

## **Appendix A**

## **Pro Forma Projects**

### A.1 Pro Forma Pilot Saline Project

<b>MW Power Plant</b>	112
90% Capture (CO <sub>2</sub> metric tonnes/day)	2,419
Capacity Utilization	0.85
Metric tonnes per Year	750,557
Storage facility injection life in years	4
Metric tonnes for facility	3,002,227
Post injection monitoring period in years	varies
Success Rate for Finding Site	25%
<b>Injection Zone Depth, Pressure, and Temperature</b>	
Depth to Top of Injection Interval (ft)	7,900
Depth to Bottom of Injection Interval (ft)	8,500
Hydrostatic pressure (psi)	3,683
Temperature (°F) @ 1.5°F/100 ft	182.5
Hydrostatic pressure (Mpa)	25.4
Temperature (°C)	83.6
CO <sub>2</sub> density (kg/m <sup>3</sup> )	668.6
<b>Volumetrics and Capacity</b>	
Gross thickness (ft)	600
Net thickness (ft)	300
Porosity (%)	20%
Area (mi <sup>2</sup> )	0.9
Area (ft <sup>2</sup> )	26,427,794
Pore space volume (ft <sup>3</sup> )	1,585,667,625
Pore space volume (m <sup>3</sup> )	44,901,107
Metric tonnes capacity at 100% storage efficiency	30,022,272
Storage efficiency	10.0%
Effective metric tonnes capacity	3,002,227

	In AoR	Known to Require Remediation	Additional Wells w/o Good Cement Logs
<b>Old Wells in Area</b>			
Deep Artificial Penetrations (exclude any to be used as injectors)	0.95	0.09	0.14
Shallow Artificial Penetrations (Excluding Water Wells)	1.90	0.19	0.28
Water Wells Artificial Penetrations	1.90	0.19	0.28
Injectivity (Metric Tonnes per Day per Well)	200 <sup>1</sup>		
Injection Wells Required (total)	3		
Injection Wells New Drills	3		
Horizontal Laterals (ft/well)	0		
Hydraulic Fracture (lbs of proppant/well)	0		
Number of Old Wells Converted to Injection Wells	0		
Cost of Converted Wells as % of New	15%		
Tubing Size (inches)	6.0		

Number of Stratigraphic Tests (if required)	0
Depth of Stratigraphic Tests (ft) (Decreased from 9,350 - Pilot scale stratigraphic well will not be drilled separately, but core samples will be taken as injection borehole drilled and will slow down process.)	2,400
Cores per Stratigraphic Tests	6

Number of Monitoring Wells Above Injection Zone (if required)	1.0
Number of Monitoring Wells Into Injection Zone (if required)	1.0
Depth of Monitoring Wells Above Injection Zone (ft)	4,500
Depth of Monitoring Wells Into Injection Zone (ft)	8,350
Long-string Casing of Monitoring Wells Above Inj. Zone (diam. inches)	5.5
Long-string Casing of Monitoring Wells Into Inj. Zone (diam. inches)	5.5
Air Sampling Stations Eddy Covariance (if required)	0
Soil Gas Sampling Stations (if required)	1
Vadose Zone (above water table) Gas Sampling Stations (if required)	1
Phreatic Zone (below water table) Gas Sampling Stations (if required)	1
Passive seismic arrays (inside monitoring wells if required)	1

Deepest USDW (ft)	2,000
Second Containment System Depth to Top (ft)	5,800
Second Containment System Depth to Bottom (ft)	6,100
First Containment System Depth to Top (ft)	7,000
First Containment System Depth to Bottom (ft)	7,400

	Miles	Diameter (inches)
Distribution Pipeline 1	1.0	6
Distribution Pipeline 2	0.6	4
Total inch-miles	8.1	
Pump Horsepower	290.3	

## A.2 Pro Forma Large Saline Non-waivered Project

<b>MW Power Plant</b>	273
90% Capture (CO <sub>2</sub> metric tonnes/day)	5,940
Capacity Utilization	0.85
Metric tonnes per Year	1,842,885
Storage facility injection life in years	40
Metric tonnes for facility	73,715,400
Post injection monitoring period in years	varies
Success Rate for Finding Site	25%
<b>Injection Zone Depth, Pressure, and Temperature</b>	
Depth to Top of Injection Interval (ft)	7,900
Depth to Bottom of Injection Interval (ft)	8,500
Hydrostatic pressure (psi)	3,683
Temperature (°F) @ 1.5°F/100 ft	182.5
Hydrostatic pressure (Mpa)	25.4
Temperature (°C)	83.6
CO <sub>2</sub> density (kg/m <sup>3</sup> )	668.6
<b>Volumetrics and Capacity</b>	
Gross thickness (ft)	600
Net thickness (ft)	300
Porosity (%)	20%
Area (mi <sup>2</sup> )	23.3
Area (ft <sup>2</sup> )	648,896,722
Pore space volume (ft <sup>3</sup> )	38,933,803,297
Pore space volume (m <sup>3</sup> )	1,102,482,535
Metric tonnes capacity at 100% storage efficiency	737,154,000
Storage efficiency	10.0%
Effective metric tonnes capacity	73,715,400

	In AoR	Known to Require Remediation	Additional Wells w/o Good Cement Logs
<b>Old Wells in Area</b>			
Deep Artificial Penetrations (exclude any to be used as injectors)	23.3	2.33	3.49
Shallow Artificial Penetrations (Excluding Water Wells)	46.6	4.66	6.98
Water Wells Artificial Penetrations	46.6	4.66	6.98
Injectivity (Metric Tonnes per Day per Well)	200 <sup>1</sup>		
Injection Wells Required (total)	4		
Injection Wells New Drills	4		
Horizontal Laterals (ft/well)	0		
Hydraulic Fracture (lbs of proppant/well)	0		
Number of Old Wells Converted to Injection Wells	0		
Cost of Converted Wells as % of New	15%		
Tubing Size (inches)	6.0		

Number of Stratigraphic Tests (if required)	1
Depth of Stratigraphic Tests (ft)	9,350
Cores per Stratigraphic Tests	6

Number of Monitoring Wells Above Injection Zone (if required)	5.8
Number of Monitoring Wells Into Injection Zone (if required)	5.8
Depth of Monitoring Wells Above Injection Zone (ft)	4,500
Depth of Monitoring Wells Into Injection Zone (ft)	8,350
Long-string Casing of Monitoring Wells Above Inj. Zone (diam. inches)	5.5
Long-string Casing of Monitoring Wells Into Inj. Zone (diam. inches)	5.5
Air Sampling Stations Eddy Covariance (if required)	12
Soil Gas Sampling Stations (if required)	24
Vadose Zone (above water table) Gas Sampling Stations (if required)	23
Phreatic Zone (below water table) Gas Sampling Stations (if required)	23
Passive seismic arrays (inside monitoring wells if required)	5

Deepest USDW (ft)	2,000
Second Containment System Depth to Top (ft)	5,800
Second Containment System Depth to Bottom (ft)	6,100
First Containment System Depth to Top (ft)	7,000
First Containment System Depth to Bottom (ft)	7,400

	Miles	Diameter (inches)
Distribution Pipeline 1	4.8	6
Distribution Pipeline 2	4.8	4
Total inch-miles	48.2	
Pump Horsepower	712.8	

### A.3 Pro Forma Large Saline Waivered Project

<b>MW Power Plant</b>	275
90% Capture (CO <sub>2</sub> metric tonnes/day)	5,940
Capacity Utilization	0.85
Metric tonnes per Year	1,842,885
Storage facility injection life in years	40
Metric tonnes for facility	73,715,400
Post injection monitoring period in years	varies
Success Rate for Finding Site	25%
<b>Injection Zone Depth, Pressure, and Temperature</b>	
Depth to Top of Injection Interval (ft)	4,400
Depth to Bottom of Injection Interval (ft)	5,000
Hydrostatic pressure (psi)	2,167
Temperature (°F) @ 1.5°F/100 ft	130.0
Hydrostatic pressure (Mpa)	14.9
Temperature (°C)	54.4
CO <sub>2</sub> density (kg/m <sup>3</sup> )	653.2
<b>Volumetrics and Capacity</b>	
Gross thickness (ft)	600
Net thickness (ft)	300
Porosity (%)	20%
Area (mi <sup>2</sup> )	23.8
Area (ft <sup>2</sup> )	664,187,423
Pore space volume (ft <sup>3</sup> )	39,851,245,384
Pore space volume (m <sup>3</sup> )	1,128,461,602
Metric tonnes capacity at 100% storage efficiency	737,154,000
Storage efficiency	10.0%
Effective metric tonnes capacity	73,715,400

	In AoR	Known to Require Remediation	Additional Wells w/o Good Cement Logs
<b>Old Wells in Area</b>			
Deep Artificial Penetrations (exclude any to be used as injectors)	23.8	2.38	3.57
Shallow Artificial Penetrations (Excluding Water Wells)	47.6	4.76	7.15
Water Wells Artificial Penetrations	47.6	4.76	7.15
Injectivity (Metric Tonnes per Day per Well)	2001		
Injection Wells Required (total)	4		
Injection Wells New Drills	4		
Horizontal Laterals (ft/well)	0		
Hydraulic Fracture (lbs of proppant/well)	0		
Number of Old Wells Converted to Injection Wells	0		
Cost of Converted Wells as % of New	15%		
Tubing Size (inches)	6.0		

Number of Stratigraphic Tests (if required)	1
Depth of Stratigraphic Tests (ft)	5,500
Cores per Stratigraphic Tests	6

Number of Monitoring Wells Above Injection Zone (if required)	8.7
Number of Monitoring Wells Into Injection Zone (if required)	8.7
Depth of Monitoring Wells Above Injection Zone (ft)	4,750
Depth of Monitoring Wells Into Injection Zone (ft)	4,850
Long-string Casing of Monitoring Wells Above Inj. Zone (diam. inches)	5.5
Long-string Casing of Monitoring Wells Into Inj. Zone (diam. inches)	5.5
Air Sampling Stations Eddy Covariance (if required)	12
Soil Gas Sampling Stations (if required)	24
Vadose Zone (above water table) Gas Sampling Stations (if required)	24
Phreatic Zone (below water table) Gas Sampling Stations (if required)	24
Passive seismic arrays (inside monitoring wells if required)	5

Deepest USDW (ft)	6,000
Second Containment System Depth to Top (ft)	2,300
Second Containment System Depth to Bottom (ft)	2,600
First Containment System Depth to Top (ft)	3,500
First Containment System Depth to Bottom (ft)	3,900

	Miles	Diameter (inches)
Distribution Pipeline 1	4.9	6
Distribution Pipeline 2	4.9	4
Total inch-miles	48.8	
Pump Horsepower	712.8	

#### A.4 Pro Forma Enhanced Recovery Non-waivered Project

<b>MW Power Plant</b>	240
90% Capture (CO <sub>2</sub> metric tonnes/day)	5,184
Capacity Utilization	0.85
Metric tonnes per Year	1,608,336
Storage facility injection life in years (20 years of ER and 10 years of GS)	10
Metric tonnes for facility	16,083,360
Post injection monitoring period in years	varies
Success Rate for finding site	100%
<b>Injection Zone Depth, Pressure, and Temperature</b>	
Depth to Top of Injection Interval (ft)	5,700
Depth to Bottom of Injection Interval (ft)	5,800
Hydrostatic pressure (psi)	2,513
Temperature (°F) @ 1.5°F/100 ft	142.0
Hydrostatic pressure (Mpa)	17.3
Temperature (°C)	61.1
CO <sub>2</sub> density (kg/m <sup>3</sup> )	658.9
<b>Volumetrics and Capacity</b>	
Gross thickness (ft)	100
Net thickness (ft)	50
Porosity (%)	15%
Area (mi <sup>2</sup> )	8.4
Area (ft <sup>2</sup> )	232,803,493
Pore space volume (ft <sup>3</sup> )	1,746,026,200
Pore space volume (m <sup>3</sup> )	49,441,956
Metric tonnes capacity at 100% storage efficiency	32,574,981
Storage efficiency	49.4%
Effective metric tonnes capacity	16,083,360

	In AoR	Known to Require Remediation	Additional Wells w/o Good Cement Logs
<b>Old Wells in Area</b>			
Deep Artificial Penetrations (exclude any to be used as injectors)	134	13.36	20.04
Shallow Artificial Penetrations (Excluding Water Wells)	17	1.67	2.51
Water Wells Artificial Penetrations	17	1.67	2.51
Injectivity (Metric Tonnes per Day per Well)	334		
Injection Wells Required (total)	17		
Injection Wells New Drills	0		
Horizontal Laterals (ft/well)	0		
Hydraulic Fracture (lbs of proppant/well)	0		
Number of Old Wells Converted to Injection Wells	17		
Cost of Converted Wells as % of New	15%		
Tubing Size (inches)	4.0		

Number of Stratigraphic Tests (if required)	0
Depth of Stratigraphic Tests (ft) (Decreased from 6,380. ER stratigraphic well will not be drilled separately, but core samples will be taken as injection borehole drilled and will slow down process.)	2,400
Cores per Stratigraphic Tests	6

Number of Monitoring Wells Above Injection Zone (if required)	2.1
Number of Monitoring Wells Into Injection Zone (if required)	2.1
Depth of Monitoring Wells Above Injection Zone (ft)	3,400
Depth of Monitoring Wells Into Injection Zone (ft)	5,775
Long-string Casing of Monitoring Wells Above Inj. Zone (diam. inches)	5.5
Long-string Casing of Monitoring Wells Into Inj. Zone (diam. inches)	5.5
Air Sampling Stations Eddy Covariance (if required)	4
Soil Gas Sampling Stations (if required)	9
Vadose Zone (above water table) Gas Sampling Stations (if required)	8
Phreatic Zone (below water table) Gas Sampling Stations (if required)	8
Passive seismic arrays (inside monitoring wells if required)	2

Deepest USDW (ft)	2,000
Second Containment System Depth to Top (ft)	3,600
Second Containment System Depth to Bottom (ft)	3,900
First Containment System Depth to Top (ft)	4,800
First Containment System Depth to Bottom (ft)	5,200

	Miles	Diameter (inches)
Distribution Pipeline 1	2.9	6
Distribution Pipeline 2	10.5	4
Total inch-miles	59.4	
Pump Horsepower	622.1	

#### A.5 Pro Forma Enhanced Recovery Waivered Project

<b>MW Power Plant</b>	220
90% Capture (CO <sub>2</sub> metric tonnes/day)	4,752
Capacity Utilization	0.85
Metric tonnes per Year	1,474,308
Storage facility injection life in years (10 years of ER and 10 years of GS)	10
Metric tonnes for facility	14,743,080
Post injection monitoring period in years	varies
Success Rate for finding site	100%
<b>Injection Zone Depth, Pressure, and Temperature</b>	
Depth to Top of Injection Interval (ft)	3,312
Depth to Bottom of Injection Interval (ft)	3,412
Hydrostatic pressure (psi)	1,478
Temperature (°F) @ 1.5°F/100 ft	106.2
Hydrostatic pressure (Mpa)	10.2
Temperature (°C)	41.2
CO <sub>2</sub> density (kg/m <sup>3</sup> )	612.5
<b>Volumetrics and Capacity</b>	
Gross thickness (ft)	100
Net thickness (ft)	50
Porosity (%)	15%
Area (mi <sup>2</sup> )	8.2
Area (ft <sup>2</sup> )	229,537,094
Pore space volume (ft <sup>3</sup> )	1,721,528,203
Pore space volume (m <sup>3</sup> )	48,748,250
Metric tonnes capacity at 100% storage efficiency	29,860,399
Storage efficiency	49.4%
Effective metric tonnes capacity	14,743,080

	In AoR	Known to Require Remediation	Additional Wells w/o Good Cement Logs
<b>Old Wells in Area</b>			
Deep Artificial Penetrations (exclude any to be used as injectors)	132	13.17	19.76
Shallow Artificial Penetrations (Excluding Water Wells)	16	1.65	2.47
Water Wells Artificial Penetrations	16	1.65	2.47
Injectivity (Metric Tonnes per Day per Well)	334		
Injection Wells Required (total)	16		
Injection Wells New Drills	0		
Horizontal Laterals (ft/well)	0		
Hydraulic Fracture (lbs of proppant/well)	0		
Number of Old Wells Converted to Injection Wells	16		
Cost of Converted Wells as % of New	15%		
Tubing Size (inches)	4.0		

Number of Stratigraphic Tests (if required)	0
Depth of Stratigraphic Tests (ft) (Decreased from 6,380. ER stratigraphic well will not be drilled separately, but core samples will be taken as injection borehole drilled and will slow down process.)	2,400
Cores per Stratigraphic Tests	6

Number of Monitoring Wells Above Injection Zone (if required)	3.1
Number of Monitoring Wells Into Injection Zone (if required)	3.1
Depth of Monitoring Wells Above Injection Zone (ft)	3,206
Depth of Monitoring Wells Into Injection Zone (ft)	3,387
Long-string Casing of Monitoring Wells Above Inj. Zone (diam. inches)	5.5
Long-string Casing of Monitoring Wells Into Inj. Zone (diam. inches)	5.5
Air Sampling Stations Eddy Covariance (if required)	4
Soil Gas Sampling Stations (if required)	9
Vadose Zone (above water table) Gas Sampling Stations (if required)	8
Phreatic Zone (below water table) Gas Sampling Stations (if required)	8
Passive seismic arrays (inside monitoring wells if required)	2

Deepest USDW (ft)	4,000
Second Containment System Depth to Top (ft)	1,212
Second Containment System Depth to Bottom (ft)	1,512
First Containment System Depth to Top (ft)	2,412
First Containment System Depth to Bottom (ft)	2,812

	Miles	Diameter (inches)
Distribution Pipeline 1	2.9	6
Distribution Pipeline 2	10.0	4
Total inch-miles	57.4	
Pump Horsepower	570.2	

## **Appendix B**

## **Project Algorithms**

Regulatory Matrix Heading	Tracking Number	Compliance Activity	Periodicity of Cost Item	Cost Algorithm (\$2008)	Application Factors*					ER applicability assumption (relative to saline)	Schedule Code	Waiver Multiplier
					RA0	RA1	RA2	RA3	RA4			
Geologic Site Characterization	A-1	Develop maps and cross sections of local geologic structure.	Once (first year)	60 hours of geologist labor @ \$107.23 per hour = \$6,433.80 per site.	100%	25%	50%	100%	100%	0%	1	200%
Geologic Site Characterization	A-2	Conduct 3D seismic survey to identify faults and fractures in primary and secondary containment units.	Once (first year)	\$104,000 per square mile of AOR (plus a mile past the perimeter) for good resolution.	50%	25%	50%	75%	100%	25%	1	200%
Geologic Site Characterization	A-3	Obtain and analyze seismic (earthquake) history.	Once (first year)	60 hours of geologist labor @ \$107.23 per hour = \$6,433.80 per site.	75%	25%	50%	100%	100%	0%	1	200%
Geologic Site Characterization	A-4	Remote (aerial) survey of land, land uses, structures etc.	Once (first year)	\$3,100 per site. \$415 per square mile surveyed. Assume survey covers twice project's actual footprint.	75%	75%	75%	75%	75%	10%	1	200%
Geologic Site Characterization	A-5	Obtain data on area, thickness, capacity, porosity and permeability of receiving formations and confining systems.	Once (first year)	24 hours of geologist labor @ \$107.23 per hour = \$2,573.52 per site.	100%	100%	100%	100%	100%	50%	1	200%
Geologic Site Characterization	A-6	Obtain geomechanical information on fractures, stress, rock strength, in situ fluid pressures ( <b>from existing data and literature</b> ).	Once (first year)	120 hours of geologist labor @ \$107.23 per hour = \$12,867.60 per site.	50%	50%	50%	75%	100%	10%	1	200%
Geologic Site Characterization	A-7	Obtain geomechanical information on fractures, stress, rock strength, in situ fluid pressures ( <b>new cores and tests</b> ).	Once (first year)	\$78 per foot for stratigraphic test well. \$3,100 per core.	25%	25%	25%	50%	100%	100%	1	200%
Geologic Site Characterization	A-8	List names and depth of all potentially affected Underground Sources of Drinking Water (USDWs).	Once (first year)	24 hours of geologist labor @ \$107.23 per hour = \$2,573.52 per site.	100%	100%	100%	100%	100%	10%	1	200%
Geologic Site Characterization	A-9	Provide geochemical information and maps/cross section on subsurface aquifers.	Once (first year)	60 hours of geologist labor @ \$107.23 per hour = \$6,433.80 per site.	50%	25%	25%	100%	100%	50%	1	400%
Geologic Site Characterization	A-10	Provide information on water-rock-CO <sub>2</sub> geochemistry and mineral reactions.	Once (first year)	240 hours of geologist labor @ \$107.23 per hour = \$25,735.20 per site + \$10,300 lab fees = \$36,035 per site.	25%	25%	50%	50%	100%	100%	1	300%
Geologic Site Characterization	A-11	Develop list of penetrations into injection zone within AoR ( <b>from well history data bases</b> ).	Once (first year)	12 hours of geologist labor @ 107.23 per hour = \$1,286.76 per square mile.	100%	100%	100%	100%	100%	10%	1	200%
Geologic Site Characterization	A-12	Develop list of penetrations into containment systems within AoR ( <b>from well history data bases</b> ).	Once (first year)	12 hours of geologist labor @ 107.23 per hour = \$1,286.76 per square mile.	0%	0%	0%	100%	100%	10%	1	200%
Geologic Site Characterization	A-13	Develop list of water wells within AoR ( <b>from public data</b> ).	Once (first year)	36 hours of geologist labor @ 107.23 per hour = \$3,860.28 per square mile.	25%	25%	25%	25%	100%	10%	1	200%
Geologic Site Characterization	A-14	Prepare geologic characterization report demonstrating: suitability of receiving zone, storage capacity and injectivity, trapping mechanism free of nonsealing faults, competent confining system, etc.	Once (first year)	240 hours of geologist labor @ \$107.23 per hour = \$25,735.20 per site.	100%	100%	100%	100%	100%	100%	1	250%
Geologic Site Characterization	A-15	G&A	Annual	20% of annual costs.	100%	100%	100%	100%	100%	100%	2	100%
Monitoring	B-1	Develop geochemical baseline for injection zones and confining zone. Assumes 4 samples per injection well.	Once (first year)	\$207 per sample * 4 samples per injection well = \$828 per injection well.	25%	25%	50%	100%	100%	100%	1	150%
Monitoring	B-2	Develop baseline of surface air CO <sub>2</sub> flux for leakage monitoring.	Once (first year)	\$36,200 per station.	0%	0%	0%	0%	0%	0%	1	100%
Monitoring	B-3a	Conduct front-end engineering and design for monitoring wells stopping above the confining zone.	Once (first year)	\$20,700 per site. \$5,200 per shallow monitoring well.	25%	50%	50%	100%	100%	100%	1	100%

Regulatory Matrix Heading	Tracking Number	Compliance Activity	Periodicity of Cost Item	Cost Algorithm (\$2008)	Application Factors*					ER applicability assumption (relative to saline)	Schedule Code	Waiver Multiplier
					RA0	RA1	RA2	RA3	RA4			
Monitoring	B-3b	Conduct front-end engineering and design for monitoring wells drilling into the injection zone.	Once (first year)	\$5,200 per deep monitoring well.	0%	0%	0%	100%	100%	100%	1	100%
Monitoring	B-4a	Obtain rights-of-way for surface uses (monitoring wells stopping above confining zone).	Once (first year)	\$10,400 per monitoring well.	25%	50%	50%	100%	100%	100%	1	100%
Monitoring	B-4b	Obtain rights-of-way for surface uses (monitoring wells drilling into injection zone).	Once (first year)	\$10,400 per monitoring well.	0%	0%	0%	100%	100%	100%	1	100%
Monitoring	B-5	Obtain rights-of-way for surface uses (monitoring sites).	Once (first year)	\$5,200 per air monitoring station site (microseismic sensing uses a monitoring well).	0%	0%	0%	0%	0%	0%	1	100%
Monitoring	B-6	Check valve (Director discretion to require down-hole shut-off valve, but expected to be check valves in all but the most exceptional cases).	Once (first year)	\$500 per downhole check valve (one per injection well).	25%	25%	25%	25%	100%	100%	1	100%
Monitoring	B-7	Standard monitoring well stopping above the confining zone (used look up table). Standard monitoring wells for ER projects stop below the injection zone.	Once (first year)	Standard monitoring well stopping above the injection zone (used lookup table). Standard monitoring wells for ER projects stop below the injection zone.	25%	50%	50%	100%	100%	100%	1	100%
Monitoring	B-8	Standard monitoring well drilled into the injection zone (used look up table; applies to RA3-4 only).	Once (first year)	Standard monitoring well drilled into the injection zone (used lookup table); applies to RA 3-4 only.	0%	0%	0%	100%	100%	100%	1	100%
Monitoring	B-9a	Pressure, temperature, and resistivity gauges and related equipment for monitoring wells stopping above the injection zone (application factor reflects intensity).	Once (first year)	\$10,400 per well.	25%	50%	50%	100%	100%	100%	1	200%
Monitoring	B-9b	Pressure, temperature, and resistivity gauges and related equipment for monitoring wells drilling into the injection zone (application factor reflects intensity).	Once (first year)	\$10,400 per well.	0%	0%	0%	100%	100%	100%	1	100%
Monitoring	B-10a	Salinity, CO <sub>2</sub> , tracer, etc. monitoring equipment for wells stopping above the injection zone (portion of equipment may be at surface such as for periodic in situ sampling using U-tubes; application factor reflects intensity).	Once (first year)	\$10,400 per well.	25%	50%	50%	100%	100%	100%	1	200%
Monitoring	B-10b	Salinity, CO <sub>2</sub> , tracer, etc. monitoring equipment for wells drilling into the injection zone (portion of equipment may be at surface such as for periodic in situ sampling using U-tubes; application factor reflects intensity).	Once (first year)	\$10,400 per well.	0%	0%	0%	100%	100%	100%	1	100%
Monitoring	B-10c	ER only. U-tube for sensing oil movement away from bottom of formation. Applies to 1 of every 4 monitoring wells drilled into the injection zone.	Once (first year)	\$16 per foot depth + \$30,000 per well.	25%	50%	50%	100%	100%	100%	1	200%
Monitoring	B-11a	Develop plan and implement Eddy Covariance air monitoring.	Once (first year)	40 hours of geologist labor @ \$107.23 per hour = \$4,289.20 per site. \$75,000 per air sampling station.	0%	0%	0%	0%	0%	0%	1	100%

