	<b>\$420,648</b>	
<b>Estimated potential savings (%):</b>	<b>- 17.0%</b>	
<b>Subtotal</b>	<b>\$71,510</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$46,510</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

## **REGION 4 SCREENING CALCULATIONS**

1  
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**Date of implementation:** January 1, 2002

**Name of Site:** ABC Cleaners  
**Site City:** Jacksonville  
**Site State:** NC  
**Site Region:** 4

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$0
Expected duration	yrs	0.0 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	\$	<b>\$0</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	0.0	#N/A	#N/A
Number of pumping wells	#	0	0.0%	no wells (e.g., drains, etc.)
Pumping rate	gpm	0	-5.0%	<10 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	2	0.0%	2 processes
GW monitoring (number wells * events-per-yr)	#	0	-2.5%	<25
Expected system duration	yrs	0.0	-20.0%	<2 yrs
Political/Social factors (minor changes)	A-F	0.0	#N/A	#N/A
		<i>Summation (%) -&gt;</i>	#N/A	
		<b>Estimated potential savings (%) -&gt;</b>	<b>#N/A</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$0</b>
<b>Estimated potential savings (%):</b>	<b>- #N/A</b>
<b>Subtotal</b>	<b>#N/A</b>
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>
	<b>#N/A &lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**



2  
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**Date of implementation:** January 1, 2002

**Name of Site:** American Creosote Works (DNAPL)  
**Site City:** Pensacola  
**Site State:** FL  
**Site Region:** 4

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$300,000
Expected duration	yrs	1.3 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	\$	<b>\$376,644</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	8	0.0%	5 to 9 wells
Pumping rate	gpm	0	-5.0%	<10 gpm
Down time per year	wks	4	5.0%	4 wks or more
# of above-ground water treatment processes	#	3	2.5%	3 processes
GW monitoring (number wells * events-per-yr)	#	8	-2.5%	<25
Expected system duration	yrs	1.3	-20.0%	<2 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	7.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>7.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$376,644</b>	
<b>Estimated potential savings (%):</b>	<b>- 7.5%</b>	
<b>Subtotal</b>	<b>\$28,248</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$3,248</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

3  
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**Date of implementation:** January 1, 2002

**Name of Site:** American Creosote Works (solute)  
**Site City:** Pensacola  
**Site State:** FL  
**Site Region:** 4

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$452,000
Expected duration	yrs	7.7 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$2,822,434</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	3	-2.5%	3 to 4 wells
Pumping rate	gpm	105	0.0%	100 to 500 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	2	0.0%	2 processes
GW monitoring (number wells * events-per-yr)	#	20	-2.5%	<25
Expected system duration	yrs	7.7	-5.0%	5.00 - 9.99 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	17.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>17.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$2,822,434</b>	
<b>Estimated potential savings (%):</b>	<b>- 17.5%</b>	
<b>Subtotal</b>	<b>\$493,926</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$468,926</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

4  
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**Date of implementation:** January 1, 2002

**Name of Site:** Benfield Industries  
**Site City:** Hazelwood  
**Site State:** NC  
**Site Region:** 4

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$30,000
Expected duration	yrs	19.3 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$366,494</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	2	-5.0%	1 to 2 wells
Pumping rate	gpm	16	-2.5%	10 to 99.99 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	32	0.0%	25.00 to 49.99
Expected system duration	yrs	19.3	-2.5%	10.00 - 19.99 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	15.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>15.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$366,494</b>	
<b>Estimated potential savings (%):</b>	<b>- 15.0%</b>	
<b>Subtotal</b>	<b>\$54,974</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$29,974</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

5  
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**Date of implementation:** January 1, 2002

**Name of Site:** Cape Fear Wood Preserving  
**Site City:** Fayetteville  
**Site State:** NC  
**Site Region:** 4

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$40,000
Expected duration	yrs	7.9 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$256,425</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	7	0.0%	5 to 9 wells
Pumping rate	gpm	43	-2.5%	10 to 99.99 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	100	5.0%	75 or more
Expected system duration	yrs	7.9	-5.0%	5.00 - 9.99 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	22.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>22.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$256,425</b>	
<b>Estimated potential savings (%):</b>	<b>- 22.5%</b>	
<b>Subtotal</b>	<b>\$57,696</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$32,696</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

6  
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**Date of implementation:** January 1, 2002

**Name of Site:** Coleman Evans Wood Preserving  
**Site City:** Whitehouse  
**Site State:** FL  
**Site Region:** 4

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$0
Expected duration	yrs	0.0 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	\$	<b>\$0</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	0.0	#N/A	#N/A
Number of pumping wells	#	0	0.0%	no wells (e.g., drains, etc.)
Pumping rate	gpm	0	-5.0%	<10 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	0	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	0	-2.5%	<25
Expected system duration	yrs	0.0	-20.0%	<2 yrs
Political/Social factors (minor changes)	A-F	0.0	#N/A	#N/A
		<i>Summation (%) -&gt;</i>	#N/A	
		<b>Estimated potential savings (%) -&gt;</b>	<b>#N/A</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$0</b>
<b>Estimated potential savings (%):</b>	<b>- #N/A</b>
<b>Subtotal</b>	<b>#N/A</b>
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>
	<b>#N/A &lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

7  
**RPM First Name:** Ralph  
**RPM Last Name:** Howard  
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**Date of implementation:** January 1, 2002