Regulatory Matrix Heading	Tracking Number	Compliance Activity	Periodicity of Cost Item	Cost Algorithm (\$2008)	Application Factors*					ER applicability assumption (relative to saline)	Schedule Code	Waiver Multiplier
					RA0	RA1	RA2	RA3	RA4			
Monitoring	B-11b	Develop plan and implement Digital Color Infrared Orthoimagery (CIR) or Hyperspectral Imaging to detect changes to vegetation. Costs are for planning and quality assurance (no construction costs).	Once (first year)	\$10,000 per square mile.	0%	0%	0%	0%	0%	100%	1	100%
Monitoring	B-11c	Develop plan and implement LIDAR airborne survey to detect surface leaks. Works best where vegetation is sparse. Costs are for planning and quality assurance (no construction costs).	Once (first year)	\$10,000 per square mile.	0%	0%	0%	0%	0%	100%	1	100%
Monitoring	B-11d	Develop plan and implement soil zone monitoring.	Once (first year)	40 hours of geologist labor @ \$107.23 per hour = \$4,289.20. Total cost = \$4,289.20 + \$6,000 = \$10,289.2 per site.	0%	0%	0%	0%	0%	100%	1	100%
Monitoring	B-11e	Develop plan and implement vadose zone monitoring wells to sample gas above water table.	Once (first year)	40 hours of geologist labor @ \$107.23 per hour = \$4,289.20. Total cost = \$4,289.20 + \$8,000 = \$12,289.2 per site.	0%	0%	0%	0%	0%	100%	1	100%
Monitoring	B-11f	Develop a monitoring and testing plan, an emergency response plan, a post-injection site care and site closure plan and implement monitoring wells for ground water quality and geochemistry.	Once (first year)	\$80,000 per site. 40 hours of geologist labor per site @ \$107.23 per hour = \$4,289.20 for RA0-2, 55 hours of geologist labor @ \$107.23 per hour = \$5,897.65 for RA3-4.	25%	25%	50%	100%	100%	100%	1	150%
Monitoring	B-12	Conduct periodic monitoring of groundwater quality and geochemistry.	Monthly	((\$200 per sample + 0.5 hours engineer labor @ \$110.62 per hour per sample) * 4 samples per monitoring well = \$1,021.24 per monitoring well per month,	25%	25%	50%	100%	100%	100%	4	150%
Monitoring	B-13	Surface microseismic detection equipment: geophone arrays in monitoring wells.	Once (first year)	\$52,000 per geophone array (1 per 5 square miles with a minimum of 1 per site).	0%	0%	0%	0%	25%	100%	1	100%
Monitoring	B-14a	Monitoring well O&M for wells stopping above the injection zone.	Annual	Annual O&M costs are \$25,900 per well + \$3.10 per foot depth.	25%	50%	50%	100%	100%	100%	2	100%
Monitoring	B-14b	Monitoring well O&M for wells drilling into the injection zone.	Annual	Annual O&M costs are \$25,900 per well + \$3.10 per foot depth.	0%	0%	0%	100%	100%	100%	2	100%
Monitoring	B-14c	ER only. U-tube O&M for 1 of 4 monitoring wells drilled into the injection zone.	Annual	\$10,000 per year base O&M costs plus monthly sampling. Cost of monthly sampling = 12 samples annually per well * (8 hours per sample of engineer labor @ \$110.62 per hour + \$200 (chromatograph cost) per sample) = \$13,019. Total cost = \$10,000 + \$13,019 = \$23,019 per site.	25%	50%	50%	100%	100%	100%	2	200%
Monitoring	B-15a	Annual cost of air and soil surveys: Eddy Covariance.	Annual	\$10,000 per air sampling station.	0%	0%	0%	0%	0%	0%	2	100%
Monitoring	B-15b	Annual cost of air and soil surveys: Digital Color Infrared Orthoimagery (CIR) or Hyperspectral Imaging to detect changes to vegetation.	Annual	Airborne survey costs of \$6,250 per square mile plus mobilization costs of \$5,000 per site.	0%	0%	0%	0%	0%	100%	2	100%
Monitoring	B-15c	Annual cost of air and soil surveys: LIDAR airborne survey to detect surface leaks. Works best where vegetation is sparse.	Annual	Airborne survey costs of \$6,250 per square mile plus mobilization costs of \$5,000 per site.	0%	0%	0%	0%	0%	100%	2	100%
Monitoring	B-15d	Annual cost of air and soil surveys: soil zone monitoring.	Annual	\$200 lab fee + \$100 to collect per sample = \$300 per sample.	0%	0%	0%	0%	0%	0%	2	100%

Regulatory Matrix Heading	Tracking Number	Compliance Activity	Periodicity of Cost Item	Cost Algorithm (\$2008)	Application Factors*					ER applicability assumption (relative to saline)	Schedule Code	Waiver Multiplier
					RA0	RA1	RA2	RA3	RA4			
Monitoring	B-15e	Annual cost of air and soil surveys: vadose zone monitoring wells to sample gas above water table.	Annual	\$200 lab fee + \$100 to collect per sample = \$300 per sample.	0%	0%	0%	0%	0%	0%	2	100%
Monitoring	B-15f	Annual cost of air and soil surveys: monitoring wells for gas samples from water table.	Annual	\$200 lab fee + \$1,000 to collect per sample = \$1,200 per sample.	0%	0%	0%	0%	0%	0%	2	100%
Monitoring	B-16	Annual cost of passive seismic equipment.	Annual	\$10,500 per geophone array.	0%	0%	0%	0%	25%	100%	2	100%
Monitoring	B-17	Periodic seismic surveys: 3D.	Every Five Years	\$104,000 per square mile of AOR (plus a mile past the perimeter) for good resolution.	0%	0%	25%	25%	50%	100%	3	100%
Monitoring	B-18	Complex modeling of fluid flows and migration (reservoir simulations) over 100 years (RA0-3) or 10,000 years (RA4). Includes AoR and corrective action reevaluation and updating well plugging and monitoring/testing plans and emergency response plan.	Every Five Years	180 hours of engineer labor @ \$110.62 per hour = \$19,911.60 per site. 64 hours of engineer labor @ \$110.62 per hour = \$7,079.68 per injection well for RA0-2; 70 hours of engineer labor @ \$110.62 per hour = \$7,743.40 per injection well for RA3; or 90 hours of engineer labor @ \$110.62 per hour = \$9,955.80 per injection well for RA4.	25%	25%	25%	100%	100%	100%	3	150%
Monitoring	B-19	Annual reports to regulators and recordkeeping for all data gathering activities.	Annual	20 hours per report of engineer labor @ \$110.62 per hour = \$1,659 per report. 24 hours annually of engineer labor @ \$110.62 per hour = \$2,654.88 for recordkeeping.	0%	100%	100%	0%	0%	100%	2	100%
Monitoring	B-20	Semi-Annual (RA3) or quarterly (RA0) reports to regulators and recordkeeping for all data gathering activities.	semi-annual (RA3) or quarterly (RA0)	15 hours per report of engineer labor @ \$110.62 per hour = \$1,659.30 per report. 36 hours of engineer labor @ \$110.62 per hour annually for recordkeeping = \$3,982.32 for RA3; or 18 hours annually of engineer labor @ \$110.62 per hour = \$1,991.16 for recordkeeping for RA0.	50%	0%	0%	100%	0%	100%	5	100%
Monitoring	B-21	Monthly reports to regulators and recordkeeping for all data gathering activities and recordkeeping.	Monthly	8 hours of engineer labor @ \$110.62 per hour = \$884.96 per report. 36 hours annually = \$3,982.32 for recordkeeping.	0%	0%	0%	0%	100%	100%	4	100%
Monitoring	B-22	G&A	Annual	20% of annual costs.	100%	100%	100%	100%	100%	100%	2	100%
Injection Well Construction	C-1	Conduct front-end engineering and design (general and injection wells), pre-op logging, sampling, and testing. Includes baseline pressure fall-off test.	Once (first year)	\$2,070 per injection well for the baseline pressure fall-off test. \$207,000 per site and \$41,400 per injection well for other front-end engineering and design.	100%	100%	100%	100%	100%	100%	1	100%
Injection Well Construction	C-2	Obtain rights-of-way for surface uses (equipment, injection wells). Pipeline rights-of-way are included in pipeline costs. Half of cost is legal fees for developer, other half is payment to landowner.	Once (first year)	\$20,700 per injection well.	100%	100%	100%	100%	100%	50%	1	100%
Injection Well Construction	C-3	Lease rights for subsurface (pore space) use. Additional injection fees are included under O&M costs.	Once (first year)	Upfront payment of \$52.00 per acre.	100%	100%	100%	100%	100%	75%	1	100%
Injection Well Construction	C-4	Land use, air emissions, water discharge permits.	Once (first year)	\$103,400 per site. \$20,700 per square mile.	100%	100%	100%	100%	100%	100%	1	100%

Regulatory Matrix Heading	Tracking Number	Compliance Activity	Periodicity of Cost Item	Cost Algorithm (\$2008)	Application Factors*					ER applicability assumption (relative to saline)	Schedule Code	Waiver Multiplier
					RA0	RA1	RA2	RA3	RA4			
Injection Well Construction	C-5	UIC permit filing, including preparation of attachments and required plans (see T&C Document for detail).	Once (first year)	\$10,400 per site. \$6,000 per injection well for the first 5 injection wells at a site; \$2000 per injection well for subsequent injection wells. 96 hours of engineering labor @ \$110.62 per hour = \$10,619.52 per site to read and understand the rule and train staff.	100%	100%	100%	100%	100%	100%	1	300%
Injection Well Construction	C-6	Standard injection well cost (from look up table).	Once (first year)	\$220 to \$290 per foot depth typically down to 9,000 feet.	100%	100%	100%	100%	100%	100%	1	100%
Injection Well Construction	C-7	Corrosion resistant tubing.	Once (first year)	Additional \$1.15 per foot length-inch diameter for glass reinforced epoxy (GRE) lining.	100%	25%	100%	100%	100%	100%	1	100%
Injection Well Construction	C-8	Corrosion resistant casing: low alloy for RA2 and RA3, high alloy for RA4.	Once (first year)	Additional \$1.81 per foot length-inch diameter for RA2 and RA3 (low alloy); or \$2.70 per foot length-inch diameter for RA4 (higher alloy).	0%	0%	100%	100%	100%	100%	1	100%
Injection Well Construction	C-9	Cement well from surface through base of lowermost USDW and throughout injection zone.	Once (first year)	\$1.20 per foot length-inch diameter.	25%	25%	25%	100%	100%	100%	1	100%
Injection Well Construction	C-10	Use CO <sub>2</sub> -resistant cement.	Once (first year)	Adds 25% to total cementing costs.	25%	25%	100%	100%	100%	100%	1	100%
Injection Well Construction	C-13	Injection pressure limited to 90% of fracture pressure of injection formation.	Once (first year)	Affects maximum flow of well, number of wells needed.	50%	50%	50%	100%	100%	100%	1	100%
Injection Well Construction	C-14	Pumps.	Once (first year)	\$1550 per horsepower of pump. Installation of electrical service adds \$20,700 per injection well.	100%	100%	100%	100%	100%	100%	1	100%
Injection Well Construction	C-15	Wellhead and Control Equipment.	Once (first year)	Cost per well is \$520*(maximum metric tonnes per day injected per injection well) <sup>0.6</sup> .	100%	100%	100%	100%	100%	100%	1	100%
Injection Well Construction	C-16	All elements of pipeline costs.	Once (first year)	\$83,000 per mile length-inch diameter.	100%	100%	100%	100%	100%	100%	1	100%
Injection Well Construction	C-17	G&A	Annual	20% of annual costs.	100%	100%	100%	100%	100%	100%	2	100%
AoR Study & Corrective Action	D-1	Simple fluid flow calculations to predict CO <sub>2</sub> fluid flow.	Once (first year)	36 hours of engineer labor @ \$110.62 per hour = \$3,982.32 per site. 12 hours of engineer labor @ \$110.62= \$1,327.44 per injection well.	0%	50%	50%	0%	0%	100%	1	100%
AoR Study & Corrective Action	D-2	Complex modeling of CO <sub>2</sub> fluid flows and migration (reservoir simulations) over <b>100 years</b> , and prepare AOR/Corrective Action plan.	Once (first year)	180 hours of engineer labor @ \$110.62 per hour = \$19,911.60 per site. 24 hours of engineer labor @ \$110.62 = \$2,654.88 per injection well for RA0-2. 32 hours of engineer labor @ \$110.62 = \$3,539.84 per injection well for RA3.	100%	50%	50%	100%	0%	100%	1	100%
AoR Study & Corrective Action	D-3	Complex modeling of CO <sub>2</sub> fluid flows and migration (reservoir simulations) over <b>10,000 years</b> , and prepare AOR/Corrective Action plan.	Once (first year)	180 hours of engineer labor @ \$110.62 per hour = \$19,911.60 per site. 44 hours of engineer labor @ \$110.62 = \$4,867.28 per injection well.	0%	0%	0%	0%	100%	100%	1	100%
AoR Study & Corrective Action	D-4	Aerial search for old wells (artificial penetrations). This includes helicopter magnetic survey and follow-up ground survey.	Once (first year)	Helicopter magnetic survey requires about 9 hours per square mile @\$1,240 per hour. Cost = \$5,200 for mobilization + 9*\$1240 per square mile + \$2,070 (follow-up ground surveys) per square mile.	25%	25%	25%	25%	100%	10%	1	100%

Regulatory Matrix Heading	Tracking Number	Compliance Activity	Periodicity of Cost Item	Cost Algorithm (\$2008)	Application Factors*					ER applicability assumption (relative to saline)	Schedule Code	Waiver Multiplier
					RA0	RA1	RA2	RA3	RA4			
AoR Study & Corrective Action	D-5	Evaluate integrity of construction and record of completion and/or plugging of existing wells that penetrate containment system.	Once (first year)	24 hours per site of geologist labor @ 107.23 per hour + 6 hours per well of engineer labor @ \$110.62 per hour = \$2,574 per site + \$664 per well.	100%	100%	100%	100%	100%	10%	1	100%
AoR Study & Corrective Action	D-6	Evaluate integrity of construction and record of completion and/or plugging of existing shallow wells that pose a threat to USDWs.	Once (first year)	6 hours per well of engineer labor @ \$110.62 per hour = \$663.72 per well.	0%	0%	0%	0%	100%	10%	1	100%
AoR Study & Corrective Action	D-7	Remediate old wells in AoR that pose a risk to USDWs. Use two cement plugs: one in producing formation and one for surface to bottom of USDWs, fill the remainder of the borehole with mud.	Once (first year)	\$31,200 for clean out, \$13,500 to replug and \$11,400 to log. Water well remediation costs \$20,700.	100%	100%	100%	100%	100%	100%	1	100%
AoR Study & Corrective Action	D-8	Remediate old wells in AoR that lack high quality cementing information. Use two cement plugs: one in producing formation and one for surface to bottom of USDWs, fill the remainder of the borehole with mud.	Once (first year)	\$31,200 for clean out, \$13,500 to replug and \$11,400 to log. Water well remediation costs \$20,700.	25%	25%	25%	50%	50%	100%	1	200%
AoR Study & Corrective Action	D-9	G&A	Annual	20% of annual operating costs.	100%	100%	100%	100%	100%	100%	2	100%
Well operation	E-1	Develop a corrosion monitoring and prevention program.	Once (first year)	24 hours of engineer labor @ \$110.62 per hour = \$2,654.88 per site.	25%	25%	50%	100%	100%	100%	1	100%
Well operation	E-2	Corrosion monitoring: analysis of injectate stream and measurement of corrosion of well material coupons.	Quarterly	6 hours of engineer labor @ \$110.62 per hour = \$663.72 per injection well. Sampling cost = \$25 per injection well + (\$300 per sample * 4 samples per injection well) = \$1,225. Total cost = \$663.72 + \$1,225 = \$1,888.72 per injection well. (Note, \$300 per sample = \$200 per sample for analysis costs + \$100 per sample for collection costs.)	25%	25%	50%	100%	100%	100%	6	100%
Well operation	E-3	Continuous measurement / monitoring equipment: injected volumes, pressure, flow rates and annulus pressure.	Once (first year)	\$15,500 per injection well.	100%	100%	100%	100%	100%	100%	1	100%
Well operation	E-4	Equipment to add tracers.	Once (first year)	\$10,400 per injection well.	0%	0%	25%	25%	50%	100%	1	100%
Well operation	E-5	Electricity cost for pumps and equipment.	Annual	\$0.066 per kWh.	100%	100%	100%	100%	100%	100%	2	100%
Well operation	E-6	Injection well O&M.	Annual	Annual O&M costs are \$77,500 per injection well + \$3.10 per foot depth.	100%	100%	100%	100%	100%	100%	2	100%
Well operation	E-7	Pay rent for land use and rights-of-way.	Annual	\$5.20 per acre.	100%	100%	100%	100%	100%	100%	2	100%
Well operation	E-8	Pore space use costs.	Annual	\$0.36 per metric tonne.	100%	100%	100%	100%	100%	100%	2	100%
Well operation	E-9	Property Taxes & Insurance.	Annual	\$0.03 per \$1 of Capital Expenditure (CAPEX).	100%	100%	100%	100%	100%	100%	2	100%
Well operation	E-10	Tracers in injected fluid.	Annual	\$0.05 per metric tonne of CO2 injected.	0%	0%	25%	25%	50%	100%	2	100%
Well operation	E-11	Contribution to Long-term Monitoring, Insurance, and Remediation Fund.	Annual	\$0.10 per metric tonne CO2 injected.	0%	0%	0%	0%	0%	0%	2	100%
Well operation	E-12	Repair and replace wells and equipment.	Annual	Assume 1% per year of initial well and equipment cost.	100%	100%	100%	100%	100%	100%	2	100%

Regulatory Matrix Heading	Tracking Number	Compliance Activity	Periodicity of Cost Item	Cost Algorithm (\$2008)	Application Factors*					ER applicability assumption (relative to saline)	Schedule Code	Waiver Multiplier
					RA0	RA1	RA2	RA3	RA4			
Well operation	E-13	General failure of containment at site: cost to remove and relocate the CO <sub>2</sub> .	Annual	To account for a 1% chance of failure, 1.5% of total capital costs (distributed over project injection life) would cover such a contingency.	100%	100%	95%	80%	75%	100%	2	100%
Well operation	E-14	G&A	Annual	20% of annual costs.	100%	100%	100%	100%	100%	100%	2	100%
Mechanical Integrity Tests	F-1	Internal Mechanical integrity pressure test.	Every Five Years	\$2,070 per test (one test per injection well).	100%	100%	100%	100%	0%	100%	3	100%
Mechanical Integrity Tests	F-2	Casing inspection log.	every 5 years (RA3) or annually (RA4). For waivered projects, annual for RA0 - RA4.	\$2,070 per test (one test per injection well) + \$4.15 per foot depth (required at Director's discretion).	0%	0%	0%	25%	100%	100%	3	100%
Mechanical Integrity Tests	F-3	Conduct a tracer survey of the bottom-hole cement using a CO <sub>2</sub> -soluble isotope.	biannual for RA0-2; annual for RA3	\$5,200 per test (one test per injection well).	25%	25%	25%	50%	0%	100%	2	150%
Mechanical Integrity Tests	F-4	Conduct a tracer survey of the bottom-hole cement using a CO <sub>2</sub> -soluble isotope.	Semi-annual	\$5,200 per test (one test per injection well).	0%	0%	0%	0%	50%	100%	5	150%
Mechanical Integrity Tests	F-5	External mechanical integrity tests to detect flow adjacent to well using temperature or noise log at least annually.	Annual	\$2,070 per test (one test per injection well) plus \$4.15 per foot depth.	0%	0%	0%	50%	0%	100%	2	150%
Mechanical Integrity Tests	F-6	External mechanical integrity tests to detect flow adjacent to well using temperature or noise log at least every 6 months.	Semi-annual	\$2,070 per test (one test per injection well) plus \$4.15 per foot depth.	0%	0%	0%	0%	50%	100%	5	150%
Mechanical Integrity Tests	F-7	Conduct pressure fall-off test.	Every Five Years	\$2,070 per test (one test per injection well).	50%	50%	50%	100%	0%	100%	3	150%
Mechanical Integrity Tests	F-8	Conduct pressure fall-off test.	Semi-annual	\$2,070 per test (one test per injection well).	0%	0%	0%	0%	100%	100%	5	100%
Mechanical Integrity Tests	F-9	G&A	Annual	20% of annual costs.	100%	100%	100%	100%	100%	100%	2	100%
Closure and Post-Injection Care	G-1	Flush wells with a buffer fluid before plugging.	Post-Injection, Once	\$1,000 per injection well + \$0.085 per foot depth.	25%	25%	50%	100%	100%	100%	8	100%
Closure and Post-Injection Care	G-2	Plug injection wells. Use two cement plugs: one in producing formation and one for surface to bottom of UDSWs, fill the remainder of the borehole with mud.	Post-Injection, Once	\$13,500 to plug and \$11,400 to log.	75%	75%	75%	100%	100%	100%	8	100%
Closure and Post-Injection Care	G-3	Perform a mechanical integrity test prior to plugging to evaluate integrity of casing and cement to remain in ground.	Post-Injection, Once	\$2,070 per injection well plus \$4.15 per foot depth.	25%	25%	50%	100%	100%	100%	8	100%
Closure and Post-Injection Care	G-4a	Plug monitoring wells stopping above injection zone. Use one cement plug from the surface to the bottom of UDSWs, fill the remainder of the borehole with mud.	Post Closure, Once	\$6,700 to plug and \$5,700 to log.	25%	50%	50%	100%	100%	100%	10	100%
Closure and Post-Injection Care	G-4b	Plug monitoring wells drilling into injection zone. Use one cement plug from the surface to the bottom of UDSWs, fill the remainder of the borehole with mud.	Post Closure, Once	\$6,700 to plug and \$5,700 to log.	0%	0%	0%	100%	100%	100%	10	100%
Closure and Post-Injection Care	G-5	Remove surface equipment and structures; restore vegetation (injection wells).	Post-Injection, Once	\$25,900 per injection well.	100%	100%	100%	100%	100%	100%	8	100%
Closure and Post-Injection Care	G-6a	Remove surface equipment and structures; restore vegetation (monitoring well stopping above injection zone).	Post Closure, Once	\$10,400 per monitoring well. \$5,200 for monitoring stations.	25%	50%	50%	100%	100%	100%	10	100%