**Name of Site:** Elmore Waste Disposal  
**Site City:** Greer  
**Site State:** SC  
**Site Region:** 4

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$180,000
Expected duration	yrs	16.7 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$2,004,361</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	9	0.0%	5 to 9 wells
Pumping rate	gpm	30	-2.5%	10 to 99.99 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	2	0.0%	2 processes
GW monitoring (number wells * events-per-yr)	#	68	2.5%	50.00 to 74.99
Expected system duration	yrs	16.7	-2.5%	10.00 - 19.99 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	20.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>20.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$2,004,361</b>	
<b>Estimated potential savings (%):</b>	<b>- 20.0%</b>	
<b>Subtotal</b>	<b>\$400,872</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$375,872</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

8  
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**Date of implementation:** January 1, 2002

**Name of Site:** FCX Statesville  
**Site City:** Statesville  
**Site State:** NC  
**Site Region:** 4

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$150,000
Expected duration	yrs	6.3 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$797,565</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	10	2.5%	10 or more wells
Pumping rate	gpm	20	-2.5%	10 to 99.99 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	2	0.0%	2 processes
GW monitoring (number wells * events-per-yr)	#	72	2.5%	50.00 to 74.99
Expected system duration	yrs	6.3	-5.0%	5.00 - 9.99 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	20.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>20.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$797,565</b>	
<b>Estimated potential savings (%):</b>	<b>- 20.0%</b>	
<b>Subtotal</b>	<b>\$159,513</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$134,513</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

9  
**RPM First Name:** Jim  
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**Date of implementation:** January 1, 2002

**Name of Site:** Miami Drum  
**Site City:** Hialeah  
**Site State:** FL  
**Site Region:** 4

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$1,000,000
Expected duration	yrs	0.0 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	\$	<b>\$0</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	0.0	#N/A	#N/A
Number of pumping wells	#	40	2.5%	10 or more wells
Pumping rate	gpm	104000	2.5%	>500 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	0	-2.5%	<25
Expected system duration	yrs	0.0	-20.0%	<2 yrs
Political/Social factors (minor changes)	A-F	0.0	#N/A	#N/A
		<i>Summation (%) -&gt;</i>	#N/A	
		<b>Estimated potential savings (%) -&gt;</b>	<b>#N/A</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$0</b>
<b>Estimated potential savings (%):</b>	<b>- #N/A</b>
<b>Subtotal</b>	<b>#N/A</b>
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>
	<b>#N/A &lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**



10  
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**Date of implementation:** January 1, 2002

**Name of Site:** Palmetto Wood  
**Site City:** Lexington  
**Site State:** SC  
**Site Region:** 4

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$300,000
Expected duration	yrs	6.3 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$1,595,131</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	10	2.5%	10 or more wells
Pumping rate	gpm	130	0.0%	100 to 500 gpm
Down time per year	wks	4	5.0%	4 wks or more
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	16	-2.5%	<25
Expected system duration	yrs	6.3	-5.0%	5.00 - 9.99 yrs
Political/Social factors (minor changes)	A-F	B	3.0%	little difficulty for minor changes, moderate for major changes
		<i>Summation (%) -&gt;</i>	18.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>18.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$1,595,131</b>	
<b>Estimated potential savings (%):</b>	<b>- 18.0%</b>	
<b>Subtotal</b>	<b>\$287,124</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$262,124</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

## **REGION 5 SCREENING CALCULATIONS**

1  
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**Date of implementation:** January 1, 2002

**Name of Site:** Arrowhead Refinery  
**Site City:** Hermantown  
**Site State:** MN  
**Site Region:** 5

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$70,000
Expected duration	yrs	2.2 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$145,512</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	0	0.0%	no wells (e.g., drains, etc.)
Pumping rate	gpm	25	-2.5%	10 to 99.99 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	36	0.0%	25.00 to 49.99
Expected system duration	yrs	2.2	-15.0%	2.00 - 4.99yrs
Political/Social factors (minor changes)	A-F	B	3.0%	little difficulty for minor changes, moderate for major changes
		Summation (%) ->	0.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>5.0%</b>	(must be between 5% and 40%)

**Summary**

	0
<b>Baseline present value:</b>	<b>\$145,512</b>
<b>Estimated potential savings (%):</b>	<b>- 5.0%</b>
<b>Subtotal</b>	<b>\$7,276</b>
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>
	<b>-\$17,724 &lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

2  
**RPM First Name:** John  
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**Date of implementation:** January 1, 2002

**Name of Site:** Better Brite Plating Co. Chrome and Zinc Shops  
**Site City:** Depere  
**Site State:** WI  
**Site Region:** 5

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$36,000
Expected duration	yrs	28.3 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$538,699</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	0	0.0%	no wells (e.g., drains, etc.)
Pumping rate	gpm	0	-5.0%	<10 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	28	0.0%	25.00 to 49.99
Expected system duration	yrs	28.3	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	C	2.0%	little difficulty for minor changes, severe for major changes
		<i>Summation (%) -&gt;</i>	12.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>12.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$538,699</b>	0
<b>Estimated potential savings (%):</b>	<b>- 12.0%</b>	
<b>Subtotal</b>	<b>\$64,644</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$39,644</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

3  
**RPM First Name:** Dion  
**RPM Last Name:** Novak  
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**RPM email:** Novak.Dion@epa.gov  
**Date of implementation:** January 1, 2002