Regulatory Matrix Heading	Tracking Number	Compliance Activity	Periodicity of Cost Item	Cost Algorithm (\$2008)	Application Factors*					ER applicability assumption (relative to saline)	Schedule Code	Waiver Multiplier
					RA0	RA1	RA2	RA3	RA4			
Closure and Post-Injection Care	G-6b	Remove surface equipment and structures; restore vegetation (monitoring wells drilling into injection zone).	Post Closure, Once	\$10,400 per monitoring well.	0%	0%	0%	100%	100%	100%	10	100%
Closure and Post-Injection Care	G-7	Document plugging and closure process (well plugging, post-injection plans, notification of intent to close, and post closure report).	Once (first year)	120 hours of engineer labor @ \$110.62 per hour = \$13,274.40 per site.	50%	50%	50%	100%	100%	100%	1	100%
Closure and Post-Injection Care	G-8a	Post-closure O&M for monitoring wells stopping above injection zone (continues until plume has stabilized).	Post-Injection, Annual	Annual O&M costs are \$25,900 per well + \$3.10 per foot depth.	25%	50%	50%	100%	100%	100%	9	100%
Closure and Post-Injection Care	G-8b	Post-closure O&M for monitoring wells drilling into injection zone (continues until plume has stabilized).	Post-Injection, Annual	Annual O&M costs are \$25,900 per well + \$3.10 per foot depth.	0%	0%	0%	100%	100%	100%	9	100%
Closure and Post-Injection Care	G-9	Post-injection air and soil surveys.	Post-Injection, Every Five Years	\$10,400 per station.	0%	0%	0%	25%	100%	100%	11	100%
Closure and Post-Injection Care	G-10	Post-injection seismic survey.	Post-Injection, Every Five Years	\$104,000 per square mile of AOR (plus a mile past the perimeter) for good resolution.	0%	0%	0%	25%	50%	100%	11	100%
Closure and Post-Injection Care	G-11	Periodic post-injection monitoring reports to regulators.	Post-Injection, Every Five Years	40 hours of engineer labor @ \$110.62 per hour = \$4,424.80 for site.	0%	0%	100%	100%	100%	100%	11	100%
Closure and Post-Injection Care	G-12	G&A	Once (first year)	20% of annual costs.	100%	100%	100%	100%	100%	100%	1	100%
Financial Responsibility	H-1	Performance bond or demonstrate financial ability (accounting for inflation) to close site.	Post-Injection, Once	8 hours of engineer labor @ \$110.62 per hour = \$884.96 per financial report.	100%	100%	100%	100%	100%	100%	8	100%
Financial Responsibility	H-2	Performance bond or demonstrate financial ability (accounting for inflation) for post-injection monitoring and remediation.	Once (first year)	4 hours of engineer labor @ \$110.62 per hour = \$442.48.	0%	0%	100%	100%	100%	100%	1	100%
Financial Responsibility	H-3	G&A	Annual	20% of annual costs.	100%	100%	100%	100%	100%	100%	2	100%
Permitting Authority	I-1a	Administration (Staff Training, Rule Implementation).	Once (first year)	State burden 56% of total; 12 hours of State labor @ \$49.44 per hour = \$593.28.	0%	100%	100%	100%	100%	100%	1	
Permitting Authority	I-1b	Federal Systems Updates.	Annual	Federal burden only; 4,160 hours annually, or 2 Full Time Employees (FTEs). Cost = 4,160 hours of Federal labor @ \$50.14 per hour = \$208,582.40.	100%	100%	100%	100%	100%	100%	2	
Permitting Authority	I-2a	Review information required in general UIC permit (Includes initial review of closure and post-closure plans).	Once (first year)	State burden 56% of total; 40 hours burden per project for associated wells' permit applications.	100%	100%	100%	100%	100%	100%	1	
Permitting Authority	I-2b	Permitting Authority: review waiver applications.	Once (first year)	State burden 56% of total; 80 hours burden per project (twice the review time as for a non-waived project).	0%	100%	100%	100%	0%	100%	1	

Regulatory Matrix Heading	Tracking Number	Compliance Activity	Periodicity of Cost Item	Cost Algorithm (\$2008)	Application Factors*					ER applicability assumption (relative to saline)	Schedule Code	Waiver Multiplier
					RA0	RA1	RA2	RA3	RA4			
Permitting Authority	I-2c	Federal level: review waiver applications for those originally reviewed by State/Tribe/Territory having primacy.	Once (first year)	Federal-only burden; applies to just those waiver applications reviewed initially by State/Tribe/Territory rather than federal permitting authority. Consists of 80 hours of Federal labor burden per project (twice the review time as for a non-waivered project). Cost = 80 hours of Federal labor @50.14 per hour = \$4,011.20.	0%	100%	100%	100%	0%	100%	1	
Permitting Authority	I-3	Review financial assurance of capacity to properly close, plug, and abandon well.	Once (first year)	State burden 56% of total; 4 hours burden per project.	100%	100%	100%	100%	100%	100%	1	
Permitting Authority	I-4	Review financial assurance of capacity to provide post-closure care.	Once (first year)	State burden 56% of total; 4 hours burden per project.	0%	0%	100%	100%	100%	100%	1	
Permitting Authority	I-5	Second review of proposed closure plan required by §146.92(b).	Once (first year)	State burden 56% of total; 4 hours burden per project incurred in year prior to closure.	100%	100%	100%	100%	100%	100%	1	
Permitting Authority	I-6	Second review of proposed post-closure care plan required by §146.93(a).	Once (first year)	State burden 56% of total; 4 hours burden per project incurred in year prior to closure.	0%	0%	100%	100%	100%	100%	1	
Permitting Authority	I-7	Review emergency response plan required by §146.94(a).	Once (first year)	State burden 56% of total; 4 hours burden per project.	100%	100%	100%	100%	100%	100%	1	
Permitting Authority	I-8	Review proposed remedial response plan required by §146.94(b).	Once (first year)	State burden 56% of total; 4 hours burden per project.	100%	100%	100%	100%	100%	100%	1	
Permitting Authority	I-9	Review information required in § 146.82(c) <sup>1</sup> prior to issuing permit.	Once (first year)	State burden 56% of total; 4 hours burden per project.	100%	100%	100%	100%	100%	100%	1	
Permitting Authority	I-10	Review information required under § 146.86(b)(1) to determine and specify casing and cementing requirements. <sup>2</sup>	Once (first year)	State burden 56% of total; 4 hours burden per project.	25%	25%	100%	100%	100%	100%	1	
Permitting Authority	I-11	Review information required under § 146.86(c)(2) to determine and specify tubing and packer requirements. <sup>3</sup>	Once (first year)	State burden 56% of total; 4 hours burden per project.	25%	25%	100%	100%	100%	100%	1	
Permitting Authority	I-12	Evaluate mechanical integrity based on monitoring tests conducted since the last such evaluation and other mechanical integrity data.	Once (first year)	State burden 56% of total; 4 hours burden incurred per project every 5th year throughout period of injection (assumes all wells' data for a project are reviewed together).	25%	25%	25%	75%	100%	100%	1	
Permitting Authority	I-13	Witness logging and testing.	Once (first year)	State burden 56% of total; 4 hours burden per project.	25%	25%	25%	75%	100%	100%	1	
Permitting Authority	I-14	Review construction procedures.	Once (first year)	State burden 56% of total; 4 hours burden per project.	100%	100%	100%	100%	100%	100%	1	
Permitting Authority	I-15	Review proposed injection procedure.	Once (first year)	State burden 56% of total; 4 hours burden per project.	100%	100%	100%	100%	100%	100%	1	
Permitting Authority	I-16	Review schematics of proposed wells.	Once (first year)	State burden 56% of total; 4 hours burden per project.	100%	100%	100%	100%	100%	100%	1	
Permitting Authority	I-17	Review contingency plans.	Once (first year)	State burden 56% of total; 4 hours burden per project.	100%	100%	100%	100%	100%	100%	1	
Permitting Authority	I-18	Review plans (including maps) for meeting monitoring requirements.	Once (first year)	State burden 56% of total; 4 hours burden per project.	100%	100%	100%	100%	100%	100%	1	
Permitting Authority	I-19	Review the corrective action proposed to be taken under §146.84 for wells within the area of review which penetrate the injection zone but are not properly completed or plugged.	Once (first year)	State burden 56% of total; 4 hours burden per project.	100%	100%	100%	100%	100%	100%	1	

Regulatory Matrix Heading	Tracking Number	Compliance Activity	Periodicity of Cost Item	Cost Algorithm (\$2008)	Application Factors*					ER applicability assumption (relative to saline)	Schedule Code	Waiver Multiplier
					RA0	RA1	RA2	RA3	RA4			
Permitting Authority	I-20	Review of the information described in § 146.82(c) prior to granting approval for plugging and abandonment of a well. <sup>1</sup>	Post-Injection, Once	State burden 56% of total; 4 hours burden per project incurred in closing year.	100%	100%	100%	100%	100%	100%	8	
Permitting Authority	I-21	Analyze the pressure decay and the transient pressures recorded by owner/operator pursuant to §146.90(e) and determine whether the injection activity has conformed with predicted values[§ 146.92(e)(1)]. <sup>5</sup>	Every Five Years	State burden 56% of total; 24 hours burden per project incurred every 5th year throughout period of injection.	50%	50%	50%	100%	100%	100%	3	
Permitting Authority	I-22	Review of each project's annual reports submitted by all operators of Class VI wells [§ 146.91] <sup>1</sup> and recordkeeping.	Annual	State burden 56% of total; RA1 and RA2 only. Includes 2 hours for review and 2 hours for recordkeeping one-time annual burden.	0%	100%	100%	0%	0%	100%	2	
Permitting Authority	I-23	Review of each project's semi-annual (RA3) or quarterly (RA0) reports submitted by all operators of Class VI wells [§ 146.91] <sup>2</sup> and recordkeeping.	Annual	State burden 56% of total; 3 hours review per project report = 6 hours for review for RA3; or 12 hours for RA0; 2 additional hours recordkeeping burden for RA3 or RA0.	50%	0%	0%	100%	0%	100%	2	
Permitting Authority	I-24	Review of each project's monthly reports submitted by all operators of Class VI wells [§ 146.91] <sup>3</sup> and recordkeeping.	Annual	State burden 56% of total; RA4 only. Includes 1 hour review per project report = 12 hours; 2 additional hours for recordkeeping.	0%	0%	0%	0%	100%	100%	2	
Permitting Authority	I-25	Review AoR modeling update (simple model).	Every Five Years	State burden 56% of total; assumes 50% of projects under RA1 and RA2 will perform simple modeling. Permitting authority will incur 2 hours for review.	0%	50%	50%	0%	0%	100%	3	
Permitting Authority	I-26	Review AoR modeling update (complex model).	Every Five Years	State burden 56% of total; assumes all projects under RA0, RA3, and RA4 and 50% of projects under RA1 and RA2 will perform complex modeling. Permitting authority will incur 4 hours for review.	100%	50%	50%	100%	100%	100%	3	
Permitting Authority	I-27	Prepare / Review primacy applications.	Once (first year)	Burden applies under RA1 - RA4. Assumes 90 hours for federal agency review per primacy application, and 1,040 hours of preparation time for a state to prepare an application.	0%	100%	100%	100%	100%	100%	1	

Notes:

\* The Application Factor is a percentage between 0% and 100% that represents the Agency's best estimate of the number of operators, or the extent to which all operators, would engage in a given compliance activity; it takes into account those aspects of the rule that allow for operator and Director discretion and general trends in the CO<sub>2</sub>GS industry in terms of methods or equipment used.

<sup>1</sup> Sub-section 146.82(c) includes the following information: All available logging and testing program data on the well; A demonstration of mechanical integrity pursuant to §146.89; the anticipated maximum injection pressure and flow rate; the results of the formation testing program; the actual injection procedure; the compatibility of the carbon dioxide stream with fluids in the injection zone and minerals in both the injection zone and the primary confining system and secondary containment system; the status of corrective action on deficient wells in the area of review.

<sup>2</sup> Sub-section 146.86(b)(1) requires review of the following information: Depth to the injection zone; injection pressure, external pressure, internal pressure and axial loading; hole size; size and grade of all casing strings (well thickness, diameter, nominal weight, length, joint specification and construction material); Corrosiveness of the carbon dioxide stream, formation fluids and temperature; Lithology of injection and confining zones; Type or grade of cement; and Quantity and chemical composition of the carbon dioxide stream.

<sup>3</sup> Sub-section 146.86(c)(3) requires review of the following information: depth of setting; characteristics of the carbon dioxide stream (chemical content, corrosiveness, temperature and density); injection pressure; annular pressure; rate, temperature, and volume of the carbon dioxide stream; Size of casing; and Tubing tensile, burst, and collapse strengths.

<sup>4</sup> Sub-section 146.92(b) requires the following information be submitted by the owner operator and reviewed by the permitting authority: The type and number of plugs to be used; The placement of each plug including the elevation of the top and bottom; The type and grade and quantity of cement to be used; and The method for placement of the plugs.

<sup>5</sup> Tests are performed every 5 years. It is assumed the state or agency will review the data in the ensuing periodic report, unless a problem is detected.

<sup>6</sup>Certain events require the owner or operator to notify the state within 24 hours. These are associated with triggers indicating potential endangerment to USDWs and for modeling purposes are included under B-20 and I-23.

Source: U.S. Environmental Protection Agency. 2010a. Geologic CO<sub>2</sub> Sequestration Technology and Cost Analysis, EPA 816-R-10-008.

## **Appendix C**

### **Summary of Rule Costs**

**C.1 Baseline Total Rule Costs by Rule Component (2008\$) - Period 1 (2011-2035) Unadjusted Values**

Year	Rule Component									<b>TOTAL</b>
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin	
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 208,599	\$ 208,599
2012	\$ 11,240,264	\$ 1,589,226	\$ 17,538,659	\$ 818,721	\$ 64,293	\$ -	\$ 6,810	\$ -	\$ 212,129	\$ 31,470,102
2013	\$ 11,240,264	\$ 1,749,193	\$ 17,538,659	\$ 818,721	\$ 2,312,264	\$ 5,335	\$ 6,810	\$ -	\$ 212,278	\$ 33,883,524
2014	\$ 22,480,527	\$ 3,498,386	\$ 35,077,319	\$ 1,637,442	\$ 4,624,528	\$ 5,335	\$ 13,620	\$ -	\$ 215,958	\$ 67,553,114
2015	\$ -	\$ 639,869	\$ -	\$ -	\$ 8,991,883	\$ 16,006	\$ -	\$ -	\$ 209,195	\$ 9,856,952
2016	\$ 22,480,527	\$ 3,818,320	\$ 35,077,319	\$ 1,637,442	\$ 9,120,469	\$ 5,335	\$ 13,620	\$ -	\$ 216,255	\$ 72,369,288
2017	\$ 61,741,596	\$ 9,297,428	\$ 109,926,071	\$ 4,244,443	\$ 13,922,483	\$ 39,419	\$ 49,980	\$ -	\$ 236,126	\$ 199,457,545
2018	\$ -	\$ 1,813,629	\$ -	\$ -	\$ 27,416,095	\$ 54,114	\$ -	\$ -	\$ 211,308	\$ 29,495,146
2019	\$ -	\$ 1,826,001	\$ -	\$ -	\$ 27,416,095	\$ 52,162	\$ -	\$ -	\$ 212,031	\$ 29,506,288
2020	\$ -	\$ 1,801,258	\$ -	\$ -	\$ 27,416,095	\$ 41,371	\$ -	\$ -	\$ 210,585	\$ 29,469,309
2021	\$ -	\$ 1,826,001	\$ -	\$ -	\$ 27,416,095	\$ 52,162	\$ -	\$ -	\$ 212,031	\$ 29,506,288
2023	\$ -	\$ 1,772,012	\$ -	\$ -	\$ 24,727,678	\$ 39,419	\$ 23,910	\$ -	\$ 210,960	\$ 26,773,979
2024	\$ -	\$ 1,784,383	\$ -	\$ -	\$ 24,727,678	\$ 57,497	\$ 23,910	\$ -	\$ 211,683	\$ 26,805,152
2025	\$ -	\$ 1,759,640	\$ -	\$ -	\$ 24,727,678	\$ 26,676	\$ 23,910	\$ -	\$ 210,237	\$ 26,748,141
2026	\$ -	\$ 1,784,383	\$ -	\$ -	\$ 24,727,678	\$ 57,497	\$ 23,910	\$ -	\$ 211,683	\$ 26,805,152
2027	\$ -	\$ 1,833,869	\$ -	\$ -	\$ 24,727,678	\$ 103,134	\$ 23,910	\$ -	\$ 214,575	\$ 26,903,167
2028	\$ -	\$ 1,772,012	\$ -	\$ -	\$ 24,727,678	\$ 44,754	\$ 23,910	\$ -	\$ 210,960	\$ 26,779,314
2029	\$ 413,939	\$ 2,079,916	\$ 11,348,254	\$ 1,317,457	\$ 24,998,710	\$ 52,162	\$ 30,720	\$ -	\$ 211,683	\$ 40,452,841
2030	\$ -	\$ 1,818,783	\$ -	\$ -	\$ 27,783,428	\$ 54,686	\$ 23,910	\$ -	\$ 210,386	\$ 29,891,193
2031	\$ 413,939	\$ 2,139,058	\$ 11,348,254	\$ 1,317,457	\$ 28,054,460	\$ 52,162	\$ 30,720	\$ -	\$ 211,832	\$ 43,567,882
2032	\$ 1,655,756	\$ 3,134,284	\$ 45,393,014	\$ 5,269,829	\$ 31,923,306	\$ 153,818	\$ 40,920	\$ -	\$ 214,873	\$ 87,785,800
2033	\$ 1,241,817	\$ 3,013,464	\$ 34,044,761	\$ 3,952,372	\$ 43,875,274	\$ 130,117	\$ 20,430	\$ -	\$ 211,853	\$ 86,490,088
2034	\$ 413,939	\$ 2,648,178	\$ 11,348,254	\$ 1,317,457	\$ 52,500,460	\$ 225,027	\$ 6,810	\$ -	\$ 213,746	\$ 68,673,871
2035	\$ 827,878	\$ 2,942,131	\$ 22,696,507	\$ 2,634,914	\$ 55,827,242	\$ 140,049	\$ 13,620	\$ -	\$ 211,725	\$ 85,294,066
<b>Total</b>	<b>\$ 134,150,446</b>	<b>\$ 58,175,294</b>	<b>\$ 351,337,069</b>	<b>\$ 24,966,255</b>	<b>\$ 586,756,927</b>	<b>\$ 1,516,706</b>	<b>\$ 816,602</b>	<b>\$ 2,124</b>	<b>\$ 5,328,061</b>	<b>\$ 1,163,049,484</b>

**C.2 Baseline Total Rule Costs by Rule Component (2008\$) - Period 1 (2011-2035) Present and Annualized Values Using a 3% Discount Rate**

Year	Rule Component										<b>TOTAL</b>
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin		
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 208,599	\$ 208,599
2012	\$ 10,912,877	\$ 1,542,938	\$ 17,027,825	\$ 794,875	\$ 62,420	\$ -	\$ 6,612	\$ -	\$ 205,951	\$ 30,553,497	
2013	\$ 10,595,026	\$ 1,648,782	\$ 16,531,869	\$ 771,723	\$ 2,179,530	\$ 5,029	\$ 6,419	\$ -	\$ 200,093	\$ 31,938,471	
2014	\$ 20,572,867	\$ 3,201,519	\$ 32,100,716	\$ 1,498,492	\$ 4,232,098	\$ 4,882	\$ 12,464	\$ -	\$ 197,632	\$ 61,820,669	
2015	\$ -	\$ 568,516	\$ -	\$ -	\$ 7,989,172	\$ 14,221	\$ -	\$ -	\$ 185,867	\$ 8,757,775	
2016	\$ 19,391,900	\$ 3,293,717	\$ 30,258,003	\$ 1,412,472	\$ 7,867,397	\$ 4,602	\$ 11,749	\$ -	\$ 186,544	\$ 62,426,384	
2017	\$ 51,707,615	\$ 7,786,449	\$ 92,061,354	\$ 3,554,654	\$ 11,659,860	\$ 33,013	\$ 41,857	\$ -	\$ 197,752	\$ 167,042,553	
2018	\$ -	\$ 1,474,647	\$ -	\$ -	\$ 22,291,794	\$ 44,000	\$ -	\$ -	\$ 171,813	\$ 23,982,253	
2019	\$ -	\$ 1,441,462	\$ -	\$ -	\$ 21,642,518	\$ 41,177	\$ -	\$ -	\$ 167,379	\$ 23,292,537	
2020	\$ -	\$ 1,380,514	\$ -	\$ -	\$ 21,012,154	\$ 31,708	\$ -	\$ -	\$ 161,396	\$ 22,585,771	
2021	\$ -	\$ 1,358,716	\$ -	\$ -	\$ 20,400,149	\$ 38,813	\$ -	\$ -	\$ 157,771	\$ 21,955,450	
2022	\$ -	\$ 1,324,826	\$ -	\$ -	\$ 17,863,801	\$ 78,360	\$ 299,929	\$ 1,534	\$ 155,589	\$ 19,724,039	
2023	\$ -	\$ 1,242,853	\$ -	\$ -	\$ 17,343,496	\$ 27,648	\$ 16,770	\$ -	\$ 147,963	\$ 18,778,730	
2024	\$ -	\$ 1,215,078	\$ -	\$ -	\$ 16,838,346	\$ 39,153	\$ 16,282	\$ -	\$ 144,146	\$ 18,253,004	
2025	\$ -	\$ 1,163,330	\$ -	\$ -	\$ 16,347,908	\$ 17,636	\$ 15,807	\$ -	\$ 138,991	\$ 17,683,673	
2026	\$ -	\$ 1,145,328	\$ -	\$ -	\$ 15,871,756	\$ 36,905	\$ 15,347	\$ -	\$ 135,871	\$ 17,205,207	
2027	\$ -	\$ 1,142,807	\$ -	\$ -	\$ 15,409,472	\$ 64,269	\$ 14,900	\$ -	\$ 133,716	\$ 16,765,164	
2028	\$ -	\$ 1,072,096	\$ -	\$ -	\$ 14,960,652	\$ 27,077	\$ 14,466	\$ -	\$ 127,634	\$ 16,201,925	
2029	\$ 243,146	\$ 1,221,731	\$ 6,665,903	\$ 773,867	\$ 14,684,108	\$ 30,640	\$ 18,045	\$ -	\$ 124,341	\$ 23,761,780	
2030	\$ -	\$ 1,037,226	\$ -	\$ -	\$ 15,844,501	\$ 31,187	\$ 13,636	\$ -	\$ 119,942	\$ 17,046,492	
2031	\$ 229,188	\$ 1,184,345	\$ 6,283,253	\$ 729,444	\$ 15,533,074	\$ 28,881	\$ 17,009	\$ -	\$ 117,250	\$ 24,122,443	
2032	\$ 890,051	\$ 1,684,832	\$ 24,400,982	\$ 2,832,793	\$ 17,160,350	\$ 82,685	\$ 21,997	\$ -	\$ 115,434	\$ 47,189,123	
2033	\$ 648,095	\$ 1,572,704	\$ 17,767,705	\$ 2,062,713	\$ 22,898,176	\$ 67,907	\$ 10,662	\$ -	\$ 110,358	\$ 45,138,322	
2034	\$ 209,740	\$ 1,341,810	\$ 5,750,066	\$ 667,545	\$ 26,601,550	\$ 114,020	\$ 3,451	\$ -	\$ 107,841	\$ 34,796,022	
2035	\$ 407,261	\$ 1,447,333	\$ 11,165,178	\$ 1,296,203	\$ 27,463,304	\$ 68,895	\$ 6,700	\$ -	\$ 103,831	\$ 41,958,705	
Total PV	\$ 115,807,766	\$ 41,493,559	\$ 260,012,852	\$ 16,394,780	\$ 374,157,586	\$ 932,706	\$ 564,100	\$ 1,534	\$ 3,823,703	\$ 813,188,588	
Annualized	\$ 6,650,593	\$ 2,382,887	\$ 14,931,985	\$ 941,517	\$ 21,487,074	\$ 53,563	\$ 32,395	\$ 88	\$ 219,587	\$ 46,699,689	

**C.3 Baseline Total Rule Costs by Rule Component (2008\$) - Period 1 (2011-2035) Present and Annualized Values Using a 7% Discount Rate**