**Name of Site:** Douglass Road  
**Site City:** Mishawaka  
**Site State:** IN  
**Site Region:** 5

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$120,000
Expected duration	yrs	28.8 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$1,810,266</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	5	0.0%	5 to 9 wells
Pumping rate	gpm	1000	2.5%	>500 gpm
Down time per year	wks	2	2.5%	2.00 - 3.99 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	72	2.5%	50.00 to 74.99
Expected system duration	yrs	28.8	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		Summation (%) ->	32.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>32.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$1,810,266</b>	0
<b>Estimated potential savings (%):</b>	<b>- 32.5%</b>	
<b>Subtotal</b>	<b>\$588,336</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$563,336</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

4  
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**RPM Last Name:** Rogers  
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**Date of implementation:** January 1, 2002

**Name of Site:** Duell and Gardner  
**Site City:** Dalton Township  
**Site State:** MI  
**Site Region:** 5

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$0
Expected duration	yrs	5.5 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$0</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	2	-5.0%	1 to 2 wells
Pumping rate	gpm	80	-2.5%	10 to 99.99 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	50	2.5%	50.00 to 74.99
Expected system duration	yrs	5.5	-5.0%	5.00 - 9.99 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	15.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>15.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$0</b>	0
<b>Estimated potential savings (%):</b>	<b>- 15.0%</b>	
<b>Subtotal</b>	<b>\$0</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>- \$25,000</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

5  
**RPM First Name:** Sheri  
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**Date of implementation:** January 1, 2002

**Name of Site:** Eau Claire Municipal Well Field  
**Site City:** Eau Claire  
**Site State:** WI  
**Site Region:** 5

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$175,000
Expected duration	yrs	0.0 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	\$	<b>\$0</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	14	2.5%	10 or more wells
Pumping rate	gpm	4500	2.5%	>500 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	0	-2.5%	<25
Expected system duration	yrs	0.0	-20.0%	<2 yrs
Political/Social factors (minor changes)	A-F	F	-5.0%	severe difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	-7.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>5.0%</b>	(must be between 5% and 40%)

**Summary**

	0
<b>Baseline present value:</b>	<b>\$0</b>
<b>Estimated potential savings (%):</b>	<b>- 5.0%</b>
<b>Subtotal</b>	<b>\$0</b>
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>
	<b>- \$25,000 &lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

6  
**RPM First Name:** Steve  
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**Date of implementation:** January 1, 2002

**Name of Site:** La Salle Electrical Utilities  
**Site City:** La Salle  
**Site State:** IL  
**Site Region:** 5

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$230,000
Expected duration	yrs	3.2 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$658,089</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	0	0.0%	no wells (e.g., drains, etc.)
Pumping rate	gpm	20	-2.5%	10 to 99.99 gpm
Down time per year	wks	2	2.5%	2.00 - 3.99 wks
# of above-ground water treatment processes	#	2	0.0%	2 processes
GW monitoring (number wells * events-per-yr)	#	100	5.0%	75 or more
Expected system duration	yrs	3.2	-15.0%	2.00 - 4.99yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	12.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>12.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$658,089</b>	0
<b>Estimated potential savings (%):</b>	<b>- 12.5%</b>	
<b>Subtotal</b>	<b>\$82,261</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$57,261</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**



7  
**RPM First Name:** Sheila  
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**Date of implementation:** January 1, 2002

**Name of Site:** Long Prairie  
**Site City:** Long Prairie  
**Site State:** MN  
**Site Region:** 5

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$300,000
Expected duration	yrs	13.8 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$2,933,325</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	9	0.0%	5 to 9 wells
Pumping rate	gpm	227	0.0%	100 to 500 gpm
Down time per year	wks	2	2.5%	2.00 - 3.99 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	22	-2.5%	<25
Expected system duration	yrs	13.8	-2.5%	10.00 - 19.99 yrs
Political/Social factors (minor changes)	A-F	B	3.0%	little difficulty for minor changes, moderate for major changes
		<i>Summation (%) -&gt;</i>	15.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>15.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$2,933,325</b>	0
<b>Estimated potential savings (%):</b>	<b>- 15.5%</b>	
<b>Subtotal</b>	<b>\$454,665</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$429,665</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

8  
**RPM First Name:** Darryl  
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**Date of implementation:** January 1, 2002

**Name of Site:** MacGillis and Gibbs/Bell Lumber & Pole  
**Site City:** New Brighton  
**Site State:** MN  
**Site Region:** 5

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$300,000
Expected duration	yrs	27.8 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$4,451,949</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	14	2.5%	10 or more wells
Pumping rate	gpm	60	-2.5%	10 to 99.99 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	4	5.0%	4 or more processes
GW monitoring (number wells * events-per-yr)	#	60	2.5%	50.00 to 74.99
Expected system duration	yrs	27.8	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	C	2.0%	little difficulty for minor changes, severe for major changes
		<i>Summation (%) -&gt;</i>	32.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>32.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$4,451,949</b>	0
<b>Estimated potential savings (%):</b>	<b>- 32.0%</b>	
<b>Subtotal</b>	<b>\$1,424,624</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$1,399,624</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

9  
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**Date of implementation:** January 1, 2002

**Name of Site:** Oconomowoc Electroplating  
**Site City:** Ashippun  
**Site State:** WI  
**Site Region:** 5

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$471,000
Expected duration	yrs	24.7 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$6,594,778</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	5	0.0%	5 to 9 wells
Pumping rate	gpm	30	-2.5%	10 to 99.99 gpm
Down time per year	wks	4	5.0%	4 wks or more
# of above-ground water treatment processes	#	3	2.5%	3 processes
GW monitoring (number wells * events-per-yr)	#	40	0.0%	25.00 to 49.99
Expected system duration	yrs	24.7	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	C	2.0%	little difficulty for minor changes, severe for major changes
		<i>Summation (%) -&gt;</i>	24.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>24.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$6,594,778</b>	0
<b>Estimated potential savings (%):</b>	<b>- 24.5%</b>	
<b>Subtotal</b>	<b>\$1,615,721</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$1,590,721</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

10

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**Date of implementation:** January 1, 2002

**Name of Site:** Onalaska Municipal Landfill  
**Site City:** Onalaska  
**Site State:** WI  
**Site Region:** 5

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$200,000
Expected duration	yrs	0.5 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$95,617</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	5	0.0%	5 to 9 wells
Pumping rate	gpm	560	2.5%	>500 gpm
Down time per year	wks	1	0.0%	<2 wks
# of above-ground water treatment processes	#	2	0.0%	2 processes
GW monitoring (number wells * events-per-yr)	#	20	-2.5%	<25
Expected system duration	yrs	0.5	-20.0%	<2 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	2.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>5.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$95,617</b>	0
<b>Estimated potential savings (%):</b>	<b>- 5.0%</b>	
<b>Subtotal</b>	<b>\$4,781</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>-\$20,219</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

11

RPM First Name: John  
 RPM Last Name: Fagiolo  
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Date of implementation: January 1, 2002

Name of Site: Ott/Story/Cordova Chem Co.  
 Site City: Dalton Township  
 Site State: MI  
 Site Region: 5

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$2,400,000
Expected duration	yrs	28.6 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$36,108,756</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	10	2.5%	10 or more wells
Pumping rate	gpm	700	2.5%	>500 gpm
Down time per year	wks	4	5.0%	4 wks or more
# of above-ground water treatment processes	#	3	2.5%	3 processes
GW monitoring (number wells * events-per-yr)	#	120	5.0%	75 or more
Expected system duration	yrs	28.6	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		Summation (%) ->	45.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>40.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$36,108,756</b>	0
<b>Estimated potential savings (%):</b>	<b>- 40.0%</b>	
<b>Subtotal</b>	<b>\$14,443,502</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$14,418,502</b>	<----- <b>Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

12

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 RPM Last Name: Ribordy  
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 RPM fax: 0.0%  
 RPM email: ribordy.mike@epa.gov

Date of implementation: January 1, 2002

Name of Site: Peerless Plating  
 Site City: Muskegon Township  
 Site State: MI  
 Site Region: 5

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$400,000
Expected duration	yrs	0.0 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$0</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	6	0.0%	5 to 9 wells
Pumping rate	gpm	165	0.0%	100 to 500 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	3	2.5%	3 processes
GW monitoring (number wells * events-per-yr)	#	24	-2.5%	<25
Expected system duration	yrs	0.0	-20.0%	<2 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		Summation (%) ->	2.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>5.0%</b>	(must be between 5% and 40%)

**Summary**

	0
<b>Baseline present value:</b>	<b>\$0</b>
<b>Estimated potential savings (%):</b>	<b>- 5.0%</b>
<b>Subtotal</b>	<b>\$0</b>
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>
	<b>- \$25,000 &lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

13

RPM First Name: Ken  
 RPM Last Name: Glatz  
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 RPM email: glatz.ken@epa.gov

Date of implementation: January 1, 2002

Name of Site: U.S. Aviex  
 Site City: Howard Township  
 Site State: MI  
 Site Region: 5

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$300,000
Expected duration	yrs	1.7 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$468,345</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	6	0.0%	5 to 9 wells
Pumping rate	gpm	170	0.0%	100 to 500 gpm
Down time per year	wks	1	0.0%	<2 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	120	5.0%	75 or more
Expected system duration	yrs	1.7	-20.0%	<2 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		Summation (%) ->	5.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>5.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$468,345</b>	0
<b>Estimated potential savings (%):</b>	<b>- 5.0%</b>	
<b>Subtotal</b>	<b>\$23,417</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>-\$1,583</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

RPM First Name: Richard  
 RPM Last Name: Boice  
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Date of implementation: January 1, 2002

Name of Site: Verona Well Field  
 Site City: Battle Creek  
 Site State: MI  
 Site Region: 5

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$225,000
Expected duration	yrs	30.0 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$3,458,801</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	6	0.0%	5 to 9 wells
Pumping rate	gpm	250	0.0%	100 to 500 gpm
Down time per year	wks	2	2.5%	2.00 - 3.99 wks
# of above-ground water treatment processes	#	2	0.0%	2 processes
GW monitoring (number wells * events-per-yr)	#	10	-2.5%	<25
Expected system duration	yrs	30.0	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	B	3.0%	little difficulty for minor changes, moderate for major changes
		Summation (%) ->	25.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>25.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$3,458,801</b>	0
<b>Estimated potential savings (%):</b>	<b>- 25.5%</b>	
<b>Subtotal</b>	<b>\$881,994</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$856,994</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**



15

RPM First Name: Russell  
 RPM Last Name: Hart  
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Date of implementation: January 1, 2002

Name of Site: Wash King Laundry  
 Site City: Pleasant Plains Township  
 Site State: MI  
 Site Region: 5

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$75,000
Expected duration	yrs	19.3 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$913,889</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	5	0.0%	5 to 9 wells
Pumping rate	gpm	250	0.0%	100 to 500 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	2	0.0%	2 processes
GW monitoring (number wells * events-per-yr)	#	46	0.0%	25.00 to 49.99
Expected system duration	yrs	19.3	-2.5%	10.00 - 19.99 yrs
Political/Social factors (minor changes)	A-F	B	3.0%	little difficulty for minor changes, moderate for major changes
		Summation (%) ->	23.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>23.0%</b>	(must be between 5% and 40%)