Year	Rule Component									TOTAL
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin	
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 208,599	\$ 208,599
2012	\$ 10,504,919	\$ 1,485,258	\$ 16,391,270	\$ 765,160	\$ 60,087	\$ -	\$ 6,364	\$ -	\$ 198,308	\$ 29,411,367
2013	\$ 9,817,682	\$ 1,527,813	\$ 15,318,944	\$ 715,103	\$ 2,019,621	\$ 4,660	\$ 5,948	\$ -	\$ 185,525	\$ 29,595,295
2014	\$ 18,350,807	\$ 2,855,725	\$ 28,633,541	\$ 1,336,641	\$ 3,774,992	\$ 4,355	\$ 11,118	\$ -	\$ 176,607	\$ 55,143,785
2015	\$ -	\$ 488,153	\$ -	\$ -	\$ 6,859,865	\$ 12,211	\$ -	\$ -	\$ 159,627	\$ 7,519,855
2016	\$ 16,028,305	\$ 2,722,410	\$ 25,009,643	\$ 1,167,474	\$ 6,502,768	\$ 3,804	\$ 9,711	\$ -	\$ 154,694	\$ 51,598,809
2017	\$ 41,141,032	\$ 6,195,269	\$ 73,248,382	\$ 2,828,251	\$ 9,277,138	\$ 26,266	\$ 33,304	\$ -	\$ 159,423	\$ 132,909,066
2018	\$ -	\$ 1,129,437	\$ -	\$ -	\$ 17,073,366	\$ 33,700	\$ -	\$ -	\$ 131,820	\$ 18,368,323
2019	\$ -	\$ 1,062,749	\$ -	\$ -	\$ 15,956,417	\$ 30,359	\$ -	\$ -	\$ 123,719	\$ 17,173,243
2020	\$ -	\$ 979,765	\$ -	\$ -	\$ 14,912,539	\$ 22,503	\$ -	\$ -	\$ 114,740	\$ 16,029,547
2021	\$ -	\$ 928,246	\$ -	\$ -	\$ 13,936,952	\$ 26,516	\$ -	\$ -	\$ 108,144	\$ 14,999,859
2022	\$ -	\$ 871,258	\$ -	\$ -	\$ 11,747,942	\$ 51,533	\$ 197,245	\$ 1,009	\$ 103,062	\$ 12,972,049
2023	\$ -	\$ 786,794	\$ -	\$ -	\$ 10,979,385	\$ 17,502	\$ 10,616	\$ -	\$ 93,937	\$ 11,888,235
2024	\$ -	\$ 740,456	\$ -	\$ -	\$ 10,261,107	\$ 23,859	\$ 9,922	\$ -	\$ 88,203	\$ 11,123,548
2025	\$ -	\$ 682,419	\$ -	\$ -	\$ 9,589,820	\$ 10,345	\$ 9,273	\$ -	\$ 81,731	\$ 10,373,588
2026	\$ -	\$ 646,743	\$ -	\$ -	\$ 8,962,449	\$ 20,840	\$ 8,666	\$ -	\$ 77,105	\$ 9,715,801
2027	\$ -	\$ 621,195	\$ -	\$ -	\$ 8,376,120	\$ 34,935	\$ 8,099	\$ -	\$ 73,436	\$ 9,113,785
2028	\$ -	\$ 560,974	\$ -	\$ -	\$ 7,828,150	\$ 14,168	\$ 7,569	\$ -	\$ 67,085	\$ 8,477,946
2029	\$ 122,470	\$ 615,372	\$ 3,357,539	\$ 389,788	\$ 7,396,216	\$ 15,433	\$ 9,089	\$ -	\$ 63,027	\$ 11,968,933
2030	\$ -	\$ 502,909	\$ -	\$ -	\$ 7,682,349	\$ 15,121	\$ 6,611	\$ -	\$ 58,386	\$ 8,265,376
2031	\$ 106,970	\$ 552,773	\$ 2,932,604	\$ 340,456	\$ 7,249,806	\$ 13,480	\$ 7,939	\$ -	\$ 55,144	\$ 11,259,171
2032	\$ 399,887	\$ 756,971	\$ 10,963,007	\$ 1,272,733	\$ 7,709,896	\$ 37,149	\$ 9,883	\$ -	\$ 52,677	\$ 21,202,202
2033	\$ 280,294	\$ 680,179	\$ 7,684,351	\$ 892,102	\$ 9,903,227	\$ 29,369	\$ 4,611	\$ -	\$ 48,127	\$ 19,522,261
2034	\$ 87,319	\$ 558,625	\$ 2,393,879	\$ 277,913	\$ 11,074,808	\$ 47,469	\$ 1,437	\$ -	\$ 45,492	\$ 14,486,942
2035	\$ 163,213	\$ 580,031	\$ 4,474,540	\$ 519,464	\$ 11,006,152	\$ 27,610	\$ 2,685	\$ -	\$ 41,954	\$ 16,815,650
Total PV	\$ 97,002,898	\$ 28,531,522	\$ 190,407,700	\$ 10,505,085	\$ 220,141,172	\$ 523,187	\$ 360,090	\$ 1,009	\$ 2,670,571	\$ 550,143,235
Annualized	\$ 8,323,869	\$ 2,448,305	\$ 16,338,983	\$ 901,447	\$ 18,890,428	\$ 44,895	\$ 30,900	\$ 87	\$ 229,163	\$ 47,208,076

**C.4 Baseline Total Rule Costs by Rule Component (2008\$) - Period 2 (2036-2060) Unadjusted Values**

Year	Rule Component									<b>TOTAL</b>
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin	
2036	\$ 1,241,817	\$ 3,416,671	\$ 34,044,761	\$ 3,952,372	\$ 62,209,773	\$ 270,377	\$ 20,430	\$ -	\$ 214,192	\$ 105,370,393
2037	\$ 413,939	\$ 3,160,459	\$ 11,348,254	\$ 1,317,457	\$ 70,834,959	\$ 501,160	\$ 6,810	\$ -	\$ 219,701	\$ 87,802,738
2038	\$ -	\$ 2,826,232	\$ -	\$ -	\$ 73,619,677	\$ 388,623	\$ -	\$ -	\$ 215,511	\$ 77,050,043
2039	\$ -	\$ 2,802,624	\$ -	\$ -	\$ 73,619,677	\$ 341,873	\$ -	\$ -	\$ 215,511	\$ 76,979,685
2040	\$ -	\$ 2,718,738	\$ -	\$ -	\$ 70,563,927	\$ 299,048	\$ 936,997	\$ 908	\$ 214,256	\$ 74,733,875
2041	\$ -	\$ 2,815,440	\$ -	\$ -	\$ 70,563,927	\$ 450,188	\$ 39,026	\$ -	\$ 216,808	\$ 74,085,390
2042	\$ -	\$ 2,841,763	\$ -	\$ -	\$ 67,508,177	\$ 515,303	\$ 976,023	\$ 908	\$ 220,615	\$ 72,062,791
2043	\$ -	\$ 2,471,376	\$ -	\$ -	\$ 55,285,178	\$ 292,590	\$ 3,826,041	\$ 3,632	\$ 215,979	\$ 62,094,795
2044	\$ -	\$ 2,234,361	\$ -	\$ -	\$ 46,117,928	\$ 179,678	\$ 3,045,149	\$ 2,724	\$ 214,469	\$ 51,794,309
2045	\$ -	\$ 2,186,455	\$ -	\$ -	\$ 43,062,178	\$ 203,015	\$ 1,288,234	\$ 908	\$ 212,916	\$ 46,953,706
2046	\$ -	\$ 2,128,892	\$ -	\$ -	\$ 36,950,678	\$ 242,644	\$ 2,264,257	\$ 1,816	\$ 215,128	\$ 41,803,416
2048	\$ -	\$ 1,772,012	\$ -	\$ -	\$ 24,727,678	\$ 44,754	\$ 1,522,392	\$ 908	\$ 211,300	\$ 28,279,044
2049	\$ -	\$ 1,784,383	\$ -	\$ -	\$ 24,727,678	\$ 52,162	\$ 624,421	\$ -	\$ 211,683	\$ 27,400,327
2050	\$ -	\$ 1,759,640	\$ -	\$ -	\$ 24,727,678	\$ 32,011	\$ 609,813	\$ -	\$ 210,237	\$ 27,339,379
2051	\$ -	\$ 1,784,383	\$ -	\$ -	\$ 24,727,678	\$ 52,162	\$ 585,395	\$ -	\$ 211,683	\$ 27,361,301
2052	\$ -	\$ 1,833,869	\$ -	\$ -	\$ 24,727,678	\$ 108,469	\$ 570,786	\$ -	\$ 214,575	\$ 27,455,378
2053	\$ -	\$ 1,612,045	\$ -	\$ -	\$ 22,479,708	\$ 34,084	\$ 829,913	\$ 908	\$ 211,151	\$ 25,167,808
2054	\$ -	\$ 1,464,449	\$ -	\$ -	\$ 20,231,737	\$ 52,162	\$ 807,374	\$ 908	\$ 211,725	\$ 22,768,355
2055	\$ -	\$ 1,119,771	\$ -	\$ -	\$ 15,735,795	\$ 10,670	\$ 1,180,446	\$ 1,816	\$ 210,322	\$ 18,258,820
2056	\$ -	\$ 1,144,514	\$ -	\$ -	\$ 15,735,795	\$ 52,162	\$ 680,773	\$ -	\$ 211,087	\$ 17,824,332
2057	\$ -	\$ 861,694	\$ -	\$ -	\$ 11,239,854	\$ 63,715	\$ 1,272,067	\$ 1,816	\$ 213,639	\$ 13,652,785
2058	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ -	\$ 2,448,051	\$ 4,540	\$ 210,300	\$ 2,662,891
2059	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ -	\$ 1,308,537	\$ -	\$ 208,599	\$ 1,517,136
2060	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ -	\$ 1,308,537	\$ -	\$ 208,599	\$ 1,517,136
<b>Total</b>	<b>\$ 1,655,756</b>	<b>\$ 46,668,764</b>	<b>\$ 45,393,014</b>	<b>\$ 5,269,829</b>	<b>\$ 907,180,789</b>	<b>\$ 4,344,140</b>	<b>\$ 29,430,780</b>	<b>\$ 24,516</b>	<b>\$ 5,336,457</b>	<b>\$ 1,045,304,044</b>

**C.5 Baseline Total Rule Costs by Rule Component (2008\$) - Period 2 (2036-2060) Present and Annualized Values Using a 3% Discount Rate**

Year	Rule Component										<b>TOTAL</b>
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin		
2036	\$ 593,099	\$ 1,631,821	\$ 16,259,967	\$ 1,887,675	\$ 29,711,734	\$ 129,133	\$ 9,758	\$ -	\$ 102,299	\$ 50,325,486	
2037	\$ 191,941	\$ 1,465,488	\$ 5,262,125	\$ 610,898	\$ 32,845,797	\$ 232,385	\$ 3,158	\$ -	\$ 101,338	\$ 40,713,131	
2038	\$ -	\$ 1,272,339	\$ -	\$ -	\$ 33,142,773	\$ 174,954	\$ -	\$ -	\$ 96,614	\$ 34,686,680	
2039	\$ -	\$ 1,224,962	\$ -	\$ -	\$ 32,177,449	\$ 149,425	\$ -	\$ -	\$ 93,940	\$ 33,645,776	
2040	\$ -	\$ 1,153,687	\$ -	\$ -	\$ 29,943,546	\$ 126,900	\$ 397,611	\$ 385	\$ 90,636	\$ 31,712,765	
2041	\$ -	\$ 1,159,924	\$ -	\$ -	\$ 29,071,404	\$ 185,472	\$ 16,078	\$ -	\$ 88,846	\$ 30,521,723	
2042	\$ -	\$ 1,136,669	\$ -	\$ -	\$ 27,002,403	\$ 206,115	\$ 390,397	\$ 363	\$ 87,619	\$ 28,823,566	
2043	\$ -	\$ 959,727	\$ -	\$ -	\$ 21,469,282	\$ 113,623	\$ 1,485,793	\$ 1,410	\$ 83,442	\$ 24,113,278	
2044	\$ -	\$ 842,413	\$ -	\$ -	\$ 17,387,669	\$ 67,743	\$ 1,148,101	\$ 1,027	\$ 80,814	\$ 19,527,768	
2045	\$ -	\$ 800,341	\$ -	\$ -	\$ 15,762,691	\$ 74,312	\$ 471,551	\$ 332	\$ 77,909	\$ 17,187,137	
2046	\$ -	\$ 756,573	\$ -	\$ -	\$ 13,131,658	\$ 86,232	\$ 804,679	\$ 645	\$ 76,306	\$ 14,856,093	
2047	\$ -	\$ 665,565	\$ -	\$ -	\$ 9,586,184	\$ 54,270	\$ 1,131,467	\$ 940	\$ 74,783	\$ 11,513,208	
2048	\$ -	\$ 593,594	\$ -	\$ -	\$ 8,283,350	\$ 14,992	\$ 509,975	\$ 304	\$ 71,103	\$ 9,473,318	
2049	\$ -	\$ 580,328	\$ -	\$ -	\$ 8,042,088	\$ 16,964	\$ 203,078	\$ -	\$ 69,206	\$ 8,911,664	
2050	\$ -	\$ 555,613	\$ -	\$ -	\$ 7,807,852	\$ 10,108	\$ 192,551	\$ -	\$ 66,733	\$ 8,632,856	
2051	\$ -	\$ 547,015	\$ -	\$ -	\$ 7,580,439	\$ 15,991	\$ 179,457	\$ -	\$ 65,233	\$ 8,388,134	
2052	\$ -	\$ 545,811	\$ -	\$ -	\$ 7,359,649	\$ 32,283	\$ 169,882	\$ -	\$ 64,194	\$ 8,171,820	
2053	\$ -	\$ 465,815	\$ -	\$ -	\$ 6,495,719	\$ 9,849	\$ 239,811	\$ 262	\$ 61,335	\$ 7,272,791	
2054	\$ -	\$ 410,841	\$ -	\$ -	\$ 5,675,871	\$ 14,634	\$ 226,503	\$ 255	\$ 59,709	\$ 6,387,812	
2055	\$ -	\$ 304,994	\$ -	\$ -	\$ 4,285,987	\$ 2,906	\$ 321,520	\$ 495	\$ 57,588	\$ 4,973,490	
2056	\$ -	\$ 302,654	\$ -	\$ -	\$ 4,161,152	\$ 13,794	\$ 180,023	\$ -	\$ 56,113	\$ 4,713,735	
2057	\$ -	\$ 221,228	\$ -	\$ -	\$ 2,885,681	\$ 16,358	\$ 326,586	\$ 466	\$ 55,134	\$ 3,505,453	
2058	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ -	\$ 610,198	\$ 1,132	\$ 52,696	\$ 664,026	
2059	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ -	\$ 316,664	\$ -	\$ 50,749	\$ 367,414	
2060	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ -	\$ 307,441	\$ -	\$ 49,271	\$ 356,712	
<b>Total PV</b>	<b>\$ 785,040</b>	<b>\$ 17,597,399</b>	<b>\$ 21,522,093</b>	<b>\$ 2,498,573</b>	<b>\$ 353,810,377</b>	<b>\$ 1,748,443</b>	<b>\$ 9,642,284</b>	<b>\$ 8,017</b>	<b>\$ 1,833,610</b>	<b>\$ 409,445,836</b>	
<b>Annualized</b>	<b>\$ 45,083</b>	<b>\$ 1,010,581</b>	<b>\$ 1,235,968</b>	<b>\$ 143,488</b>	<b>\$ 20,318,577</b>	<b>\$ 100,409</b>	<b>\$ 553,736</b>	<b>\$ 460</b>	<b>\$ 105,300</b>	<b>\$ 23,513,603</b>	

**C.6 Baseline Total Rule Costs by Rule Component (2008\$) - Period 2 (2036-2060) Present and Annualized Values Using a 7% Discount Rate**

Year	Rule Component									TOTAL
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin	
2036	\$ 228,804	\$ 629,519	\$ 6,272,719	\$ 728,221	\$ 11,462,100	\$ 49,817	\$ 3,764	\$ -	\$ 39,465	\$ 19,414,408
2037	\$ 71,278	\$ 544,217	\$ 1,954,118	\$ 226,860	\$ 12,197,461	\$ 86,297	\$ 1,173	\$ -	\$ 38,602	\$ 15,120,006
2038	\$ -	\$ 454,827	\$ -	\$ -	\$ 11,847,642	\$ 62,541	\$ -	\$ -	\$ 34,984	\$ 12,399,994
2039	\$ -	\$ 421,521	\$ -	\$ -	\$ 11,072,562	\$ 51,419	\$ -	\$ -	\$ 32,804	\$ 11,578,306
2040	\$ -	\$ 382,153	\$ -	\$ -	\$ 9,918,664	\$ 42,035	\$ 131,707	\$ 128	\$ 30,322	\$ 10,505,009
2041	\$ -	\$ 369,856	\$ -	\$ -	\$ 9,269,780	\$ 59,140	\$ 5,127	\$ -	\$ 28,864	\$ 9,732,767
2042	\$ -	\$ 348,892	\$ -	\$ -	\$ 8,288,182	\$ 63,265	\$ 119,829	\$ 111	\$ 27,818	\$ 8,848,098
2043	\$ -	\$ 283,569	\$ -	\$ -	\$ 6,343,484	\$ 33,572	\$ 439,004	\$ 417	\$ 25,067	\$ 7,125,112
2044	\$ -	\$ 239,601	\$ -	\$ -	\$ 4,945,442	\$ 19,268	\$ 326,546	\$ 292	\$ 23,366	\$ 5,554,515
2045	\$ -	\$ 219,125	\$ -	\$ -	\$ 4,315,663	\$ 20,346	\$ 129,106	\$ 91	\$ 21,531	\$ 4,705,862
2046	\$ -	\$ 199,398	\$ -	\$ -	\$ 3,460,909	\$ 22,727	\$ 212,077	\$ 170	\$ 20,506	\$ 3,915,788
2047	\$ -	\$ 168,855	\$ -	\$ -	\$ 2,432,035	\$ 13,769	\$ 287,056	\$ 238	\$ 19,629	\$ 2,921,582
2048	\$ -	\$ 144,966	\$ -	\$ -	\$ 2,022,943	\$ 3,661	\$ 124,545	\$ 74	\$ 17,550	\$ 2,313,740
2049	\$ -	\$ 136,428	\$ -	\$ -	\$ 1,890,601	\$ 3,988	\$ 47,741	\$ -	\$ 16,524	\$ 2,095,282
2050	\$ -	\$ 125,735	\$ -	\$ -	\$ 1,766,916	\$ 2,287	\$ 43,574	\$ -	\$ 15,199	\$ 1,953,712
2051	\$ -	\$ 119,162	\$ -	\$ -	\$ 1,651,324	\$ 3,483	\$ 39,093	\$ -	\$ 14,463	\$ 1,827,525
2052	\$ -	\$ 114,455	\$ -	\$ -	\$ 1,543,293	\$ 6,770	\$ 35,624	\$ -	\$ 14,013	\$ 1,714,155
2053	\$ -	\$ 94,028	\$ -	\$ -	\$ 1,311,209	\$ 1,988	\$ 48,408	\$ 53	\$ 12,576	\$ 1,468,262
2054	\$ -	\$ 79,831	\$ -	\$ -	\$ 1,102,886	\$ 2,843	\$ 44,012	\$ 49	\$ 11,854	\$ 1,241,476
2055	\$ -	\$ 57,048	\$ -	\$ -	\$ 801,683	\$ 544	\$ 60,140	\$ 93	\$ 10,884	\$ 930,390
2056	\$ -	\$ 54,494	\$ -	\$ -	\$ 749,236	\$ 2,484	\$ 32,414	\$ -	\$ 10,289	\$ 848,917
2057	\$ -	\$ 38,344	\$ -	\$ -	\$ 500,158	\$ 2,835	\$ 56,605	\$ 81	\$ 9,980	\$ 608,003
2058	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ -	\$ 101,808	\$ 189	\$ 8,902	\$ 110,899
2059	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ -	\$ 50,859	\$ -	\$ 8,108	\$ 58,966
2060	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ -	\$ 47,531	\$ -	\$ 7,577	\$ 55,109
Total PV	\$ 300,082	\$ 5,226,025	\$ 8,226,837	\$ 955,081	\$ 108,894,172	\$ 555,079	\$ 2,387,742	\$ 1,986	\$ 500,878	\$ 127,047,883
Annualized	\$ 25,750	\$ 448,448	\$ 705,949	\$ 81,956	\$ 9,344,265	\$ 47,632	\$ 204,893	\$ 170	\$ 42,981	\$ 10,902,045

**C.7 Regulatory Alternative 1 Total Rule Costs by Rule Component (2008\$) - Period 1 (2011-2035) Unadjusted Values**

Year	Rule Component									TOTAL
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin	
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,017,362	\$ 2,017,362
2012	\$ 6,904,745	\$ 3,441,911	\$ 18,054,967	\$ 864,409	\$ 67,865	\$ -	\$ 7,188	\$ -	\$ 212,925	\$ 29,554,009
2013	\$ 6,904,745	\$ 3,776,567	\$ 18,054,967	\$ 864,409	\$ 2,488,485	\$ 5,780	\$ 7,188	\$ -	\$ 213,104	\$ 32,315,245
2014	\$ 13,809,490	\$ 7,553,135	\$ 36,109,934	\$ 1,728,817	\$ 4,976,969	\$ 5,780	\$ 14,377	\$ -	\$ 217,610	\$ 64,416,111
2015	\$ -	\$ 1,338,628	\$ -	\$ -	\$ 9,682,479	\$ 17,339	\$ -	\$ -	\$ 209,317	\$ 11,247,764
2016	\$ 13,809,490	\$ 8,222,449	\$ 36,109,934	\$ 1,728,817	\$ 9,818,209	\$ 5,780	\$ 14,377	\$ -	\$ 217,969	\$ 69,927,024
2017	\$ 37,764,263	\$ 19,936,182	\$ 112,190,899	\$ 4,448,986	\$ 14,976,236	\$ 42,468	\$ 51,872	\$ -	\$ 240,282	\$ 189,651,187
2018	\$ -	\$ 3,768,837	\$ -	\$ -	\$ 29,314,695	\$ 57,608	\$ -	\$ -	\$ 211,691	\$ 33,352,831
2019	\$ -	\$ 3,782,240	\$ -	\$ -	\$ 29,314,695	\$ 56,037	\$ -	\$ -	\$ 212,409	\$ 33,365,381
2020	\$ -	\$ 3,755,435	\$ -	\$ -	\$ 29,314,695	\$ 44,039	\$ -	\$ -	\$ 210,973	\$ 33,325,141
2021	\$ -	\$ 3,782,240	\$ -	\$ -	\$ 29,314,695	\$ 56,037	\$ -	\$ -	\$ 212,409	\$ 33,365,381
2023	\$ -	\$ 3,694,629	\$ -	\$ -	\$ 26,626,818	\$ 42,468	\$ 47,820	\$ -	\$ 211,293	\$ 30,623,028
2024	\$ -	\$ 3,708,032	\$ -	\$ -	\$ 26,626,818	\$ 61,817	\$ 47,820	\$ -	\$ 212,011	\$ 30,656,498
2025	\$ -	\$ 3,681,227	\$ -	\$ -	\$ 26,626,818	\$ 28,899	\$ 47,820	\$ -	\$ 210,575	\$ 30,595,339
2026	\$ -	\$ 3,708,032	\$ -	\$ -	\$ 26,626,818	\$ 61,817	\$ 47,820	\$ -	\$ 212,011	\$ 30,656,498
2027	\$ -	\$ 3,761,642	\$ -	\$ -	\$ 26,626,818	\$ 110,312	\$ 47,820	\$ -	\$ 214,885	\$ 30,761,477
2028	\$ -	\$ 3,694,629	\$ -	\$ -	\$ 26,626,818	\$ 48,248	\$ 47,820	\$ -	\$ 211,293	\$ 30,628,808
2029	\$ 283,032	\$ 4,330,683	\$ 11,534,654	\$ 1,387,215	\$ 26,912,024	\$ 56,037	\$ 55,008	\$ -	\$ 212,801	\$ 44,771,455
2030	\$ -	\$ 3,796,049	\$ -	\$ -	\$ 29,829,073	\$ 73,932	\$ 47,820	\$ -	\$ 210,754	\$ 33,957,629
2031	\$ 283,032	\$ 4,445,506	\$ 11,534,654	\$ 1,387,215	\$ 30,114,279	\$ 70,837	\$ 55,008	\$ -	\$ 212,981	\$ 48,103,513
2032	\$ 1,132,129	\$ 6,481,893	\$ 46,138,615	\$ 5,548,861	\$ 34,172,152	\$ 194,599	\$ 56,113	\$ -	\$ 218,404	\$ 93,942,766
2033	\$ 849,097	\$ 6,251,519	\$ 34,603,961	\$ 4,161,645	\$ 46,695,966	\$ 229,084	\$ 21,565	\$ -	\$ 214,740	\$ 93,027,578
2034	\$ 283,032	\$ 5,402,913	\$ 11,534,654	\$ 1,387,215	\$ 55,732,320	\$ 374,749	\$ 7,188	\$ -	\$ 215,136	\$ 74,937,206
2035	\$ 566,065	\$ 6,074,755	\$ 23,069,307	\$ 2,774,430	\$ 59,219,780	\$ 299,171	\$ 14,377	\$ -	\$ 213,950	\$ 92,231,836
<b>Total</b>	<b>\$ 82,589,121</b>	<b>\$ 122,150,774</b>	<b>\$ 358,936,544</b>	<b>\$ 26,282,020</b>	<b>\$ 628,332,347</b>	<b>\$ 2,058,928</b>	<b>\$ 1,078,083</b>	<b>\$ 2,124</b>	<b>\$ 7,162,565</b>	<b>\$ 1,228,592,506</b>

**C.8 Regulatory Alternative 1 Total Rule Costs by Rule Component (2008\$) - Period 1 (2011-2035) Present and Annualized Values Using a 3% Discount Rate**