### Summary

Baseline present value:	\$913,889	0
Estimated potential savings (%):	- 23.0%	
Subtotal	<u>\$210,195</u>	
Estimated RSE cost (Tier 3):	- \$25,000	
	<u>\$185,195</u>	<----- Estimated potential savings (\$)

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

## **REGION 6 SCREENING CALCULATIONS**

1  
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**RPM Last Name:** Bennett  
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**RPM email:** bennett.stacey@epa.gov  
**Date of implementation:** January 1, 2002

**Name of Site:** American Creosote Works  
**Site City:** Winnfield  
**Site State:** LA  
**Site Region:** 6

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$360,000
Expected duration	yrs	25.1 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$5,084,310</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	18	2.5%	10 or more wells
Pumping rate	gpm	5.0	-5.0%	<10 gpm
Down time per year	wks	1	0.0%	<2 wks
# of above-ground water treatment processes	#	3	2.5%	3 processes
GW monitoring (number wells * events-per-yr)	#	72	2.5%	50.00 to 74.99
Expected system duration	yrs	25.1	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	C	2.0%	little difficulty for minor changes, severe for major changes
		<i>Summation (%) -&gt;</i>	22.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>22.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$5,084,310</b>	
<b>Estimated potential savings (%):</b>	<b>- 22.0%</b>	
<b>Subtotal</b>	<b>\$1,118,548</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$1,093,548</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

2  
**RPM First Name:** Katrina  
**RPM Last Name:** Coltrain  
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**Date of implementation:** January 1, 2002

**Name of Site:** Bayou Bonfouca  
**Site City:** Slidell  
**Site State:** LA  
**Site Region:** 6

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$402,000
Expected duration	yrs	19.5 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$4,936,430</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	44	2.5%	10 or more wells
Pumping rate	gpm	22.5	-2.5%	10 to 99.99 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	3	2.5%	3 processes
GW monitoring (number wells * events-per-yr)	#	132	5.0%	75 or more
Expected system duration	yrs	19.5	-2.5%	10.00 - 19.99 yrs
Political/Social factors (minor changes)	A-F	B	3.0%	little difficulty for minor changes, moderate for major changes
		<i>Summation (%) -&gt;</i>	25.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>25.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$4,936,430</b>	
<b>Estimated potential savings (%):</b>	<b>- 25.5%</b>	
<b>Subtotal</b>	<b>\$1,258,790</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$1,233,790</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

3

**RPM First Name:** Petra  
**RPM Last Name:** Sanchez  
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**RPM email:** sanchez.petra@epa.gov

**Date of implementation:** January 1, 2002

**Name of Site:** Cimarron Mining  
**Site City:** Carizozo  
**Site State:** NM  
**Site Region:** 6

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$1,000,000
Expected duration	yrs	30.0 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$15,372,451</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	B	5.0%	Performance evaluated and found insufficient
Number of pumping wells	#	3	-2.5%	3 to 4 wells
Pumping rate	gpm	1.0	-5.0%	<10 gpm
Down time per year	wks	4	5.0%	4 wks or more
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	12	-2.5%	<25
Expected system duration	yrs	30.0	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	E	-2.5%	moderate difficulty for minor changes, severe for major changes
		<i>Summation (%) -&gt;</i>	15.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>15.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$15,372,451</b>	
<b>Estimated potential savings (%):</b>	<b>- 15.0%</b>	
<b>Subtotal</b>	<b>\$2,305,868</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$2,280,868</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

4  
**RPM First Name:** Vincent  
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**Date of implementation:** January 1, 2002

**Name of Site:** City of Perryton Well #2  
**Site City:** Perryton  
**Site State:** TX  
**Site Region:** 6

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$37,000
Expected duration	yrs	21.6 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$481,977</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	1	-5.0%	1 to 2 wells
Pumping rate	gpm	150.0	0.0%	100 to 500 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	20	-2.5%	<25
Expected system duration	yrs	21.6	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	17.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>17.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$481,977</b>	
<b>Estimated potential savings (%):</b>	<b>- 17.5%</b>	
<b>Subtotal</b>	<b>\$84,346</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$59,346</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

5

**RPM First Name:** Ruben  
**RPM Last Name:** Moya  
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**Date of implementation:** January 1, 2002

**Name of Site:** Geneva Industries  
**Site City:** Houston  
**Site State:** TX  
**Site Region:** 6

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$240,000
Expected duration	yrs	2.0 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$446,259</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	13	2.5%	10 or more wells
Pumping rate	gpm	5.0	-5.0%	<10 gpm
Down time per year	wks	52	5.0%	4 wks or more
# of above-ground water treatment processes	#	2	0.0%	2 processes
GW monitoring (number wells * events-per-yr)	#	26	0.0%	25.00 to 49.99
Expected system duration	yrs	2.0	-15.0%	2.00 - 4.99yrs
Political/Social factors (minor changes)	A-F	B	3.0%	little difficulty for minor changes, moderate for major changes
		<i>Summation (%) -&gt;</i>	8.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>8.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$446,259</b>	
<b>Estimated potential savings (%):</b>	<b>- 8.0%</b>	
<b>Subtotal</b>	<b>\$35,701</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$10,701</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

6  
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**Date of implementation:** January 1, 2002

**Name of Site:** Midland Products  
**Site City:** Ola  
**Site State:** AR  
**Site Region:** 6

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$180,000
Expected duration	yrs	30.0 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$2,767,041</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	8	0.0%	5 to 9 wells
Pumping rate	gpm	3.0	-5.0%	<10 gpm
Down time per year	wks	1	0.0%	<2 wks
# of above-ground water treatment processes	#	3	2.5%	3 processes
GW monitoring (number wells * events-per-yr)	#	40	0.0%	25.00 to 49.99
Expected system duration	yrs	30.0	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	20.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>20.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$2,767,041</b>	
<b>Estimated potential savings (%):</b>	<b>- 20.0%</b>	
<b>Subtotal</b>	<b>\$553,408</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$528,408</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**



7

**RPM First Name:** Camille  
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**Date of implementation:** January 1, 2002

**Name of Site:** North Cavalcade Superfund Site  
**Site City:** Houston  
**Site State:** TX  
**Site Region:** 6

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$0
Expected duration	yrs	8.9 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$0</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	19	2.5%	10 or more wells
Pumping rate	gpm	19.0	-2.5%	10 to 99.99 gpm
Down time per year	wks	52	5.0%	4 wks or more
# of above-ground water treatment processes	#	3	2.5%	3 processes
GW monitoring (number wells * events-per-yr)	#	0	-2.5%	<25
Expected system duration	yrs	8.9	-5.0%	5.00 - 9.99 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	27.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>27.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$0</b>	
<b>Estimated potential savings (%):</b>	<b>- 27.5%</b>	
<b>Subtotal</b>	<b>\$0</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>- \$25,000</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

8  
**RPM First Name:** Ernest  
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**Date of implementation:** January 1, 2002

**Name of Site:** Odessa Chromium #1  
**Site City:** Odessa  
**Site State:** TX  
**Site Region:** 6

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$500,000
Expected duration	yrs	0.0 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$0</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	6	0.0%	5 to 9 wells
Pumping rate	gpm	60.0	-2.5%	10 to 99.99 gpm
Down time per year	wks	15	5.0%	4 wks or more
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	14	-2.5%	<25
Expected system duration	yrs	0.0	-20.0%	<2 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	0.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>5.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$0</b>	
<b>Estimated potential savings (%):</b>	<b>- 5.0%</b>	
<b>Subtotal</b>	<b>\$0</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>-\$25,000</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

9

**RPM First Name:** Vincent  
**RPM Last Name:** Malott  
**RPM phone:** 214-665-8313  
**RPM fax:** 214-665-6660  
**RPM email:** malott.vincent@epa.gov

**Date of implementation:** January 1, 2002

**Name of Site:** Sprague Road Ground Water Plume  
**Site City:** Odessa  
**Site State:** TX  
**Site Region:** 6

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$1,200,000
Expected duration	yrs	26.7 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$17,472,059</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	22	2.5%	10 or more wells
Pumping rate	gpm	200.0	0.0%	100 to 500 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	200	5.0%	75 or more
Expected system duration	yrs	26.7	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	32.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>32.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$17,472,059</b>	
<b>Estimated potential savings (%):</b>	<b>- 32.5%</b>	
<b>Subtotal</b>	<b>\$5,678,419</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$5,653,419</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

## **REGION 7 SCREENING CALCULATIONS**

1  
**RPM First Name:** Bob  
**RPM Last Name:** Stewart  
**RPM phone:** 913-551-7654  
**RPM fax:** 913-551-9654  
**RPM email:** stewart.robert@epa.gov  
**Date of implementation:** January 1, 2002

**Name of Site:** Ace Services  
**Site City:** Colby  
**Site State:** KS  
**Site Region:** 7

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$500,000
Expected duration	yrs	13.7 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$4,868,337</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	12	2.5%	10 or more wells
Pumping rate	gpm	800	2.5%	>500 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	124	5.0%	75 or more
Expected system duration	yrs	13.7	-2.5%	10.00 - 19.99 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	32.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>32.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$4,868,337</b>	
<b>Estimated potential savings (%):</b>	<b>- 32.5%</b>	
<b>Subtotal</b>	<b>\$1,582,210</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$1,557,210</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

2  
**RPM First Name:** Mary  
**RPM Last Name:** Peterson  
**RPM phone:** 913-551-7882  
**RPM fax:** 913-551-7063  
**RPM email:** peterson.mary@epa.gov  
**Date of implementation:** January 1, 2002

**Name of Site:** Cleburn Street Well Site/OU2  
**Site City:** Grand Island  
**Site State:** NE  
**Site Region:** 7

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$100,000
Expected duration	yrs	17.9 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$1,165,954</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	3	-2.5%	3 to 4 wells
Pumping rate	gpm	90	-2.5%	10 to 99.99 gpm
Down time per year	wks	1	0.0%	<2 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	32	0.0%	25.00 to 49.99
Expected system duration	yrs	17.9	-2.5%	10.00 - 19.99 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	17.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>17.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$1,165,954</b>	
<b>Estimated potential savings (%):</b>	<b>- 17.5%</b>	
<b>Subtotal</b>	<b>\$204,042</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$179,042</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

3

**RPM First Name:** Steve  
**RPM Last Name:** Auchterlonie  
**RPM phone:** 913-551-7778  
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**Date of implementation:** January 1, 2002