Year	Rule Component										TOTAL
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin		
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,017,362	\$ 2,017,362
2012	\$ 6,703,636	\$ 3,341,661	\$ 17,529,094	\$ 839,232	\$ 65,888	\$ -	\$ 6,979	\$ -	\$ 206,266	\$ 28,692,755	
2013	\$ 6,508,384	\$ 3,559,777	\$ 17,018,538	\$ 814,788	\$ 2,345,635	\$ 5,448	\$ 6,776	\$ -	\$ 200,423	\$ 30,459,770	
2014	\$ 12,637,639	\$ 6,912,188	\$ 33,045,705	\$ 1,582,113	\$ 4,554,632	\$ 5,289	\$ 13,157	\$ -	\$ 198,274	\$ 58,948,997	
2015	\$ -	\$ 1,189,354	\$ -	\$ -	\$ 8,602,758	\$ 15,406	\$ -	\$ -	\$ 185,961	\$ 9,993,478	
2016	\$ 11,912,187	\$ 7,092,757	\$ 31,148,746	\$ 1,491,293	\$ 8,469,273	\$ 4,986	\$ 12,401	\$ -	\$ 187,195	\$ 60,318,838	
2017	\$ 31,626,976	\$ 16,696,238	\$ 93,958,111	\$ 3,725,956	\$ 12,542,362	\$ 35,566	\$ 43,442	\$ -	\$ 199,225	\$ 158,827,877	
2018	\$ -	\$ 3,064,409	\$ -	\$ -	\$ 23,835,530	\$ 46,840	\$ -	\$ -	\$ 172,073	\$ 27,118,853	
2019	\$ -	\$ 2,985,735	\$ -	\$ -	\$ 23,141,291	\$ 44,236	\$ -	\$ -	\$ 167,615	\$ 26,338,877	
2020	\$ -	\$ 2,878,228	\$ -	\$ -	\$ 22,467,273	\$ 33,752	\$ -	\$ -	\$ 161,658	\$ 25,540,911	
2021	\$ -	\$ 2,814,341	\$ -	\$ -	\$ 21,812,886	\$ 41,697	\$ -	\$ -	\$ 157,993	\$ 24,826,918	
2022	\$ -	\$ 2,717,490	\$ -	\$ -	\$ 19,235,780	\$ 83,867	\$ 317,202	\$ 1,534	\$ 155,707	\$ 22,511,580	
2023	\$ -	\$ 2,591,339	\$ -	\$ -	\$ 18,675,515	\$ 29,786	\$ 33,540	\$ -	\$ 148,153	\$ 21,478,332	
2024	\$ -	\$ 2,524,989	\$ -	\$ -	\$ 18,131,568	\$ 42,094	\$ 32,563	\$ -	\$ 144,315	\$ 20,875,529	
2025	\$ -	\$ 2,433,725	\$ -	\$ -	\$ 17,603,464	\$ 19,106	\$ 31,615	\$ -	\$ 139,184	\$ 20,227,093	
2026	\$ -	\$ 2,380,044	\$ -	\$ -	\$ 17,090,741	\$ 39,678	\$ 30,694	\$ -	\$ 136,031	\$ 19,677,188	
2027	\$ -	\$ 2,344,131	\$ -	\$ -	\$ 16,592,953	\$ 68,743	\$ 29,800	\$ -	\$ 133,818	\$ 19,169,444	
2028	\$ -	\$ 2,235,311	\$ -	\$ -	\$ 16,109,663	\$ 29,191	\$ 28,932	\$ -	\$ 127,798	\$ 18,530,895	
2029	\$ 166,252	\$ 2,543,820	\$ 6,775,393	\$ 814,843	\$ 15,807,978	\$ 32,916	\$ 32,312	\$ -	\$ 124,711	\$ 26,298,224	
2030	\$ -	\$ 2,164,834	\$ -	\$ -	\$ 17,011,104	\$ 42,163	\$ 27,271	\$ -	\$ 120,119	\$ 19,365,490	
2031	\$ 156,708	\$ 2,461,369	\$ 6,386,458	\$ 768,067	\$ 16,673,546	\$ 39,221	\$ 30,457	\$ -	\$ 117,608	\$ 26,633,434	
2032	\$ 608,575	\$ 3,484,337	\$ 24,801,779	\$ 2,982,786	\$ 18,369,215	\$ 104,607	\$ 30,164	\$ -	\$ 116,360	\$ 50,497,823	
2033	\$ 443,137	\$ 3,262,621	\$ 18,059,548	\$ 2,171,932	\$ 24,370,275	\$ 119,557	\$ 11,255	\$ -	\$ 111,150	\$ 48,549,474	
2034	\$ 143,410	\$ 2,737,611	\$ 5,844,514	\$ 702,890	\$ 28,239,106	\$ 189,882	\$ 3,642	\$ -	\$ 108,237	\$ 37,969,294	
2035	\$ 278,466	\$ 2,988,377	\$ 11,348,571	\$ 1,364,836	\$ 29,132,208	\$ 147,172	\$ 7,072	\$ -	\$ 104,434	\$ 45,371,136	
Total PV	\$ 71,185,372	\$ 87,404,687	\$ 265,916,457	\$ 17,258,736	\$ 400,880,644	\$ 1,221,202	\$ 729,272	\$ 1,534	\$ 5,641,670	\$ 850,239,573	
Annualized	\$ 4,088,024	\$ 5,019,465	\$ 15,271,016	\$ 991,132	\$ 23,021,722	\$ 70,131	\$ 41,881	\$ 88	\$ 323,989	\$ 48,827,449	

**C.9 Regulatory Alternative 1 Total Rule Costs by Rule Component (2008\$) - Period 1 (2011-2035) Present and Annualized Values Using a 7% Discount Rate**

Year	Rule Component									TOTAL
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin	
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,017,362	\$ 2,017,362
2012	\$ 6,453,033	\$ 3,216,739	\$ 16,873,801	\$ 807,859	\$ 63,425	\$ -	\$ 6,718	\$ -	\$ 199,052	\$ 27,620,626
2013	\$ 6,030,872	\$ 3,298,600	\$ 15,769,907	\$ 755,008	\$ 2,173,539	\$ 5,048	\$ 6,279	\$ -	\$ 186,247	\$ 28,225,500
2014	\$ 11,272,657	\$ 6,165,608	\$ 29,476,462	\$ 1,411,230	\$ 4,062,690	\$ 4,718	\$ 11,736	\$ -	\$ 177,958	\$ 52,583,058
2015	\$ -	\$ 1,021,233	\$ -	\$ -	\$ 7,386,717	\$ 13,228	\$ -	\$ -	\$ 159,725	\$ 8,580,903
2016	\$ 9,845,975	\$ 5,862,492	\$ 25,745,884	\$ 1,232,623	\$ 7,000,247	\$ 4,121	\$ 10,250	\$ -	\$ 155,921	\$ 49,857,514
2017	\$ 25,163,923	\$ 13,284,320	\$ 74,757,533	\$ 2,964,547	\$ 9,979,299	\$ 28,298	\$ 34,564	\$ -	\$ 162,199	\$ 126,374,683
2018	\$ -	\$ 2,347,042	\$ -	\$ -	\$ 18,255,719	\$ 35,875	\$ -	\$ -	\$ 132,079	\$ 20,770,715
2019	\$ -	\$ 2,201,298	\$ -	\$ -	\$ 17,061,420	\$ 32,614	\$ -	\$ -	\$ 123,957	\$ 19,419,288
2020	\$ -	\$ 2,042,708	\$ -	\$ -	\$ 15,945,252	\$ 23,954	\$ -	\$ -	\$ 114,978	\$ 18,126,892
2021	\$ -	\$ 1,922,699	\$ -	\$ -	\$ 14,902,105	\$ 28,486	\$ -	\$ -	\$ 108,356	\$ 16,961,646
2022	\$ -	\$ 1,787,129	\$ -	\$ -	\$ 12,650,210	\$ 55,154	\$ 208,604	\$ 1,009	\$ 103,207	\$ 14,805,313
2023	\$ -	\$ 1,640,460	\$ -	\$ -	\$ 11,822,626	\$ 18,856	\$ 21,233	\$ -	\$ 94,107	\$ 13,597,281
2024	\$ -	\$ 1,538,701	\$ -	\$ -	\$ 11,049,183	\$ 25,652	\$ 19,844	\$ -	\$ 88,357	\$ 12,721,737
2025	\$ -	\$ 1,427,643	\$ -	\$ -	\$ 10,326,339	\$ 11,208	\$ 18,545	\$ -	\$ 81,891	\$ 11,865,626
2026	\$ -	\$ 1,343,961	\$ -	\$ -	\$ 9,650,784	\$ 22,405	\$ 17,332	\$ -	\$ 77,242	\$ 11,111,725
2027	\$ -	\$ 1,274,198	\$ -	\$ -	\$ 9,019,425	\$ 37,367	\$ 16,198	\$ -	\$ 73,538	\$ 10,420,725
2028	\$ -	\$ 1,169,625	\$ -	\$ -	\$ 8,429,369	\$ 15,274	\$ 15,139	\$ -	\$ 67,215	\$ 9,696,622
2029	\$ 83,739	\$ 1,281,293	\$ 3,412,688	\$ 410,427	\$ 7,962,297	\$ 16,579	\$ 16,275	\$ -	\$ 63,377	\$ 13,246,675
2030	\$ -	\$ 1,049,639	\$ -	\$ -	\$ 8,247,987	\$ 20,443	\$ 13,223	\$ -	\$ 58,518	\$ 9,389,811
2031	\$ 73,141	\$ 1,148,803	\$ 2,980,774	\$ 358,483	\$ 7,782,102	\$ 18,306	\$ 14,215	\$ -	\$ 55,460	\$ 12,431,284
2032	\$ 273,424	\$ 1,565,462	\$ 11,143,079	\$ 1,340,122	\$ 8,253,022	\$ 46,998	\$ 13,552	\$ -	\$ 53,527	\$ 22,689,187
2033	\$ 191,652	\$ 1,411,050	\$ 7,810,570	\$ 939,338	\$ 10,539,894	\$ 51,707	\$ 4,868	\$ -	\$ 48,804	\$ 20,997,883
2034	\$ 59,705	\$ 1,139,728	\$ 2,433,199	\$ 292,629	\$ 11,756,559	\$ 79,052	\$ 1,516	\$ -	\$ 45,805	\$ 15,808,193
2035	\$ 111,598	\$ 1,197,617	\$ 4,548,036	\$ 546,970	\$ 11,674,980	\$ 58,981	\$ 2,834	\$ -	\$ 42,423	\$ 18,183,439
Total PV	\$ 59,559,719	\$ 60,338,049	\$ 194,951,933	\$ 11,059,236	\$ 235,995,188	\$ 654,325	\$ 452,925	\$ 1,009	\$ 4,491,304	\$ 567,503,686
Annualized	\$ 5,110,850	\$ 5,177,639	\$ 16,728,926	\$ 948,999	\$ 20,250,869	\$ 56,148	\$ 38,866	\$ 87	\$ 385,401	\$ 48,697,785

**C.10 Regulatory Alternative 1 Total Rule Costs by Rule Component (2008\$) - Period 2 (2036-2060) Unadjusted Values**

Year	Rule Component									
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin	TOTAL
2036	\$ 849,097	\$ 6,992,683	\$ 34,603,961	\$ 4,161,645	\$ 65,909,496	\$ 468,057	\$ 21,565	\$ -	\$ 217,254	\$ 113,223,760
2037	\$ 283,032	\$ 6,261,937	\$ 11,534,654	\$ 1,387,215	\$ 74,945,850	\$ 757,791	\$ 7,188	\$ -	\$ 221,242	\$ 95,398,910
2038	\$ -	\$ 5,648,269	\$ -	\$ -	\$ 77,862,899	\$ 653,066	\$ -	\$ -	\$ 216,322	\$ 84,380,556
2039	\$ -	\$ 5,622,845	\$ -	\$ -	\$ 77,862,899	\$ 603,394	\$ -	\$ -	\$ 216,322	\$ 84,305,460
2040	\$ -	\$ 5,481,218	\$ -	\$ -	\$ 74,660,644	\$ 542,782	\$ 1,027,067	\$ 958	\$ 215,064	\$ 81,927,734
2041	\$ -	\$ 5,585,676	\$ -	\$ -	\$ 74,660,644	\$ 703,516	\$ 84,450	\$ -	\$ 217,579	\$ 81,251,864
2042	\$ -	\$ 5,563,290	\$ -	\$ -	\$ 71,458,389	\$ 757,325	\$ 1,111,517	\$ 958	\$ 221,350	\$ 79,112,829
2043	\$ -	\$ 4,959,334	\$ -	\$ -	\$ 58,649,369	\$ 460,670	\$ 4,277,168	\$ 3,834	\$ 216,681	\$ 68,567,055
2044	\$ -	\$ 4,550,616	\$ -	\$ -	\$ 49,042,604	\$ 296,241	\$ 3,587,899	\$ 2,875	\$ 215,064	\$ 57,695,299
2045	\$ -	\$ 4,447,815	\$ -	\$ -	\$ 45,840,349	\$ 305,984	\$ 1,787,113	\$ 958	\$ 213,448	\$ 52,595,668
2046	\$ -	\$ 4,283,801	\$ -	\$ -	\$ 39,435,838	\$ 317,856	\$ 2,898,630	\$ 1,917	\$ 215,603	\$ 47,153,646
2048	\$ -	\$ 3,694,629	\$ -	\$ -	\$ 26,626,818	\$ 48,248	\$ 2,293,811	\$ 958	\$ 211,652	\$ 32,876,116
2049	\$ -	\$ 3,708,032	\$ -	\$ -	\$ 26,626,818	\$ 56,037	\$ 1,351,193	\$ -	\$ 212,011	\$ 31,954,091
2050	\$ -	\$ 3,681,227	\$ -	\$ -	\$ 26,626,818	\$ 34,679	\$ 1,319,650	\$ -	\$ 210,575	\$ 31,872,948
2051	\$ -	\$ 3,708,032	\$ -	\$ -	\$ 26,626,818	\$ 56,037	\$ 1,266,744	\$ -	\$ 212,011	\$ 31,869,642
2052	\$ -	\$ 3,761,642	\$ -	\$ -	\$ 26,626,818	\$ 116,092	\$ 1,235,200	\$ -	\$ 214,885	\$ 31,954,637
2053	\$ -	\$ 3,359,972	\$ -	\$ -	\$ 24,206,198	\$ 36,688	\$ 1,548,812	\$ 958	\$ 211,473	\$ 29,364,102
2054	\$ -	\$ 3,038,718	\$ -	\$ -	\$ 21,785,579	\$ 56,037	\$ 1,500,685	\$ 958	\$ 212,011	\$ 26,593,988
2055	\$ -	\$ 2,342,599	\$ -	\$ -	\$ 16,944,339	\$ 11,560	\$ 2,061,243	\$ 1,917	\$ 210,575	\$ 21,572,232
2056	\$ -	\$ 2,369,404	\$ -	\$ -	\$ 16,944,339	\$ 56,037	\$ 1,476,122	\$ -	\$ 211,293	\$ 21,057,194
2057	\$ -	\$ 1,740,297	\$ -	\$ -	\$ 12,103,099	\$ 67,844	\$ 2,261,063	\$ 1,917	\$ 213,807	\$ 16,388,028
2058	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 4,065,132	\$ 4,792	\$ 210,395	\$ 4,280,320
2059	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 2,839,406	\$ -	\$ 208,599	\$ 3,048,005
2060	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 2,839,406	\$ -	\$ 208,599	\$ 3,048,005
Total	\$ 1,132,129	\$ 94,717,326	\$ 46,138,615	\$ 5,548,861	\$ 965,275,700	\$ 6,588,513	\$ 44,955,658	\$ 25,878	\$ 5,350,675	\$ 1,169,733,356

**C.11 Regulatory Alternative 1 Total Rule Costs by Rule Component (2008\$) - Period 2 (2036-2060) Present and Annualized Values Using a 3% Discount Rate**

Year	Rule Component										<b>TOTAL</b>
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin		
2036	\$ 405,533	\$ 3,339,745	\$ 16,527,044	\$ 1,987,625	\$ 31,478,743	\$ 223,547	\$ 10,300	\$ -	\$ 103,762	\$ 54,076,298	
2037	\$ 131,241	\$ 2,903,627	\$ 5,348,558	\$ 643,244	\$ 34,751,995	\$ 351,384	\$ 3,333	\$ -	\$ 102,385	\$ 44,235,767	
2038	\$ -	\$ 2,542,789	\$ -	\$ -	\$ 35,053,025	\$ 294,003	\$ -	\$ -	\$ 97,516	\$ 37,987,334	
2039	\$ -	\$ 2,457,615	\$ -	\$ -	\$ 34,032,063	\$ 263,729	\$ -	\$ -	\$ 94,808	\$ 36,848,215	
2040	\$ -	\$ 2,325,935	\$ -	\$ -	\$ 31,681,973	\$ 230,328	\$ 435,832	\$ 407	\$ 91,493	\$ 34,765,967	
2041	\$ -	\$ 2,301,224	\$ -	\$ -	\$ 30,759,197	\$ 289,839	\$ 34,792	\$ -	\$ 89,654	\$ 33,474,707	
2042	\$ -	\$ 2,225,244	\$ -	\$ -	\$ 28,582,437	\$ 302,920	\$ 444,592	\$ 383	\$ 88,366	\$ 31,643,943	
2043	\$ -	\$ 1,925,893	\$ -	\$ -	\$ 22,775,722	\$ 178,895	\$ 1,660,983	\$ 1,489	\$ 84,196	\$ 26,627,178	
2044	\$ -	\$ 1,715,702	\$ -	\$ -	\$ 18,490,349	\$ 111,691	\$ 1,352,732	\$ 1,084	\$ 81,517	\$ 21,753,075	
2045	\$ -	\$ 1,628,100	\$ -	\$ -	\$ 16,779,626	\$ 112,004	\$ 654,164	\$ 351	\$ 78,593	\$ 19,252,837	
2046	\$ -	\$ 1,522,392	\$ -	\$ -	\$ 14,014,842	\$ 112,961	\$ 1,030,125	\$ 681	\$ 76,945	\$ 16,757,946	
2047	\$ -	\$ 1,350,902	\$ -	\$ -	\$ 10,291,998	\$ 62,994	\$ 1,412,768	\$ 992	\$ 75,361	\$ 13,195,015	
2048	\$ -	\$ 1,237,638	\$ -	\$ -	\$ 8,919,530	\$ 16,162	\$ 768,387	\$ 321	\$ 71,689	\$ 11,013,727	
2049	\$ -	\$ 1,205,949	\$ -	\$ -	\$ 8,659,738	\$ 18,225	\$ 439,443	\$ -	\$ 69,764	\$ 10,393,118	
2050	\$ -	\$ 1,162,360	\$ -	\$ -	\$ 8,407,512	\$ 10,950	\$ 416,684	\$ -	\$ 67,289	\$ 10,064,795	
2051	\$ -	\$ 1,136,722	\$ -	\$ -	\$ 8,162,633	\$ 17,178	\$ 388,329	\$ -	\$ 65,759	\$ 9,770,622	
2052	\$ -	\$ 1,119,570	\$ -	\$ -	\$ 7,924,887	\$ 34,552	\$ 367,630	\$ -	\$ 64,679	\$ 9,511,318	
2053	\$ -	\$ 970,895	\$ -	\$ -	\$ 6,994,604	\$ 10,601	\$ 447,544	\$ 277	\$ 61,832	\$ 8,485,753	
2054	\$ -	\$ 852,491	\$ -	\$ -	\$ 6,111,790	\$ 15,721	\$ 421,007	\$ 269	\$ 60,179	\$ 7,461,456	
2055	\$ -	\$ 638,058	\$ -	\$ -	\$ 4,615,160	\$ 3,149	\$ 561,424	\$ 522	\$ 58,044	\$ 5,876,356	
2056	\$ -	\$ 626,562	\$ -	\$ -	\$ 4,480,738	\$ 14,818	\$ 390,344	\$ -	\$ 56,539	\$ 5,569,000	
2057	\$ -	\$ 446,798	\$ -	\$ -	\$ 3,107,308	\$ 17,418	\$ 580,497	\$ 492	\$ 55,522	\$ 4,208,036	
2058	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 1,013,270	\$ 1,195	\$ 53,075	\$ 1,067,539	
2059	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 687,133	\$ -	\$ 51,104	\$ 738,237	
2060	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 667,119	\$ -	\$ 49,616	\$ 716,735	
<b>Total PV</b>	<b>\$ 536,774</b>	<b>\$ 35,636,211</b>	<b>\$ 21,875,603</b>	<b>\$ 2,630,869</b>	<b>\$ 376,075,868</b>	<b>\$ 2,693,069</b>	<b>\$ 14,188,433</b>	<b>\$ 8,463</b>	<b>\$ 1,849,686</b>	<b>\$ 455,494,976</b>	
<b>Annualized</b>	<b>\$ 30,826</b>	<b>\$ 2,046,512</b>	<b>\$ 1,256,269</b>	<b>\$ 151,095</b>	<b>\$ 21,597,236</b>	<b>\$ 154,657</b>	<b>\$ 814,811</b>	<b>\$ 486</b>	<b>\$ 106,224</b>	<b>\$ 26,158,107</b>	

**C.12 Regulatory Alternative 1 Total Rule Costs by Rule Component (2008\$) - Period 2 (2036-2060) Present and Annualized Values Using a 7% Discount Rate**

Year	Rule Component									
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin	TOTAL
2036	\$ 156,445	\$ 1,288,396	\$ 6,375,751	\$ 766,780	\$ 12,143,771	\$ 86,239	\$ 3,973	\$ -	\$ 40,029	\$ 20,861,385
2037	\$ 48,737	\$ 1,078,277	\$ 1,986,215	\$ 238,872	\$ 12,905,338	\$ 130,488	\$ 1,238	\$ -	\$ 38,864	\$ 16,428,030
2038	\$ -	\$ 908,978	\$ -	\$ -	\$ 12,530,505	\$ 105,098	\$ -	\$ -	\$ 35,139	\$ 13,579,720
2039	\$ -	\$ 845,688	\$ -	\$ -	\$ 11,710,752	\$ 90,752	\$ -	\$ -	\$ 32,945	\$ 12,680,137
2040	\$ -	\$ 770,455	\$ -	\$ -	\$ 10,494,510	\$ 76,295	\$ 144,367	\$ 135	\$ 30,465	\$ 11,516,228
2041	\$ -	\$ 733,774	\$ -	\$ -	\$ 9,807,954	\$ 92,419	\$ 11,094	\$ -	\$ 28,984	\$ 10,674,224
2042	\$ -	\$ 683,022	\$ -	\$ -	\$ 8,773,161	\$ 92,979	\$ 136,464	\$ 118	\$ 27,906	\$ 9,713,650
2043	\$ -	\$ 569,040	\$ -	\$ -	\$ 6,729,495	\$ 52,858	\$ 490,767	\$ 440	\$ 25,171	\$ 7,867,770
2044	\$ -	\$ 487,984	\$ -	\$ -	\$ 5,259,069	\$ 31,767	\$ 384,747	\$ 308	\$ 23,448	\$ 6,187,324
2045	\$ -	\$ 445,757	\$ -	\$ -	\$ 4,594,090	\$ 30,666	\$ 179,103	\$ 96	\$ 21,612	\$ 5,271,323
2046	\$ -	\$ 401,233	\$ -	\$ -	\$ 3,693,677	\$ 29,771	\$ 271,494	\$ 180	\$ 20,568	\$ 4,416,923
2047	\$ -	\$ 342,727	\$ -	\$ -	\$ 2,611,102	\$ 15,982	\$ 358,422	\$ 252	\$ 19,661	\$ 3,348,145
2048	\$ -	\$ 302,253	\$ -	\$ -	\$ 2,178,309	\$ 3,947	\$ 187,654	\$ 78	\$ 17,601	\$ 2,689,843
2049	\$ -	\$ 283,504	\$ -	\$ -	\$ 2,035,803	\$ 4,284	\$ 103,308	\$ -	\$ 16,565	\$ 2,443,465
2050	\$ -	\$ 263,042	\$ -	\$ -	\$ 1,902,620	\$ 2,478	\$ 94,296	\$ -	\$ 15,249	\$ 2,277,684
2051	\$ -	\$ 247,624	\$ -	\$ -	\$ 1,778,149	\$ 3,742	\$ 84,594	\$ -	\$ 14,501	\$ 2,128,609
2052	\$ -	\$ 234,770	\$ -	\$ -	\$ 1,661,822	\$ 7,245	\$ 77,091	\$ -	\$ 14,031	\$ 1,994,958
2053	\$ -	\$ 195,982	\$ -	\$ -	\$ 1,411,913	\$ 2,140	\$ 90,340	\$ 56	\$ 12,612	\$ 1,713,044
2054	\$ -	\$ 165,649	\$ -	\$ -	\$ 1,187,590	\$ 3,055	\$ 81,806	\$ 52	\$ 11,880	\$ 1,450,033
2055	\$ -	\$ 119,347	\$ -	\$ -	\$ 863,254	\$ 589	\$ 105,013	\$ 98	\$ 10,911	\$ 1,099,211
2056	\$ -	\$ 112,816	\$ -	\$ -	\$ 806,779	\$ 2,668	\$ 70,283	\$ -	\$ 10,305	\$ 1,002,851
2057	\$ -	\$ 77,441	\$ -	\$ -	\$ 538,571	\$ 3,019	\$ 100,614	\$ 85	\$ 9,977	\$ 729,707
2058	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 169,059	\$ 199	\$ 8,906	\$ 178,164
2059	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 110,359	\$ -	\$ 8,108	\$ 118,466
2060	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 103,139	\$ -	\$ 7,577	\$ 110,716
Total PV	\$ 205,182	\$ 10,557,760	\$ 8,361,967	\$ 1,005,652	\$ 115,618,231	\$ 868,482	\$ 3,359,226	\$ 2,097	\$ 503,013	\$ 140,481,609
Annualized	\$ 17,607	\$ 905,967	\$ 717,545	\$ 86,296	\$ 9,921,260	\$ 74,525	\$ 288,257	\$ 180	\$ 43,164	\$ 12,054,800