**Name of Site:** Valley Park TCE Site - OU2  
**Site City:** Valley Park  
**Site State:** MO  
**Site Region:** 7

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$0
Expected duration	yrs	14.0 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$0</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	0	0.0%	no wells (e.g., drains, etc.)
Pumping rate	gpm	0	-5.0%	<10 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	0	-2.5%	<25
Expected system duration	yrs	14.0	-2.5%	10.00 - 19.99 yrs
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	15.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>15.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$0</b>	
<b>Estimated potential savings (%):</b>	<b>- 15.0%</b>	
<b>Subtotal</b>	<b>\$0</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>- \$25,000</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

## **REGION 9 SCREENING CALCULATIONS**



1  
**RPM First Name:** David  
**RPM Last Name:** Seter  
**RPM phone:** 415-744-2212  
**RPM fax:** 111-111-1111  
**RPM email:** seter.david@epa.gov  
**Date of implementation:** January 1, 2002

**Name of Site:** Modesto Superfund Site  
**Site City:** Modesto  
**Site State:** CA  
**Site Region:** 9

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$300,000
Expected duration	yrs	20.3 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$3,776,134</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	1	-5.0%	1 to 2 wells
Pumping rate	gpm	50	-2.5%	10 to 99.99 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	2	0.0%	2 processes
GW monitoring (number wells * events-per-yr)	#	40	0.0%	25.00 to 49.99
Expected system duration	yrs	20.3	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		Summation (%) ->	20.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>20.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$3,776,134</b>	
<b>Estimated potential savings (%):</b>	<b>- 20.0%</b>	
<b>Subtotal</b>	<b>\$755,227</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$730,227</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

2  
**RPM First Name:** Kim  
**RPM Last Name:** Hoang  
**RPM phone:** 415-744-2370  
**RPM fax:** 999-999-9999  
**RPM email:** hoang.kim@epa.gov  
**Date of implementation:** January 1, 2002

**Name of Site:** Muscoy  
**Site City:** San Bernadino  
**Site State:** CA  
**Site Region:** 9

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$1,100,000
Expected duration	yrs	22.8 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$14,754,617</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	5	0.0%	5 to 9 wells
Pumping rate	gpm	9000	2.5%	>500 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	60	2.5%	50.00 to 74.99
Expected system duration	yrs	22.8	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	C	2.0%	little difficulty for minor changes, severe for major changes
		<i>Summation (%) -&gt;</i>	27.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>27.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$14,754,617</b>
<b>Estimated potential savings (%):</b>	<b>- 27.0%</b>
<b>Subtotal</b>	<b>\$3,983,747</b>
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>
	<b>\$3,958,747 &lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

3

RPM First Name: Kim  
 RPM Last Name: Hoang  
 RPM phone: 415-744-2370  
 RPM fax: 999-999-9999  
 RPM email: hoang.kim@epa.gov

Date of implementation: January 1, 2002

Name of Site: Newmark  
 Site City: San Bernadino  
 Site State: CA  
 Site Region: 9

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$900,000
Expected duration	yrs	26.8 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$13,123,638</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	8	0.0%	5 to 9 wells
Pumping rate	gpm	12000	2.5%	>500 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	30	0.0%	25.00 to 49.99
Expected system duration	yrs	26.8	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	B	3.0%	little difficulty for minor changes, moderate for major changes
		Summation (%) ->	25.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>25.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$13,123,638</b>	
<b>Estimated potential savings (%):</b>	<b>- 25.5%</b>	
<b>Subtotal</b>	<b>\$3,346,528</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$3,321,528</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

4

RPM First Name: Michelle  
 RPM Last Name: Lau  
 RPM phone: 415-744-2227  
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 RPM email: lau.michelle@epa.gov

Date of implementation: January 1, 2002

Name of Site: Selma Treating Co.  
 Site City: Selma  
 Site State: CA  
 Site Region: 9

Cost Item	Units	Value	
Annual O&M cost	\$/yr	\$300,000	
Expected duration	yrs	6.8	<-max of 30 yrs
Discount rate	%	5.00%	
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$1,684,303</b>	

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	6	0.0%	5 to 9 wells
Pumping rate	gpm	150	0.0%	100 to 500 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	80	5.0%	75 or more
Expected system duration	yrs	6.8	-5.0%	5.00 - 9.99 yrs
Political/Social factors (minor changes)	A-F	C	2.0%	little difficulty for minor changes, severe for major changes
		Summation (%) ->	17.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>17.0%</b>	(must be between 5% and 40%)

### Summary

<b>Baseline present value:</b>	<b>\$1,684,303</b>	
<b>Estimated potential savings (%):</b>	<b>- 17.0%</b>	
<b>Subtotal</b>	<b>\$286,332</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$261,332</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

## **REGION 10 SCREENING CALCULATIONS**

1  
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**Date of implementation:** January 1, 2002

**Name of Site:** Boomsnub/Airco / Site-Wide Ground Water OU  
**Site City:** Hazel Dell  
**Site State:** WA  
**Site Region:** 10

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$1,000,000
Expected duration	yrs	28.8 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$15,085,551</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	22	2.5%	10 or more wells
Pumping rate	gpm	135	0.0%	100 to 500 gpm
Down time per year	wks	3	2.5%	2.00 - 3.99 wks
# of above-ground water treatment processes	#	3	2.5%	3 processes
GW monitoring (number wells * events-per-yr)	#	160	5.0%	75 or more
Expected system duration	yrs	28.8	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	E	-2.5%	moderate difficulty for minor changes, severe for major changes
		<i>Summation (%) -&gt;</i>	27.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>27.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$15,085,551</b>
<b>Estimated potential savings (%):</b>	<b>- 27.5%</b>
<b>Subtotal</b>	<b>\$4,148,527</b>
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>
	<b>\$4,123,527 &lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