**C.13 Regulatory Alternative 2 Total Rule Costs by Rule Component (2008\$) - Period 1 (2011-2035) Unadjusted Values**

Year	Rule Component									TOTAL
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin	
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,017,362	\$ 2,017,362
2012	\$ 12,493,549	\$ 3,466,253	\$ 18,980,829	\$ 864,409	\$ 79,847	\$ -	\$ 7,188	\$ 479	\$ 213,397	\$ 36,105,952
2013	\$ 12,493,549	\$ 3,845,602	\$ 18,980,829	\$ 864,409	\$ 2,571,056	\$ 5,780	\$ 7,188	\$ 479	\$ 213,577	\$ 38,982,470
2014	\$ 24,987,099	\$ 7,691,203	\$ 37,961,659	\$ 1,728,817	\$ 5,142,113	\$ 5,780	\$ 14,377	\$ 958	\$ 218,555	\$ 77,750,561
2015	\$ -	\$ 1,517,396	\$ -	\$ -	\$ 9,964,838	\$ 17,339	\$ -	\$ -	\$ 209,317	\$ 11,708,891
2016	\$ 24,987,099	\$ 8,449,901	\$ 37,961,659	\$ 1,728,817	\$ 10,124,532	\$ 5,780	\$ 14,377	\$ 958	\$ 218,914	\$ 83,492,037
2017	\$ 68,032,745	\$ 21,690,688	\$ 118,343,731	\$ 4,448,986	\$ 15,479,997	\$ 42,468	\$ 51,872	\$ 3,458	\$ 243,640	\$ 228,337,585
2018	\$ -	\$ 5,587,735	\$ -	\$ -	\$ 30,190,503	\$ 57,608	\$ -	\$ -	\$ 211,691	\$ 36,047,537
2019	\$ -	\$ 6,913,717	\$ -	\$ -	\$ 30,190,503	\$ 56,037	\$ -	\$ -	\$ 212,409	\$ 37,372,666
2020	\$ -	\$ 4,261,753	\$ -	\$ -	\$ 30,190,503	\$ 44,039	\$ -	\$ -	\$ 210,973	\$ 34,707,267
2021	\$ -	\$ 6,913,717	\$ -	\$ -	\$ 30,190,503	\$ 56,037	\$ -	\$ -	\$ 212,409	\$ 37,372,666
2022	\$ -	\$ 12,128,731	\$ -	\$ -	\$ 27,403,304	\$ 116,092	\$ 509,403	\$ 2,124	\$ 216,079	\$ 40,375,733
2023	\$ -	\$ 5,498,821	\$ -	\$ -	\$ 27,403,304	\$ 42,468	\$ 47,820	\$ -	\$ 211,293	\$ 33,203,706
2024	\$ -	\$ 6,824,803	\$ -	\$ -	\$ 27,403,304	\$ 61,817	\$ 47,820	\$ -	\$ 212,011	\$ 34,549,755
2025	\$ -	\$ 4,172,839	\$ -	\$ -	\$ 27,403,304	\$ 28,899	\$ 47,820	\$ -	\$ 210,575	\$ 31,863,437
2026	\$ -	\$ 6,824,803	\$ -	\$ -	\$ 27,403,304	\$ 61,817	\$ 58,440	\$ -	\$ 212,011	\$ 34,560,375
2027	\$ -	\$ 12,128,731	\$ -	\$ -	\$ 27,403,304	\$ 110,312	\$ 47,820	\$ -	\$ 214,885	\$ 39,905,052
2028	\$ -	\$ 5,498,821	\$ -	\$ -	\$ 27,403,304	\$ 48,248	\$ 47,820	\$ -	\$ 211,293	\$ 33,209,486
2029	\$ 470,840	\$ 7,474,770	\$ 11,894,403	\$ 1,387,215	\$ 27,736,949	\$ 56,037	\$ 55,008	\$ 479	\$ 212,872	\$ 49,288,574
2030	\$ -	\$ 4,305,963	\$ -	\$ -	\$ 30,678,350	\$ 73,932	\$ 47,820	\$ -	\$ 210,754	\$ 35,316,820
2031	\$ 470,840	\$ 7,607,895	\$ 11,894,403	\$ 1,387,215	\$ 31,011,995	\$ 70,837	\$ 65,628	\$ 479	\$ 213,052	\$ 52,722,344
2032	\$ 1,883,359	\$ 14,994,849	\$ 47,577,611	\$ 5,548,861	\$ 35,287,975	\$ 194,599	\$ 56,113	\$ 1,917	\$ 218,687	\$ 105,763,972
2033	\$ 1,412,519	\$ 8,247,468	\$ 35,683,209	\$ 4,161,645	\$ 48,054,512	\$ 229,084	\$ 21,565	\$ 1,438	\$ 214,953	\$ 98,026,393
2034	\$ 470,840	\$ 9,384,670	\$ 11,894,403	\$ 1,387,215	\$ 57,212,359	\$ 374,749	\$ 7,188	\$ 479	\$ 215,207	\$ 80,947,109
2035	\$ 941,679	\$ 6,804,016	\$ 23,788,806	\$ 2,774,430	\$ 60,821,049	\$ 299,171	\$ 14,377	\$ 958	\$ 214,092	\$ 95,658,578
<b>Total</b>	<b>\$ 148,644,118</b>	<b>\$ 182,235,148</b>	<b>\$ 374,961,541</b>	<b>\$ 26,282,020</b>	<b>\$ 646,750,711</b>	<b>\$ 2,058,928</b>	<b>\$ 1,169,645</b>	<b>\$ 14,208</b>	<b>\$ 7,170,008</b>	<b>\$ 1,389,286,327</b>

**C.14 Regulatory Alternative 2 Total Rule Costs by Rule Component (2008\$) - Period 1 (2011-2035) Present and Annualized Values Using a 3% Discount Rate**

Year	Rule Component									
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin	TOTAL
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,017,362	\$ 2,017,362
2012	\$ 12,129,660	\$ 3,365,294	\$ 18,427,990	\$ 839,232	\$ 77,521	\$ -	\$ 6,979	\$ 465	\$ 206,704	\$ 35,053,845
2013	\$ 11,776,369	\$ 3,624,848	\$ 17,891,252	\$ 814,788	\$ 2,423,467	\$ 5,448	\$ 6,776	\$ 452	\$ 200,849	\$ 36,744,249
2014	\$ 22,866,735	\$ 7,038,541	\$ 34,740,295	\$ 1,582,113	\$ 4,705,762	\$ 5,289	\$ 13,157	\$ 877	\$ 199,101	\$ 71,151,869
2015	\$ -	\$ 1,348,187	\$ -	\$ -	\$ 8,853,629	\$ 15,406	\$ -	\$ -	\$ 185,961	\$ 10,403,183
2016	\$ 21,554,091	\$ 7,288,959	\$ 32,746,060	\$ 1,491,293	\$ 8,733,510	\$ 4,986	\$ 12,401	\$ 827	\$ 187,974	\$ 72,020,102
2017	\$ 56,976,353	\$ 18,165,610	\$ 99,111,011	\$ 3,725,956	\$ 12,964,254	\$ 35,566	\$ 43,442	\$ 2,896	\$ 201,950	\$ 191,227,038
2018	\$ -	\$ 4,543,340	\$ -	\$ -	\$ 24,547,642	\$ 46,840	\$ -	\$ -	\$ 172,073	\$ 29,309,895
2019	\$ -	\$ 5,457,752	\$ -	\$ -	\$ 23,832,662	\$ 44,236	\$ -	\$ -	\$ 167,615	\$ 29,502,265
2020	\$ -	\$ 3,266,279	\$ -	\$ -	\$ 23,138,507	\$ 33,752	\$ -	\$ -	\$ 161,658	\$ 26,600,195
2021	\$ -	\$ 5,144,455	\$ -	\$ -	\$ 22,464,570	\$ 41,697	\$ -	\$ -	\$ 157,993	\$ 27,808,714
2022	\$ -	\$ 8,762,054	\$ -	\$ -	\$ 19,796,730	\$ 83,867	\$ 368,004	\$ 1,534	\$ 155,994	\$ 29,168,183
2023	\$ -	\$ 3,856,763	\$ -	\$ -	\$ 19,220,126	\$ 29,786	\$ 33,540	\$ -	\$ 148,153	\$ 23,288,367
2024	\$ -	\$ 4,647,359	\$ -	\$ -	\$ 18,660,317	\$ 42,094	\$ 32,563	\$ -	\$ 144,315	\$ 23,526,648
2025	\$ -	\$ 2,758,738	\$ -	\$ -	\$ 18,116,812	\$ 19,106	\$ 31,615	\$ -	\$ 139,184	\$ 21,065,455
2026	\$ -	\$ 4,380,582	\$ -	\$ -	\$ 17,589,138	\$ 39,678	\$ 37,510	\$ -	\$ 136,031	\$ 22,182,939
2027	\$ -	\$ 7,558,224	\$ -	\$ -	\$ 17,076,833	\$ 68,743	\$ 29,800	\$ -	\$ 133,818	\$ 24,867,418
2028	\$ -	\$ 3,326,877	\$ -	\$ -	\$ 16,579,450	\$ 29,191	\$ 28,932	\$ -	\$ 127,798	\$ 20,092,247
2029	\$ 276,569	\$ 4,390,640	\$ 6,986,708	\$ 814,843	\$ 16,292,534	\$ 32,916	\$ 32,312	\$ 281	\$ 124,735	\$ 28,951,537
2030	\$ -	\$ 2,455,631	\$ -	\$ -	\$ 17,495,434	\$ 42,163	\$ 27,271	\$ -	\$ 120,119	\$ 20,140,617
2031	\$ 260,693	\$ 4,212,307	\$ 6,585,642	\$ 768,067	\$ 17,170,590	\$ 39,221	\$ 36,337	\$ 265	\$ 117,630	\$ 29,190,752
2032	\$ 1,012,398	\$ 8,060,470	\$ 25,575,311	\$ 2,982,786	\$ 18,969,026	\$ 104,607	\$ 30,164	\$ 1,030	\$ 116,445	\$ 56,852,236
2033	\$ 737,183	\$ 4,304,292	\$ 18,622,799	\$ 2,171,932	\$ 25,079,290	\$ 119,557	\$ 11,255	\$ 750	\$ 111,212	\$ 51,158,269
2034	\$ 238,571	\$ 4,755,135	\$ 6,026,796	\$ 702,890	\$ 28,989,030	\$ 189,882	\$ 3,642	\$ 243	\$ 108,257	\$ 41,014,446
2035	\$ 463,244	\$ 3,347,125	\$ 11,702,516	\$ 1,364,836	\$ 29,919,926	\$ 147,172	\$ 7,072	\$ 471	\$ 104,473	\$ 47,056,836
Total PV	\$ 128,291,864	\$ 126,059,460	\$ 278,416,380	\$ 17,258,736	\$ 412,696,757	\$ 1,221,202	\$ 792,770	\$ 10,093	\$ 5,647,404	\$ 970,394,667
Annualized	\$ 7,367,529	\$ 7,239,326	\$ 15,988,860	\$ 991,132	\$ 23,700,296	\$ 70,131	\$ 45,527	\$ 580	\$ 324,318	\$ 55,727,700

**C.15 Regulatory Alternative 2 Total Rule Costs by Rule Component (2008\$) - Period 1 (2011-2035) Present and Annualized Values Using a 7% Discount Rate**

Year	Rule Component									Financial Responsibility	Permitting Authority Admin	TOTAL
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care					
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,017,362	\$ 2,017,362
2012	\$ 11,676,214	\$ 3,239,489	\$ 17,739,093	\$ 807,859	\$ 74,623	\$ -	\$ 6,718	\$ 448	\$ 199,500	\$ 33,743,944		
2013	\$ 10,912,350	\$ 3,358,897	\$ 16,578,591	\$ 755,008	\$ 2,245,660	\$ 5,048	\$ 6,279	\$ 419	\$ 186,673	\$ 34,048,925		
2014	\$ 20,396,916	\$ 6,278,313	\$ 30,988,021	\$ 1,411,230	\$ 4,197,496	\$ 4,718	\$ 11,736	\$ 782	\$ 178,766	\$ 63,467,978		
2015	\$ -	\$ 1,157,614	\$ -	\$ -	\$ 7,602,127	\$ 13,228	\$ -	\$ -	\$ 159,725	\$ 8,932,694		
2016	\$ 17,815,456	\$ 6,024,663	\$ 27,066,138	\$ 1,232,623	\$ 7,218,651	\$ 4,121	\$ 10,250	\$ 683	\$ 156,651	\$ 59,529,237		
2017	\$ 45,333,091	\$ 14,453,422	\$ 78,857,425	\$ 2,964,547	\$ 10,314,976	\$ 28,298	\$ 34,564	\$ 2,304	\$ 164,673	\$ 152,153,299		
2018	\$ -	\$ 3,479,761	\$ -	\$ -	\$ 18,801,128	\$ 35,875	\$ -	\$ -	\$ 132,079	\$ 22,448,842		
2019	\$ -	\$ 4,023,846	\$ -	\$ -	\$ 17,571,148	\$ 32,614	\$ -	\$ -	\$ 123,957	\$ 21,751,565		
2020	\$ -	\$ 2,318,111	\$ -	\$ -	\$ 16,421,633	\$ 23,954	\$ -	\$ -	\$ 114,978	\$ 18,878,677		
2021	\$ -	\$ 3,514,583	\$ -	\$ -	\$ 15,347,321	\$ 28,486	\$ -	\$ -	\$ 108,356	\$ 18,998,747		
2022	\$ -	\$ 5,762,273	\$ -	\$ -	\$ 13,019,112	\$ 55,154	\$ 242,014	\$ 1,009	\$ 103,439	\$ 19,183,002		
2023	\$ -	\$ 2,441,542	\$ -	\$ -	\$ 12,167,395	\$ 18,856	\$ 21,233	\$ -	\$ 94,107	\$ 14,743,133		
2024	\$ -	\$ 2,832,051	\$ -	\$ -	\$ 11,371,397	\$ 25,652	\$ 19,844	\$ -	\$ 88,357	\$ 14,337,300		
2025	\$ -	\$ 1,618,299	\$ -	\$ -	\$ 10,627,474	\$ 11,208	\$ 18,545	\$ -	\$ 81,891	\$ 12,357,416		
2026	\$ -	\$ 2,473,623	\$ -	\$ -	\$ 9,932,218	\$ 22,405	\$ 21,181	\$ -	\$ 77,242	\$ 12,526,670		
2027	\$ -	\$ 4,108,421	\$ -	\$ -	\$ 9,282,447	\$ 37,367	\$ 16,198	\$ -	\$ 73,538	\$ 13,517,971		
2028	\$ -	\$ 1,740,786	\$ -	\$ -	\$ 8,675,184	\$ 15,274	\$ 15,139	\$ -	\$ 67,215	\$ 10,513,598		
2029	\$ 139,304	\$ 2,211,515	\$ 3,519,125	\$ 410,427	\$ 8,206,362	\$ 16,579	\$ 16,275	\$ 142	\$ 63,398	\$ 14,583,127		
2030	\$ -	\$ 1,190,635	\$ -	\$ -	\$ 8,482,819	\$ 20,443	\$ 13,223	\$ -	\$ 58,518	\$ 9,765,638		
2031	\$ 121,674	\$ 1,966,025	\$ 3,073,740	\$ 358,483	\$ 8,014,089	\$ 18,306	\$ 16,960	\$ 124	\$ 55,479	\$ 13,624,877		
2032	\$ 454,856	\$ 3,621,452	\$ 11,490,616	\$ 1,340,122	\$ 8,522,508	\$ 46,998	\$ 13,552	\$ 463	\$ 53,595	\$ 25,544,163		
2033	\$ 318,824	\$ 1,861,562	\$ 8,054,170	\$ 939,338	\$ 10,846,536	\$ 51,707	\$ 4,868	\$ 325	\$ 48,852	\$ 22,126,182		
2034	\$ 99,322	\$ 1,979,667	\$ 2,509,087	\$ 292,629	\$ 12,068,769	\$ 79,052	\$ 1,516	\$ 101	\$ 45,820	\$ 17,075,963		
2035	\$ 185,649	\$ 1,341,389	\$ 4,689,883	\$ 546,970	\$ 11,990,664	\$ 58,981	\$ 2,834	\$ 189	\$ 42,451	\$ 18,859,009		
Total PV	\$ 107,453,656	\$ 82,997,938	\$ 204,565,888	\$ 11,059,236	\$ 243,001,737	\$ 654,325	\$ 492,928	\$ 6,989	\$ 4,496,622	\$ 654,729,319		
Annualized	\$ 9,220,654	\$ 7,122,096	\$ 17,553,905	\$ 948,999	\$ 20,852,105	\$ 56,148	\$ 42,298	\$ 600	\$ 385,857	\$ 56,182,661		

**C.16 Regulatory Alternative 2 Total Rule Costs by Rule Component (2008\$) - Period 2 (2036-2060) Unadjusted Values**

Year	Rule Component										TOTAL
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin		
2036	\$ 1,412,519	\$ 11,083,977	\$ 35,683,209	\$ 4,161,645	\$ 67,704,785	\$ 468,057	\$ 21,565	\$ 1,438	\$ 217,467	\$ 120,754,662	
2037	\$ 470,840	\$ 17,622,687	\$ 11,894,403	\$ 1,387,215	\$ 76,862,632	\$ 757,791	\$ 7,188	\$ 479	\$ 221,313	\$ 109,224,548	
2038	\$ -	\$ 9,764,153	\$ -	\$ -	\$ 79,804,032	\$ 653,066	\$ -	\$ -	\$ 216,322	\$ 90,437,572	
2039	\$ -	\$ 10,378,353	\$ -	\$ -	\$ 79,804,032	\$ 603,394	\$ -	\$ -	\$ 216,322	\$ 91,002,101	
2040	\$ -	\$ 7,593,265	\$ -	\$ -	\$ 76,528,987	\$ 542,782	\$ 1,151,555	\$ 958	\$ 215,244	\$ 86,032,791	
2041	\$ -	\$ 11,668,792	\$ -	\$ -	\$ 76,528,987	\$ 703,516	\$ 84,450	\$ -	\$ 217,579	\$ 89,203,322	
2042	\$ -	\$ 17,551,377	\$ -	\$ -	\$ 73,253,941	\$ 757,325	\$ 1,236,005	\$ 958	\$ 221,530	\$ 93,021,136	
2043	\$ -	\$ 8,965,407	\$ -	\$ -	\$ 60,153,759	\$ 460,670	\$ 4,775,120	\$ 3,834	\$ 217,399	\$ 74,576,189	
2044	\$ -	\$ 8,468,454	\$ -	\$ -	\$ 50,328,623	\$ 296,241	\$ 3,966,155	\$ 2,875	\$ 215,603	\$ 63,277,952	
2045	\$ -	\$ 6,395,147	\$ -	\$ -	\$ 47,053,577	\$ 305,984	\$ 1,911,601	\$ 958	\$ 213,628	\$ 55,880,896	
2046	\$ -	\$ 9,492,644	\$ -	\$ -	\$ 40,503,486	\$ 317,856	\$ 3,152,398	\$ 1,917	\$ 215,962	\$ 53,684,263	
2047	\$ -	\$ 12,973,637	\$ -	\$ -	\$ 30,678,350	\$ 182,574	\$ 4,487,229	\$ 2,875	\$ 217,399	\$ 48,542,064	
2048	\$ -	\$ 5,498,821	\$ -	\$ -	\$ 27,403,304	\$ 48,248	\$ 2,432,675	\$ 958	\$ 211,832	\$ 35,595,838	
2049	\$ -	\$ 6,824,803	\$ -	\$ -	\$ 27,403,304	\$ 56,037	\$ 1,360,778	\$ -	\$ 212,011	\$ 35,856,933	
2050	\$ -	\$ 4,172,839	\$ -	\$ -	\$ 27,403,304	\$ 34,679	\$ 1,329,234	\$ -	\$ 210,575	\$ 33,150,631	
2051	\$ -	\$ 6,824,803	\$ -	\$ -	\$ 27,403,304	\$ 56,037	\$ 1,285,913	\$ -	\$ 212,011	\$ 35,782,068	
2052	\$ -	\$ 12,128,731	\$ -	\$ -	\$ 27,403,304	\$ 116,092	\$ 1,259,161	\$ -	\$ 214,885	\$ 41,122,174	
2053	\$ -	\$ 5,119,472	\$ -	\$ -	\$ 24,912,095	\$ 36,688	\$ 1,604,654	\$ 958	\$ 211,652	\$ 31,885,519	
2054	\$ -	\$ 6,066,105	\$ -	\$ -	\$ 22,420,885	\$ 56,037	\$ 1,546,943	\$ 958	\$ 212,191	\$ 30,303,119	
2055	\$ -	\$ 2,655,443	\$ -	\$ -	\$ 17,438,466	\$ 11,560	\$ 2,153,758	\$ 1,917	\$ 210,934	\$ 22,472,077	
2056	\$ -	\$ 5,307,407	\$ -	\$ -	\$ 17,438,466	\$ 56,037	\$ 1,490,498	\$ -	\$ 211,293	\$ 24,503,701	
2057	\$ -	\$ 8,526,655	\$ -	\$ -	\$ 12,456,047	\$ 67,844	\$ 2,353,578	\$ 1,917	\$ 214,166	\$ 23,620,208	
2058	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 4,277,251	\$ 4,792	\$ 211,293	\$ 4,493,336	
2059	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 2,848,990	\$ -	\$ 208,599	\$ 3,057,589	
2060	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 2,839,406	\$ -	\$ 208,599	\$ 3,048,005	
Total	\$ 1,883,359	\$ 195,082,975	\$ 47,577,611	\$ 5,548,861	\$ 990,887,669	\$ 6,588,513	\$ 47,576,104	\$ 27,795	\$ 5,355,808	\$ 1,300,528,695	

**C.17 Regulatory Alternative 2 Total Rule Costs by Rule Component (2008\$) - Period 2 (2036-2060) Present and Annualized Values Using a 3% Discount Rate**

Year	Rule Component										TOTAL
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin		
2036	\$ 674,627	\$ 5,293,769	\$ 17,042,499	\$ 1,987,625	\$ 32,336,182	\$ 223,547	\$ 10,300	\$ 687	\$ 103,864	\$ 57,673,099	
2037	\$ 218,326	\$ 8,171,547	\$ 5,515,372	\$ 643,244	\$ 35,640,797	\$ 351,384	\$ 3,333	\$ 222	\$ 102,447	\$ 50,646,672	
2038	\$ -	\$ 4,395,715	\$ -	\$ -	\$ 35,926,902	\$ 294,003	\$ -	\$ -	\$ 97,559	\$ 40,714,178	
2039	\$ -	\$ 4,536,137	\$ -	\$ -	\$ 34,880,487	\$ 263,729	\$ -	\$ -	\$ 94,849	\$ 39,775,202	
2040	\$ -	\$ 3,222,174	\$ -	\$ -	\$ 32,474,797	\$ 230,328	\$ 488,658	\$ 407	\$ 91,576	\$ 36,507,940	
2041	\$ -	\$ 4,807,388	\$ -	\$ -	\$ 31,528,929	\$ 289,839	\$ 34,792	\$ -	\$ 89,693	\$ 36,750,641	
2042	\$ -	\$ 7,020,325	\$ -	\$ -	\$ 29,300,635	\$ 302,920	\$ 494,386	\$ 383	\$ 88,444	\$ 37,207,093	
2043	\$ -	\$ 3,481,600	\$ -	\$ -	\$ 23,359,932	\$ 178,895	\$ 1,854,356	\$ 1,489	\$ 84,389	\$ 28,960,660	
2044	\$ -	\$ 3,192,829	\$ -	\$ -	\$ 18,975,212	\$ 111,691	\$ 1,495,345	\$ 1,084	\$ 81,666	\$ 23,857,827	
2045	\$ -	\$ 2,340,911	\$ -	\$ -	\$ 17,223,722	\$ 112,004	\$ 699,732	\$ 351	\$ 78,664	\$ 20,455,384	
2046	\$ -	\$ 3,373,528	\$ -	\$ -	\$ 14,394,266	\$ 112,961	\$ 1,120,310	\$ 681	\$ 77,049	\$ 19,078,796	
2047	\$ -	\$ 4,476,325	\$ -	\$ -	\$ 10,585,025	\$ 62,994	\$ 1,548,240	\$ 992	\$ 75,497	\$ 16,749,073	
2048	\$ -	\$ 1,842,011	\$ -	\$ -	\$ 9,179,639	\$ 16,162	\$ 814,905	\$ 321	\$ 71,754	\$ 11,924,792	
2049	\$ -	\$ 2,219,605	\$ -	\$ -	\$ 8,912,271	\$ 18,225	\$ 442,560	\$ -	\$ 69,794	\$ 11,662,455	
2050	\$ -	\$ 1,317,589	\$ -	\$ -	\$ 8,652,690	\$ 10,950	\$ 419,710	\$ -	\$ 67,318	\$ 10,468,258	
2051	\$ -	\$ 2,092,190	\$ -	\$ -	\$ 8,400,670	\$ 17,178	\$ 394,205	\$ -	\$ 65,788	\$ 10,970,032	
2052	\$ -	\$ 3,609,850	\$ -	\$ -	\$ 8,155,991	\$ 34,552	\$ 374,762	\$ -	\$ 64,707	\$ 12,239,862	
2053	\$ -	\$ 1,479,319	\$ -	\$ -	\$ 7,198,580	\$ 10,601	\$ 463,680	\$ 277	\$ 61,910	\$ 9,214,366	
2054	\$ -	\$ 1,701,803	\$ -	\$ -	\$ 6,290,021	\$ 15,721	\$ 433,984	\$ 269	\$ 60,254	\$ 8,502,052	
2055	\$ -	\$ 723,268	\$ -	\$ -	\$ 4,749,746	\$ 3,149	\$ 586,623	\$ 522	\$ 58,165	\$ 6,121,472	
2056	\$ -	\$ 1,403,483	\$ -	\$ -	\$ 4,611,404	\$ 14,818	\$ 394,145	\$ -	\$ 56,564	\$ 6,480,415	
2057	\$ -	\$ 2,189,104	\$ -	\$ -	\$ 3,197,922	\$ 17,418	\$ 604,249	\$ 492	\$ 55,637	\$ 6,064,823	
2058	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 1,066,142	\$ 1,195	\$ 53,317	\$ 1,120,653	
2059	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 689,452	\$ -	\$ 51,127	\$ 740,579	
2060	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 667,119	\$ -	\$ 49,638	\$ 716,757	
Total PV	\$ 892,953	\$ 72,890,470	\$ 22,557,871	\$ 2,630,869	\$ 385,975,822	\$ 2,693,069	\$ 15,100,988	\$ 9,372	\$ 1,851,667	\$ 504,603,081	
Annualized	\$ 51,280	\$ 4,185,945	\$ 1,295,451	\$ 151,085	\$ 22,165,770	\$ 154,657	\$ 867,218	\$ 538	\$ 106,337	\$ 28,978,281	

**C.18 Regulatory Alternative 2 Total Rule Costs by Rule Component (2008\$) - Period 2 (2036-2060) Present and Annualized Values Using a 7% Discount Rate**

Year	Rule Component									
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin	TOTAL
2036	\$ 260,255	\$ 2,042,214	\$ 6,574,602	\$ 766,780	\$ 12,474,551	\$ 86,239	\$ 3,973	\$ 265	\$ 40,068	\$ 22,248,947
2037	\$ 81,076	\$ 3,034,547	\$ 2,048,163	\$ 238,872	\$ 13,235,399	\$ 130,488	\$ 1,238	\$ 83	\$ 38,876	\$ 18,808,742
2038	\$ -	\$ 1,571,349	\$ -	\$ -	\$ 12,842,892	\$ 105,098	\$ -	\$ -	\$ 35,139	\$ 14,554,478
2039	\$ -	\$ 1,560,927	\$ -	\$ -	\$ 12,002,703	\$ 90,752	\$ -	\$ -	\$ 32,945	\$ 13,687,327
2040	\$ -	\$ 1,067,331	\$ -	\$ -	\$ 10,757,130	\$ 76,295	\$ 161,866	\$ 135	\$ 30,490	\$ 12,093,246
2041	\$ -	\$ 1,532,896	\$ -	\$ -	\$ 10,053,392	\$ 92,419	\$ 11,094	\$ -	\$ 28,984	\$ 11,718,784
2042	\$ -	\$ 2,154,835	\$ -	\$ -	\$ 8,993,607	\$ 92,979	\$ 151,748	\$ 118	\$ 27,928	\$ 11,421,214
2043	\$ -	\$ 1,028,701	\$ -	\$ -	\$ 6,902,110	\$ 52,858	\$ 547,903	\$ 440	\$ 25,253	\$ 8,557,265
2044	\$ -	\$ 908,112	\$ -	\$ -	\$ 5,396,975	\$ 31,767	\$ 425,309	\$ 308	\$ 23,506	\$ 6,785,978
2045	\$ -	\$ 640,917	\$ -	\$ -	\$ 4,715,679	\$ 30,666	\$ 191,579	\$ 96	\$ 21,630	\$ 5,600,567
2046	\$ -	\$ 889,109	\$ -	\$ -	\$ 3,793,676	\$ 29,771	\$ 295,263	\$ 180	\$ 20,602	\$ 5,028,600
2047	\$ -	\$ 1,135,653	\$ -	\$ -	\$ 2,685,443	\$ 15,982	\$ 392,792	\$ 252	\$ 19,708	\$ 4,249,830
2048	\$ -	\$ 449,852	\$ -	\$ -	\$ 2,241,832	\$ 3,947	\$ 199,014	\$ 78	\$ 17,615	\$ 2,912,340
2049	\$ -	\$ 521,803	\$ -	\$ -	\$ 2,095,171	\$ 4,284	\$ 104,041	\$ -	\$ 16,565	\$ 2,741,864
2050	\$ -	\$ 298,170	\$ -	\$ -	\$ 1,958,103	\$ 2,478	\$ 94,980	\$ -	\$ 15,249	\$ 2,368,981
2051	\$ -	\$ 455,763	\$ -	\$ -	\$ 1,830,003	\$ 3,742	\$ 85,874	\$ -	\$ 14,501	\$ 2,389,883
2052	\$ -	\$ 756,973	\$ -	\$ -	\$ 1,710,283	\$ 7,245	\$ 78,586	\$ -	\$ 14,031	\$ 2,567,119
2053	\$ -	\$ 298,611	\$ -	\$ -	\$ 1,453,087	\$ 2,140	\$ 93,597	\$ 56	\$ 12,640	\$ 1,860,132
2054	\$ -	\$ 330,680	\$ -	\$ -	\$ 1,222,223	\$ 3,055	\$ 84,328	\$ 52	\$ 11,907	\$ 1,652,244
2055	\$ -	\$ 135,285	\$ -	\$ -	\$ 888,428	\$ 589	\$ 109,726	\$ 98	\$ 10,963	\$ 1,145,089
2056	\$ -	\$ 252,704	\$ -	\$ -	\$ 830,306	\$ 2,668	\$ 70,968	\$ -	\$ 10,305	\$ 1,166,951
2057	\$ -	\$ 379,424	\$ -	\$ -	\$ 554,277	\$ 3,019	\$ 104,731	\$ 85	\$ 10,025	\$ 1,051,561
2058	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 177,880	\$ 199	\$ 9,021	\$ 187,101
2059	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 110,731	\$ -	\$ 8,108	\$ 118,839
2060	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 103,139	\$ -	\$ 7,577	\$ 110,716
Total PV	\$ 341,332	\$ 21,445,858	\$ 8,622,764	\$ 1,005,652	\$ 118,637,269	\$ 868,482	\$ 3,600,361	\$ 2,444	\$ 503,635	\$ 155,027,796
Annualized	\$ 29,290	\$ 1,840,280	\$ 739,924	\$ 86,296	\$ 10,180,325	\$ 74,525	\$ 308,949	\$ 210	\$ 43,217	\$ 13,303,015

**C.19 Regulatory Alternative 3 Total Rule Costs by Rule Component (2008\$) - Period 1 (2011-2035) Unadjusted Values**

Year	Rule Component										TOTAL
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin		
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,017,362	\$ 2,017,362	
2012	\$ 19,048,033	\$ 10,563,992	\$ 19,115,851	\$ 1,088,897	\$ 81,285	\$ -	\$ 14,377	\$ 479	\$ 213,492	\$ 50,126,405	
2013	\$ 19,048,033	\$ 11,324,187	\$ 19,115,851	\$ 1,088,897	\$ 2,872,651	\$ 93,395	\$ 14,377	\$ 479	\$ 213,671	\$ 53,771,541	
2014	\$ 38,096,066	\$ 22,648,374	\$ 38,231,702	\$ 2,177,794	\$ 5,745,302	\$ 186,789	\$ 28,753	\$ 958	\$ 218,744	\$ 107,334,483	
2015	\$ -	\$ 3,040,781	\$ -	\$ -	\$ 11,165,467	\$ 373,578	\$ -	\$ -	\$ 209,317	\$ 14,789,143	
2016	\$ 38,096,066	\$ 24,168,764	\$ 38,231,702	\$ 2,177,794	\$ 11,328,036	\$ 373,578	\$ 28,753	\$ 958	\$ 219,103	\$ 114,624,755	
2017	\$ 103,656,858	\$ 62,984,210	\$ 119,219,719	\$ 5,619,585	\$ 17,291,315	\$ 616,853	\$ 103,743	\$ 3,458	\$ 244,985	\$ 309,740,726	
2018	\$ -	\$ 10,027,558	\$ -	\$ -	\$ 33,656,635	\$ 1,236,988	\$ -	\$ -	\$ 212,364	\$ 45,133,546	
2019	\$ -	\$ 11,396,699	\$ -	\$ -	\$ 33,656,635	\$ 1,293,474	\$ -	\$ -	\$ 213,756	\$ 46,560,564	
2020	\$ -	\$ 8,658,418	\$ -	\$ -	\$ 33,656,635	\$ 1,180,502	\$ -	\$ -	\$ 210,973	\$ 43,706,527	
2021	\$ -	\$ 11,396,699	\$ -	\$ -	\$ 33,656,635	\$ 1,293,474	\$ -	\$ -	\$ 213,756	\$ 46,560,564	
2023	\$ -	\$ 9,731,287	\$ -	\$ -	\$ 30,705,034	\$ 1,083,826	\$ 219,924	\$ -	\$ 211,966	\$ 41,952,038	
2024	\$ -	\$ 11,100,428	\$ -	\$ -	\$ 30,705,034	\$ 1,140,312	\$ 219,924	\$ -	\$ 213,358	\$ 43,379,056	
2025	\$ -	\$ 8,362,147	\$ -	\$ -	\$ 30,705,034	\$ 1,027,340	\$ 219,924	\$ -	\$ 210,575	\$ 40,525,019	
2026	\$ -	\$ 11,100,428	\$ -	\$ -	\$ 30,705,034	\$ 1,140,312	\$ 782,317	\$ -	\$ 213,358	\$ 43,941,449	
2027	\$ -	\$ 16,576,990	\$ -	\$ -	\$ 30,705,034	\$ 1,366,258	\$ 219,924	\$ -	\$ 218,926	\$ 49,087,132	
2028	\$ -	\$ 9,731,287	\$ -	\$ -	\$ 30,705,034	\$ 1,083,826	\$ 219,924	\$ -	\$ 211,966	\$ 41,952,038	
2029	\$ 711,132	\$ 13,338,793	\$ 11,894,403	\$ 1,799,010	\$ 31,040,117	\$ 1,140,312	\$ 234,301	\$ 479	\$ 214,233	\$ 60,372,779	
2030	\$ -	\$ 8,631,117	\$ -	\$ -	\$ 34,109,049	\$ 1,330,114	\$ 219,924	\$ -	\$ 210,754	\$ 44,500,958	
2031	\$ 711,132	\$ 13,607,763	\$ 11,894,403	\$ 1,799,010	\$ 34,444,132	\$ 1,443,087	\$ 796,693	\$ 479	\$ 214,413	\$ 64,911,111	
2032	\$ 2,844,528	\$ 26,068,390	\$ 47,577,611	\$ 7,196,038	\$ 38,853,396	\$ 1,971,806	\$ 277,431	\$ 1,917	\$ 222,785	\$ 125,013,902	
2033	\$ 2,133,396	\$ 18,060,202	\$ 35,683,209	\$ 5,397,029	\$ 52,134,376	\$ 2,900,471	\$ 263,054	\$ 1,438	\$ 215,669	\$ 116,788,842	
2034	\$ 711,132	\$ 16,600,269	\$ 11,894,403	\$ 1,799,010	\$ 61,676,257	\$ 4,056,193	\$ 234,301	\$ 479	\$ 217,241	\$ 97,189,284	
2035	\$ 1,422,264	\$ 15,528,577	\$ 23,788,806	\$ 3,598,019	\$ 65,415,355	\$ 4,055,081	\$ 248,677	\$ 958	\$ 214,120	\$ 114,271,858	
<b>Total</b>	<b>\$ 226,478,640</b>	<b>\$ 371,224,349</b>	<b>\$ 376,647,659</b>	<b>\$ 33,741,082</b>	<b>\$ 715,718,514</b>	<b>\$ 31,753,826</b>	<b>\$ 5,213,291</b>	<b>\$ 14,208</b>	<b>\$ 7,197,009</b>	<b>\$ 1,767,988,578</b>	

**C.20 Regulatory Alternative 3 Total Rule Costs by Rule Component (2008\$) - Period 1 (2011-2035) Present and Annualized Values Using a 3% Discount Rate**

Year	Rule Component										<b>TOTAL</b>
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin		
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,017,362	\$ 2,017,362	
2012	\$ 18,493,236	\$ 10,256,303	\$ 18,559,079	\$ 1,057,182	\$ 78,917	\$ -	\$ 13,958	\$ 465	\$ 206,792	\$ 48,665,931	
2013	\$ 17,954,598	\$ 10,674,132	\$ 18,018,523	\$ 1,026,390	\$ 2,707,749	\$ 88,033	\$ 13,551	\$ 452	\$ 200,934	\$ 50,684,363	
2014	\$ 34,863,297	\$ 20,726,470	\$ 34,987,423	\$ 1,992,990	\$ 5,257,766	\$ 170,938	\$ 26,313	\$ 877	\$ 199,266	\$ 98,225,341	
2015	\$ -	\$ 2,701,694	\$ -	\$ -	\$ 9,920,373	\$ 331,919	\$ -	\$ -	\$ 185,961	\$ 13,139,947	
2016	\$ 32,862,002	\$ 20,848,188	\$ 32,979,002	\$ 1,878,584	\$ 9,771,663	\$ 322,252	\$ 24,803	\$ 827	\$ 188,130	\$ 98,875,450	
2017	\$ 86,810,986	\$ 52,748,284	\$ 99,844,638	\$ 4,706,314	\$ 14,481,204	\$ 516,605	\$ 86,883	\$ 2,896	\$ 203,046	\$ 259,400,857	
2018	\$ -	\$ 8,153,322	\$ -	\$ -	\$ 27,365,924	\$ 1,005,784	\$ -	\$ -	\$ 172,608	\$ 36,697,639	
2019	\$ -	\$ 8,996,659	\$ -	\$ -	\$ 26,568,859	\$ 1,021,081	\$ -	\$ -	\$ 168,654	\$ 36,755,252	
2020	\$ -	\$ 6,635,956	\$ -	\$ -	\$ 25,795,008	\$ 904,756	\$ -	\$ -	\$ 161,658	\$ 33,497,378	
2021	\$ -	\$ 8,480,214	\$ -	\$ -	\$ 25,043,697	\$ 962,466	\$ -	\$ -	\$ 158,972	\$ 34,645,350	
2022	\$ -	\$ 11,975,570	\$ -	\$ -	\$ 22,181,970	\$ 987,014	\$ 626,318	\$ 1,534	\$ 158,846	\$ 35,931,251	
2023	\$ -	\$ 6,825,329	\$ -	\$ -	\$ 21,535,893	\$ 760,174	\$ 154,250	\$ -	\$ 148,614	\$ 29,424,260	
2024	\$ -	\$ 7,558,851	\$ -	\$ -	\$ 20,908,634	\$ 776,497	\$ 149,758	\$ -	\$ 145,211	\$ 29,538,951	
2025	\$ -	\$ 5,528,364	\$ -	\$ -	\$ 20,299,645	\$ 679,192	\$ 145,396	\$ -	\$ 139,184	\$ 26,791,781	
2026	\$ -	\$ 7,124,942	\$ -	\$ -	\$ 19,708,393	\$ 731,923	\$ 502,139	\$ -	\$ 136,875	\$ 28,204,273	
2027	\$ -	\$ 10,330,232	\$ -	\$ -	\$ 19,134,362	\$ 851,407	\$ 137,049	\$ -	\$ 136,277	\$ 30,589,328	
2028	\$ -	\$ 5,887,589	\$ -	\$ -	\$ 18,577,050	\$ 655,733	\$ 133,058	\$ -	\$ 128,196	\$ 25,381,625	
2029	\$ 417,715	\$ 7,835,135	\$ 6,986,708	\$ 1,056,728	\$ 18,232,797	\$ 669,813	\$ 137,627	\$ 281	\$ 125,512	\$ 35,462,318	
2030	\$ -	\$ 4,922,205	\$ -	\$ -	\$ 19,451,914	\$ 758,545	\$ 125,420	\$ -	\$ 120,119	\$ 25,378,203	
2031	\$ 393,737	\$ 7,534,288	\$ 6,585,642	\$ 996,068	\$ 19,070,881	\$ 799,002	\$ 441,110	\$ 265	\$ 118,363	\$ 35,939,356	
2032	\$ 1,529,074	\$ 14,013,044	\$ 25,575,311	\$ 3,868,225	\$ 20,885,615	\$ 1,059,943	\$ 149,133	\$ 1,030	\$ 118,583	\$ 67,199,958	
2033	\$ 1,113,403	\$ 9,425,484	\$ 18,622,799	\$ 2,816,669	\$ 27,208,540	\$ 1,513,734	\$ 137,286	\$ 750	\$ 111,567	\$ 60,950,232	
2034	\$ 360,325	\$ 8,411,219	\$ 6,026,796	\$ 911,543	\$ 31,250,850	\$ 2,055,239	\$ 118,718	\$ 243	\$ 109,118	\$ 49,244,052	
2035	\$ 699,660	\$ 7,639,031	\$ 11,702,516	\$ 1,769,987	\$ 32,180,020	\$ 1,994,831	\$ 122,333	\$ 471	\$ 104,481	\$ 56,213,329	
Total PV	\$ 195,498,033	\$ 265,232,509	\$ 279,888,436	\$ 22,080,681	\$ 457,617,724	\$ 19,616,883	\$ 3,245,102	\$ 10,093	\$ 5,664,330	\$ 1,248,853,790	
Annualized	\$ 11,227,036	\$ 15,231,738	\$ 16,073,397	\$ 1,268,046	\$ 26,280,012	\$ 1,126,556	\$ 186,359	\$ 580	\$ 325,290	\$ 71,719,014	

**C.21 Regulatory Alternative 3 Total Rule Costs by Rule Component (2008\$) - Period 1 (2011-2035) Present and Annualized Values Using a 7% Discount Rate**

Year	Rule Component										TOTAL
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin		
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,017,362	\$ 2,017,362
2012	\$ 17,801,900	\$ 9,872,889	\$ 17,865,281	\$ 1,017,661	\$ 75,967	\$ -	\$ 13,436	\$ 448	\$ 199,590	\$ 46,847,172	
2013	\$ 16,637,290	\$ 9,890,983	\$ 16,696,524	\$ 951,085	\$ 2,509,085	\$ 81,574	\$ 12,557	\$ 419	\$ 186,758	\$ 46,966,275	
2014	\$ 31,097,738	\$ 18,487,819	\$ 31,208,457	\$ 1,777,729	\$ 4,689,878	\$ 152,475	\$ 23,471	\$ 782	\$ 178,928	\$ 87,617,279	
2015	\$ -	\$ 2,319,797	\$ -	\$ -	\$ 8,518,081	\$ 285,001	\$ -	\$ -	\$ 159,725	\$ 11,282,604	
2016	\$ 27,161,969	\$ 17,231,995	\$ 27,258,675	\$ 1,552,737	\$ 8,076,733	\$ 266,356	\$ 20,501	\$ 683	\$ 156,797	\$ 81,726,446	
2017	\$ 69,070,941	\$ 41,969,039	\$ 79,441,133	\$ 3,744,567	\$ 11,521,933	\$ 411,035	\$ 69,128	\$ 2,304	\$ 165,664	\$ 206,395,745	
2018	\$ -	\$ 6,244,659	\$ -	\$ -	\$ 20,959,661	\$ 770,334	\$ -	\$ -	\$ 132,552	\$ 28,107,206	
2019	\$ -	\$ 6,632,982	\$ -	\$ -	\$ 19,588,468	\$ 752,814	\$ -	\$ -	\$ 124,858	\$ 27,099,122	
2020	\$ -	\$ 4,709,606	\$ -	\$ -	\$ 18,306,979	\$ 642,115	\$ -	\$ -	\$ 114,978	\$ 23,773,678	
2021	\$ -	\$ 5,793,504	\$ -	\$ -	\$ 17,109,327	\$ 657,537	\$ -	\$ -	\$ 109,174	\$ 23,669,541	
2022	\$ -	\$ 7,875,609	\$ -	\$ -	\$ 14,587,740	\$ 649,099	\$ 411,891	\$ 1,009	\$ 105,777	\$ 23,631,126	
2023	\$ -	\$ 4,320,808	\$ -	\$ -	\$ 13,633,402	\$ 481,232	\$ 97,649	\$ -	\$ 94,479	\$ 18,627,569	
2024	\$ -	\$ 4,606,283	\$ -	\$ -	\$ 12,741,497	\$ 473,189	\$ 91,261	\$ -	\$ 89,066	\$ 18,001,296	
2025	\$ -	\$ 3,242,985	\$ -	\$ -	\$ 11,907,941	\$ 398,420	\$ 85,290	\$ -	\$ 81,891	\$ 15,716,527	
2026	\$ -	\$ 4,023,306	\$ -	\$ -	\$ 11,128,917	\$ 413,302	\$ 283,548	\$ -	\$ 77,888	\$ 15,926,960	
2027	\$ -	\$ 5,615,200	\$ -	\$ -	\$ 10,400,857	\$ 462,799	\$ 74,496	\$ -	\$ 75,388	\$ 16,628,740	
2028	\$ -	\$ 3,080,676	\$ -	\$ -	\$ 9,720,427	\$ 343,112	\$ 69,622	\$ -	\$ 67,510	\$ 13,281,348	
2029	\$ 210,398	\$ 3,946,468	\$ 3,519,125	\$ 532,262	\$ 9,183,650	\$ 337,377	\$ 69,321	\$ 142	\$ 63,965	\$ 17,862,708	
2030	\$ -	\$ 2,386,576	\$ -	\$ -	\$ 9,431,436	\$ 367,788	\$ 60,811	\$ -	\$ 58,518	\$ 12,305,129	
2031	\$ 183,770	\$ 3,516,505	\$ 3,073,740	\$ 464,898	\$ 8,901,018	\$ 372,921	\$ 205,881	\$ 124	\$ 55,997	\$ 16,774,853	
2032	\$ 686,991	\$ 6,295,857	\$ 11,490,616	\$ 1,737,937	\$ 9,383,604	\$ 476,217	\$ 67,003	\$ 463	\$ 55,086	\$ 30,193,774	
2033	\$ 481,536	\$ 4,076,425	\$ 8,054,170	\$ 1,218,180	\$ 11,767,415	\$ 654,674	\$ 59,375	\$ 325	\$ 49,097	\$ 26,361,197	
2034	\$ 150,011	\$ 3,501,775	\$ 2,509,087	\$ 379,495	\$ 13,010,414	\$ 855,641	\$ 49,425	\$ 101	\$ 46,416	\$ 20,502,366	
2035	\$ 280,395	\$ 3,061,406	\$ 4,689,883	\$ 709,337	\$ 12,896,416	\$ 799,445	\$ 49,026	\$ 189	\$ 42,457	\$ 22,528,554	
<b>Total PV</b>	<b>\$ 163,762,938</b>	<b>\$ 182,703,152</b>	<b>\$ 205,806,690</b>	<b>\$ 14,085,889</b>	<b>\$ 270,050,850</b>	<b>\$ 11,104,457</b>	<b>\$ 1,813,692</b>	<b>\$ 6,989</b>	<b>\$ 4,509,921</b>	<b>\$ 853,844,578</b>	
<b>Annualized</b>	<b>\$ 14,052,582</b>	<b>\$ 15,677,852</b>	<b>\$ 17,660,379</b>	<b>\$ 1,208,717</b>	<b>\$ 23,173,203</b>	<b>\$ 952,879</b>	<b>\$ 155,634</b>	<b>\$ 600</b>	<b>\$ 386,999</b>	<b>\$ 73,268,845</b>	