2

**RPM First Name:** Carmella  
**RPM Last Name:** Grandinetti  
**RPM phone:** 206-553-8696  
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**Date of implementation:** January 1, 2002

**Name of Site:** Bunker Hill Superfund Site  
**Site City:** Kellogg  
**Site State:** ID  
**Site Region:** 10

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$0
Expected duration	yrs	30.0 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$0</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	A	2.5%	Performance not evaluated
Number of pumping wells	#	0	0.0%	no wells (e.g., drains, etc.)
Pumping rate	gpm	0	-5.0%	<10 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	232	5.0%	75 or more
Expected system duration	yrs	30.0	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	25.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>25.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$0</b>	
<b>Estimated potential savings (%):</b>	<b>- 25.0%</b>	
<b>Subtotal</b>	<b>\$0</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>- \$25,000</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

3

**RPM First Name:** Kevin  
**RPM Last Name:** Rochlin  
**RPM phone:** 206-553-2106  
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**Date of implementation:** January 1, 2002

**Name of Site:** Commencement Bay, South Tacoma Channel, Well 12A  
**Site City:** Tacoma  
**Site State:** WA  
**Site Region:** 10

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$300,000
Expected duration	yrs	9.0 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$2,133,380</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	B	5.0%	Performance evaluated and found insufficient
Number of pumping wells	#	5	0.0%	5 to 9 wells
Pumping rate	gpm	150	0.0%	100 to 500 gpm
Down time per year	wks	3	2.5%	2.00 - 3.99 wks
# of above-ground water treatment processes	#	1	-2.5%	0 or 1 processes
GW monitoring (number wells * events-per-yr)	#	40	0.0%	25.00 to 49.99
Expected system duration	yrs	9.0	-5.0%	5.00 - 9.99 yrs
Political/Social factors (minor changes)	A-F	B	3.0%	little difficulty for minor changes, moderate for major changes
		<i>Summation (%) -&gt;</i>	23.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>23.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$2,133,380</b>	
<b>Estimated potential savings (%):</b>	<b>- 23.0%</b>	
<b>Subtotal</b>	<b>\$490,677</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$465,677</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**



4

**RPM First Name:** Alan  
**RPM Last Name:** Goodman  
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**Date of implementation:** January 1, 2002

**Name of Site:** McCormick & Baxter Creosoting Co.  
**Site City:** Portland  
**Site State:** OR  
**Site Region:** 10

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$250,000
Expected duration	yrs	30.0 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$3,843,113</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	C	-2.5%	Performance evaluated and found sufficient
Number of pumping wells	#	6	0.0%	5 to 9 wells
Pumping rate	gpm	3	-5.0%	<10 gpm
Down time per year	wks	5	5.0%	4 wks or more
# of above-ground water treatment processes	#	4	5.0%	4 or more processes
GW monitoring (number wells * events-per-yr)	#	50	2.5%	50.00 to 74.99
Expected system duration	yrs	30.0	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	A	5.0%	little difficulty for minor changes or major changes
		<i>Summation (%) -&gt;</i>	30.0%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>30.0%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$3,843,113</b>	
<b>Estimated potential savings (%):</b>	<b>- 30.0%</b>	
<b>Subtotal</b>	<b>\$1,152,934</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$1,127,934</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**

5

**RPM First Name:** Hanh  
**RPM Last Name:** Gold  
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**Date of implementation:** January 1, 2002

**Name of Site:** Wyckoff/Eagle Harbor Superfund Site  
**Site City:** Bainbridge Island  
**Site State:** WA  
**Site Region:** 10

Cost Item	Units	Value
Annual O&M cost	\$/yr	\$500,000
Expected duration	yrs	30.0 <-max of 30 yrs
Discount rate	%	5.00%
<b>Baseline present value -&gt;</b>	<b>\$</b>	<b>\$7,686,226</b>

Optimization Factor	Units	Answer	Potential Savings (%)	Range in Lookup Table
Potential savings (initial estimate)	%		20.0%	
Performance evaluation?	A-C	B	5.0%	Performance evaluated and found insufficient
Number of pumping wells	#	8	0.0%	5 to 9 wells
Pumping rate	gpm	80	-2.5%	10 to 99.99 gpm
Down time per year	wks	0	0.0%	<2 wks
# of above-ground water treatment processes	#	3	2.5%	3 processes
GW monitoring (number wells * events-per-yr)	#	20	-2.5%	<25
Expected system duration	yrs	30.0	0.0%	20 yrs or more
Political/Social factors (minor changes)	A-F	B	3.0%	little difficulty for minor changes, moderate for major changes
		<i>Summation (%) -&gt;</i>	25.5%	
		<b>Estimated potential savings (%) -&gt;</b>	<b>25.5%</b>	(must be between 5% and 40%)

**Summary**

<b>Baseline present value:</b>	<b>\$7,686,226</b>	
<b>Estimated potential savings (%):</b>	<b>- 25.5%</b>	
<b>Subtotal</b>	<b>\$1,959,988</b>	
<b>Estimated RSE cost (Tier 3):</b>	<b>- \$25,000</b>	
	<b>\$1,934,988</b>	<b>&lt;----- Estimated potential savings (\$)</b>

**\*\*Note: Estimated potential savings do not include costs associated with implementing actual system modifications**