**C.22 Regulatory Alternative 3 Total Rule Costs by Rule Component (2008\$) - Period 2 (2036-2060) Unadjusted Values**

Year	Rule Component										TOTAL
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin		
2036	\$ 2,133,396	\$ 21,883,909	\$ 35,683,209	\$ 5,397,029	\$ 72,558,469	\$ 4,964,515	\$ 825,447	\$ 1,438	\$ 219,530	\$ 143,666,940	
2037	\$ 711,132	\$ 26,212,888	\$ 11,894,403	\$ 1,799,010	\$ 82,100,350	\$ 6,671,522	\$ 234,301	\$ 479	\$ 228,062	\$ 129,852,147	
2038	\$ -	\$ 16,557,045	\$ -	\$ -	\$ 85,169,283	\$ 6,500,951	\$ 219,924	\$ -	\$ 219,015	\$ 108,666,218	
2039	\$ -	\$ 17,085,439	\$ -	\$ -	\$ 85,169,283	\$ 6,366,525	\$ 219,924	\$ -	\$ 219,015	\$ 109,060,186	
2040	\$ -	\$ 14,078,188	\$ -	\$ -	\$ 81,765,268	\$ 5,950,778	\$ 1,835,028	\$ 958	\$ 216,591	\$ 103,846,811	
2041	\$ -	\$ 18,497,961	\$ -	\$ -	\$ 81,765,268	\$ 6,445,576	\$ 967,086	\$ -	\$ 221,620	\$ 107,897,510	
2042	\$ -	\$ 24,546,299	\$ -	\$ -	\$ 78,361,252	\$ 6,559,661	\$ 2,019,798	\$ 958	\$ 228,938	\$ 111,716,906	
2043	\$ -	\$ 14,943,225	\$ -	\$ -	\$ 64,745,190	\$ 4,684,306	\$ 7,049,881	\$ 3,834	\$ 220,093	\$ 91,646,528	
2044	\$ -	\$ 13,823,964	\$ -	\$ -	\$ 54,533,143	\$ 3,450,644	\$ 6,851,601	\$ 2,875	\$ 217,624	\$ 78,879,850	
2045	\$ -	\$ 11,657,459	\$ -	\$ -	\$ 51,129,127	\$ 3,225,810	\$ 3,497,952	\$ 958	\$ 214,975	\$ 69,726,282	
2046	\$ -	\$ 14,698,546	\$ -	\$ -	\$ 44,321,096	\$ 2,924,148	\$ 6,537,966	\$ 1,917	\$ 219,330	\$ 68,703,002	
2048	\$ -	\$ 9,731,287	\$ -	\$ -	\$ 30,705,034	\$ 1,083,826	\$ 6,639,810	\$ 958	\$ 212,505	\$ 48,373,421	
2049	\$ -	\$ 11,100,428	\$ -	\$ -	\$ 30,705,034	\$ 1,140,312	\$ 4,531,727	\$ -	\$ 213,358	\$ 47,690,860	
2050	\$ -	\$ 8,362,147	\$ -	\$ -	\$ 30,705,034	\$ 1,027,340	\$ 4,531,727	\$ -	\$ 210,575	\$ 44,836,822	
2051	\$ -	\$ 11,100,428	\$ -	\$ -	\$ 30,705,034	\$ 1,140,312	\$ 6,449,614	\$ -	\$ 213,358	\$ 49,608,746	
2052	\$ -	\$ 16,576,990	\$ -	\$ -	\$ 30,705,034	\$ 1,366,258	\$ 6,564,969	\$ -	\$ 218,926	\$ 55,432,176	
2053	\$ -	\$ 8,971,092	\$ -	\$ -	\$ 27,913,667	\$ 990,431	\$ 6,183,066	\$ 958	\$ 212,326	\$ 44,271,541	
2054	\$ -	\$ 9,580,038	\$ -	\$ -	\$ 25,122,300	\$ 953,523	\$ 6,092,984	\$ 958	\$ 213,538	\$ 41,963,342	
2055	\$ -	\$ 5,321,366	\$ -	\$ -	\$ 19,539,567	\$ 653,762	\$ 7,654,241	\$ 1,917	\$ 210,934	\$ 33,381,786	
2056	\$ -	\$ 8,059,647	\$ -	\$ -	\$ 19,539,567	\$ 766,734	\$ 8,800,275	\$ -	\$ 212,640	\$ 37,378,863	
2057	\$ -	\$ 10,646,678	\$ -	\$ -	\$ 13,956,834	\$ 749,405	\$ 12,180,184	\$ 1,917	\$ 217,534	\$ 37,752,552	
2058	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 14,920,795	\$ 4,792	\$ 211,293	\$ 15,136,881	
2059	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 13,630,788	\$ -	\$ 208,599	\$ 13,839,387	
2060	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 10,996,044	\$ -	\$ 208,599	\$ 11,204,643	
<b>Total</b>	<b>\$ 2,844,528</b>	<b>\$ 311,121,730</b>	<b>\$ 47,577,611</b>	<b>\$ 7,196,038</b>	<b>\$ 1,075,323,883</b>	<b>\$ 69,476,285</b>	<b>\$ 149,428,590</b>	<b>\$ 27,795</b>	<b>\$ 5,411,089</b>	<b>\$ 1,668,407,548</b>	

C.23 Regulatory Alternative 3 Total Rule Costs by Rule Component (2008\$) - Period 2 (2036-2060) Present and Annualized Values Using a 3% Discount Rate

Year	Rule Component									
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin	TOTAL
2036	\$ 1,018,922	\$ 10,451,877	\$ 17,042,499	\$ 2,577,651	\$ 34,654,329	\$ 2,371,080	\$ 394,238	\$ 687	\$ 104,849	\$ 68,616,131
2037	\$ 329,748	\$ 12,154,778	\$ 5,515,372	\$ 834,191	\$ 38,069,500	\$ 3,093,550	\$ 108,644	\$ 222	\$ 105,139	\$ 60,211,143
2038	\$ -	\$ 7,453,800	\$ -	\$ -	\$ 38,342,279	\$ 2,926,657	\$ 99,007	\$ -	\$ 98,519	\$ 48,920,263
2039	\$ -	\$ 7,467,648	\$ -	\$ -	\$ 37,225,514	\$ 2,782,660	\$ 96,124	\$ -	\$ 95,904	\$ 47,667,850
2040	\$ -	\$ 5,974,028	\$ -	\$ -	\$ 34,696,794	\$ 2,525,191	\$ 778,688	\$ 407	\$ 92,042	\$ 44,067,149
2041	\$ -	\$ 7,620,915	\$ -	\$ -	\$ 33,686,208	\$ 2,655,492	\$ 398,427	\$ -	\$ 90,998	\$ 44,452,039
2042	\$ -	\$ 9,818,204	\$ -	\$ -	\$ 31,343,493	\$ 2,623,780	\$ 807,893	\$ 383	\$ 90,913	\$ 44,684,667
2043	\$ -	\$ 5,803,008	\$ -	\$ -	\$ 25,142,955	\$ 1,819,090	\$ 2,737,730	\$ 1,489	\$ 85,217	\$ 35,589,487
2044	\$ -	\$ 5,211,997	\$ -	\$ -	\$ 20,560,426	\$ 1,300,983	\$ 2,583,233	\$ 1,084	\$ 82,435	\$ 29,740,159
2045	\$ -	\$ 4,267,153	\$ -	\$ -	\$ 18,715,556	\$ 1,180,791	\$ 1,280,408	\$ 351	\$ 79,066	\$ 25,523,326
2046	\$ -	\$ 5,223,619	\$ -	\$ -	\$ 15,750,982	\$ 1,039,194	\$ 2,323,485	\$ 681	\$ 78,041	\$ 24,416,001
2047	\$ -	\$ 6,102,487	\$ -	\$ -	\$ 11,768,728	\$ 641,741	\$ 3,448,067	\$ 992	\$ 77,109	\$ 22,039,124
2048	\$ -	\$ 3,259,815	\$ -	\$ -	\$ 10,285,662	\$ 363,063	\$ 2,224,223	\$ 321	\$ 72,091	\$ 16,205,175
2049	\$ -	\$ 3,610,149	\$ -	\$ -	\$ 9,986,080	\$ 370,859	\$ 1,473,836	\$ -	\$ 70,335	\$ 15,511,260
2050	\$ -	\$ 2,640,378	\$ -	\$ -	\$ 9,695,223	\$ 324,386	\$ 1,430,909	\$ -	\$ 67,428	\$ 14,158,324
2051	\$ -	\$ 3,402,912	\$ -	\$ -	\$ 9,412,838	\$ 349,571	\$ 1,977,173	\$ -	\$ 66,298	\$ 15,208,792
2052	\$ -	\$ 4,933,776	\$ -	\$ -	\$ 9,138,678	\$ 406,637	\$ 1,953,918	\$ -	\$ 65,985	\$ 16,498,995
2053	\$ -	\$ 2,592,280	\$ -	\$ -	\$ 8,065,912	\$ 286,194	\$ 1,786,654	\$ 277	\$ 62,201	\$ 12,793,517
2054	\$ -	\$ 2,687,612	\$ -	\$ -	\$ 7,047,884	\$ 267,504	\$ 1,709,344	\$ 269	\$ 60,721	\$ 11,773,334
2055	\$ -	\$ 1,449,390	\$ -	\$ -	\$ 5,322,027	\$ 178,066	\$ 2,084,799	\$ 522	\$ 58,260	\$ 9,093,064
2056	\$ -	\$ 2,131,282	\$ -	\$ -	\$ 5,167,016	\$ 202,754	\$ 2,327,133	\$ -	\$ 57,003	\$ 9,885,188
2057	\$ -	\$ 2,733,391	\$ -	\$ -	\$ 3,583,229	\$ 192,400	\$ 3,127,098	\$ 492	\$ 56,570	\$ 9,693,181
2058	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 3,719,139	\$ 1,195	\$ 53,403	\$ 3,773,737
2059	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 3,298,634	\$ -	\$ 51,211	\$ 3,349,845
2060	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 2,583,524	\$ -	\$ 49,720	\$ 2,633,243
Total PV	\$ 1,348,670	\$ 116,990,500	\$ 22,557,871	\$ 3,411,842	\$ 417,661,313	\$ 27,901,643	\$ 44,752,327	\$ 9,372	\$ 1,871,458	\$ 636,504,996
Annualized	\$ 77,451	\$ 6,718,515	\$ 1,295,451	\$ 195,935	\$ 23,985,400	\$ 1,602,332	\$ 2,570,031	\$ 538	\$ 107,474	\$ 36,553,127

**C.24 Regulatory Alternative 3 Total Rule Costs by Rule Component (2008\$) - Period 2 (2036-2060) Present and Annualized Values Using a 7% Discount Rate**

Year	Rule Component										TOTAL
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin		
2036	\$ 393,076	\$ 4,032,092	\$ 6,574,602	\$ 994,398	\$ 13,368,838	\$ 914,708	\$ 152,088	\$ 265	\$ 40,448	\$ 26,470,516	
2037	\$ 122,454	\$ 4,513,741	\$ 2,048,163	\$ 309,781	\$ 14,137,310	\$ 1,148,806	\$ 40,346	\$ 83	\$ 40,532	\$ 22,361,215	
2038	\$ -	\$ 2,664,531	\$ -	\$ -	\$ 13,706,324	\$ 1,046,200	\$ 35,392	\$ -	\$ 35,654	\$ 17,488,102	
2039	\$ -	\$ 2,569,688	\$ -	\$ -	\$ 12,809,649	\$ 957,539	\$ 33,077	\$ -	\$ 33,512	\$ 16,403,465	
2040	\$ -	\$ 1,978,870	\$ -	\$ -	\$ 11,493,156	\$ 836,458	\$ 257,937	\$ 135	\$ 30,679	\$ 14,597,235	
2041	\$ -	\$ 2,430,024	\$ -	\$ -	\$ 10,741,267	\$ 846,737	\$ 127,043	\$ -	\$ 29,673	\$ 14,174,744	
2042	\$ -	\$ 3,013,623	\$ -	\$ -	\$ 9,620,647	\$ 805,349	\$ 247,977	\$ 118	\$ 29,306	\$ 13,717,019	
2043	\$ -	\$ 1,714,602	\$ -	\$ -	\$ 7,428,936	\$ 537,483	\$ 808,911	\$ 440	\$ 25,640	\$ 10,516,012	
2044	\$ -	\$ 1,482,409	\$ -	\$ -	\$ 5,847,845	\$ 370,029	\$ 734,729	\$ 308	\$ 23,875	\$ 8,459,195	
2045	\$ -	\$ 1,168,303	\$ -	\$ -	\$ 5,124,128	\$ 323,289	\$ 350,563	\$ 96	\$ 21,765	\$ 6,988,142	
2046	\$ -	\$ 1,376,709	\$ -	\$ -	\$ 4,151,244	\$ 273,884	\$ 612,365	\$ 180	\$ 21,065	\$ 6,435,447	
2047	\$ -	\$ 1,548,214	\$ -	\$ -	\$ 2,985,751	\$ 162,811	\$ 874,782	\$ 252	\$ 20,556	\$ 5,592,366	
2048	\$ -	\$ 796,105	\$ -	\$ -	\$ 2,511,943	\$ 88,667	\$ 543,195	\$ 78	\$ 17,742	\$ 3,957,730	
2049	\$ -	\$ 848,704	\$ -	\$ -	\$ 2,347,610	\$ 87,185	\$ 346,482	\$ -	\$ 16,809	\$ 3,646,789	
2050	\$ -	\$ 597,517	\$ -	\$ -	\$ 2,194,028	\$ 73,409	\$ 323,815	\$ -	\$ 15,249	\$ 3,204,018	
2051	\$ -	\$ 741,291	\$ -	\$ -	\$ 2,050,494	\$ 76,150	\$ 430,708	\$ -	\$ 14,726	\$ 3,313,369	
2052	\$ -	\$ 1,034,596	\$ -	\$ -	\$ 1,916,349	\$ 85,270	\$ 409,730	\$ -	\$ 14,681	\$ 3,460,626	
2053	\$ -	\$ 523,271	\$ -	\$ -	\$ 1,628,164	\$ 57,770	\$ 360,649	\$ 56	\$ 12,745	\$ 2,582,656	
2054	\$ -	\$ 522,234	\$ -	\$ -	\$ 1,369,484	\$ 51,979	\$ 332,145	\$ 52	\$ 12,108	\$ 2,288,002	
2055	\$ -	\$ 271,105	\$ -	\$ -	\$ 995,471	\$ 33,307	\$ 389,956	\$ 98	\$ 10,963	\$ 1,700,899	
2056	\$ -	\$ 383,748	\$ -	\$ -	\$ 930,347	\$ 36,507	\$ 419,012	\$ -	\$ 10,491	\$ 1,780,105	
2057	\$ -	\$ 473,762	\$ -	\$ -	\$ 621,059	\$ 33,347	\$ 542,001	\$ 85	\$ 10,474	\$ 1,680,729	
2058	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 620,518	\$ 199	\$ 9,021	\$ 629,739	
2059	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 529,785	\$ -	\$ 8,108	\$ 537,893	
2060	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 399,421	\$ -	\$ 7,577	\$ 406,999	
Total PV	\$ 515,530	\$ 34,685,138	\$ 8,622,764	\$ 1,304,179	\$ 127,980,047	\$ 8,846,884	\$ 9,922,627	\$ 2,444	\$ 513,398	\$ 192,393,012	
Annualized	\$ 44,238	\$ 2,976,350	\$ 739,924	\$ 111,912	\$ 10,982,034	\$ 759,156	\$ 851,466	\$ 210	\$ 44,055	\$ 16,509,344	

**C.25 Regulatory Alternative 4 Total Rule Costs by Rule Component (2008\$) - Period 1 (2011-2035) Unadjusted Values**

Year	Rule Component										<b>TOTAL</b>
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin		
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,017,362	\$ 2,017,362	
2012	\$ 24,038,186	\$ 10,060,452	\$ 18,665,207	\$ 1,319,962	\$ 87,677	\$ -	\$ 13,620	\$ 454	\$ 212,682	\$ 54,398,242	
2013	\$ 24,038,186	\$ 10,782,319	\$ 18,665,207	\$ 1,319,962	\$ 2,782,978	\$ 344,859	\$ 13,620	\$ 454	\$ 213,200	\$ 58,160,787	
2014	\$ 48,076,373	\$ 21,564,638	\$ 37,330,415	\$ 2,639,925	\$ 5,565,957	\$ 689,718	\$ 27,240	\$ 908	\$ 217,801	\$ 116,112,974	
2015	\$ -	\$ 2,887,467	\$ -	\$ -	\$ 10,781,206	\$ 1,379,436	\$ -	\$ -	\$ 210,669	\$ 15,258,779	
2016	\$ 48,076,373	\$ 23,008,372	\$ 37,330,415	\$ 2,639,925	\$ 10,956,560	\$ 1,379,436	\$ 27,240	\$ 908	\$ 218,836	\$ 123,638,064	
2017	\$ 132,032,756	\$ 61,447,411	\$ 117,535,211	\$ 6,822,445	\$ 16,765,605	\$ 2,069,155	\$ 99,960	\$ 3,332	\$ 243,034	\$ 337,018,909	
2018	\$ -	\$ 10,806,737	\$ -	\$ -	\$ 32,644,115	\$ 4,398,466	\$ -	\$ -	\$ 216,863	\$ 48,066,181	
2019	\$ -	\$ 13,352,845	\$ -	\$ -	\$ 32,644,115	\$ 4,398,466	\$ -	\$ -	\$ 218,224	\$ 50,613,651	
2020	\$ -	\$ 8,260,628	\$ -	\$ -	\$ 32,644,115	\$ 4,398,466	\$ -	\$ -	\$ 215,502	\$ 45,518,712	
2021	\$ -	\$ 13,352,845	\$ -	\$ -	\$ 32,644,115	\$ 4,398,466	\$ -	\$ -	\$ 218,224	\$ 50,613,651	
2022	\$ -	\$ 23,217,184	\$ -	\$ -	\$ 29,648,317	\$ 3,793,450	\$ 866,970	\$ 2,124	\$ 223,652	\$ 57,751,697	
2023	\$ -	\$ 10,486,643	\$ -	\$ -	\$ 29,648,317	\$ 3,793,450	\$ 219,924	\$ -	\$ 215,653	\$ 44,363,987	
2024	\$ -	\$ 13,032,751	\$ -	\$ -	\$ 29,648,317	\$ 3,793,450	\$ 219,924	\$ -	\$ 217,014	\$ 46,911,457	
2025	\$ -	\$ 7,940,535	\$ -	\$ -	\$ 29,648,317	\$ 3,793,450	\$ 219,924	\$ -	\$ 214,292	\$ 41,816,518	
2026	\$ -	\$ 13,032,751	\$ -	\$ -	\$ 29,648,317	\$ 3,793,450	\$ 1,334,089	\$ -	\$ 217,014	\$ 48,025,622	
2027	\$ -	\$ 23,217,184	\$ -	\$ -	\$ 29,648,317	\$ 3,793,450	\$ 219,924	\$ -	\$ 222,458	\$ 57,101,334	
2028	\$ -	\$ 10,486,643	\$ -	\$ -	\$ 29,648,317	\$ 3,793,450	\$ 219,924	\$ -	\$ 215,653	\$ 44,363,987	
2029	\$ 924,833	\$ 15,178,055	\$ 11,348,254	\$ 1,704,966	\$ 30,012,091	\$ 3,793,450	\$ 233,544	\$ 454	\$ 217,014	\$ 63,412,660	
2030	\$ -	\$ 8,202,510	\$ -	\$ -	\$ 32,915,266	\$ 4,868,226	\$ 219,924	\$ -	\$ 214,809	\$ 46,420,735	
2031	\$ 924,833	\$ 15,440,030	\$ 11,348,254	\$ 1,704,966	\$ 33,279,040	\$ 4,868,226	\$ 1,347,709	\$ 454	\$ 217,531	\$ 69,131,042	
2032	\$ 3,699,330	\$ 32,322,348	\$ 45,393,014	\$ 6,819,864	\$ 37,637,309	\$ 5,943,002	\$ 274,404	\$ 1,816	\$ 223,493	\$ 132,314,581	
2033	\$ 2,774,498	\$ 18,494,403	\$ 34,044,761	\$ 5,114,898	\$ 50,341,331	\$ 10,242,107	\$ 260,784	\$ 1,362	\$ 218,758	\$ 121,492,901	
2034	\$ 924,833	\$ 19,005,544	\$ 11,348,254	\$ 1,704,966	\$ 59,414,631	\$ 13,466,435	\$ 233,544	\$ 454	\$ 223,033	\$ 106,321,692	
2035	\$ 1,849,665	\$ 14,850,891	\$ 22,696,507	\$ 3,409,932	\$ 63,045,353	\$ 14,541,211	\$ 247,164	\$ 908	\$ 219,467	\$ 120,861,098	
<b>Total</b>	<b>\$ 287,359,865</b>	<b>\$ 400,431,186</b>	<b>\$ 365,705,497</b>	<b>\$ 35,201,810</b>	<b>\$ 691,699,684</b>	<b>\$ 107,733,280</b>	<b>\$ 6,299,433</b>	<b>\$ 13,628</b>	<b>\$ 7,262,240</b>	<b>\$ 1,901,706,622</b>	

**C.26 Regulatory Alternative 4 Total Rule Costs by Rule Component (2008\$) - Period 1 (2011-2035) Present and Annualized Values Using a 3% Discount Rate**

Year	Rule Component										<b>TOTAL</b>
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin		
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,017,362	\$ 2,017,362
2012	\$ 23,338,045	\$ 9,767,429	\$ 18,121,560	\$ 1,281,517	\$ 85,123	\$ -	\$ 13,223	\$ 441	\$ 206,488	\$ 52,813,827	
2013	\$ 22,658,296	\$ 10,163,370	\$ 17,593,748	\$ 1,244,191	\$ 2,623,224	\$ 325,063	\$ 12,838	\$ 428	\$ 200,961	\$ 54,822,119	
2014	\$ 43,996,691	\$ 19,734,699	\$ 34,162,618	\$ 2,415,905	\$ 5,093,639	\$ 631,190	\$ 24,929	\$ 831	\$ 199,319	\$ 106,259,820	
2015	\$ -	\$ 2,565,477	\$ -	\$ -	\$ 9,578,962	\$ 1,225,611	\$ -	\$ -	\$ 187,177	\$ 13,557,228	
2016	\$ 41,471,101	\$ 19,847,224	\$ 32,201,544	\$ 2,277,222	\$ 9,451,225	\$ 1,189,914	\$ 23,498	\$ 783	\$ 188,770	\$ 106,651,280	
2017	\$ 110,575,354	\$ 51,461,240	\$ 98,433,889	\$ 5,713,690	\$ 14,040,931	\$ 1,732,885	\$ 83,715	\$ 2,790	\$ 203,537	\$ 282,248,030	
2018	\$ -	\$ 8,786,866	\$ -	\$ -	\$ 26,542,653	\$ 3,576,356	\$ -	\$ -	\$ 176,330	\$ 39,082,204	
2019	\$ -	\$ 10,540,859	\$ -	\$ -	\$ 25,769,566	\$ 3,472,190	\$ -	\$ -	\$ 172,268	\$ 39,954,883	
2020	\$ -	\$ 6,331,084	\$ -	\$ -	\$ 25,018,996	\$ 3,371,058	\$ -	\$ -	\$ 165,165	\$ 34,886,303	
2021	\$ -	\$ 9,935,770	\$ -	\$ -	\$ 24,290,287	\$ 3,272,872	\$ -	\$ -	\$ 162,380	\$ 37,661,309	
2022	\$ -	\$ 16,772,587	\$ -	\$ -	\$ 21,418,575	\$ 2,740,469	\$ 626,318	\$ 1,534	\$ 161,571	\$ 41,721,055	
2023	\$ -	\$ 7,355,120	\$ -	\$ -	\$ 20,794,733	\$ 2,660,650	\$ 154,250	\$ -	\$ 151,255	\$ 31,116,008	
2024	\$ -	\$ 8,874,669	\$ -	\$ -	\$ 20,189,061	\$ 2,583,155	\$ 149,758	\$ -	\$ 147,776	\$ 31,944,419	
2025	\$ -	\$ 5,249,629	\$ -	\$ -	\$ 19,601,030	\$ 2,507,918	\$ 145,396	\$ -	\$ 141,672	\$ 27,645,645	
2026	\$ -	\$ 8,365,227	\$ -	\$ -	\$ 19,030,127	\$ 2,434,871	\$ 856,301	\$ -	\$ 139,293	\$ 30,825,819	
2027	\$ -	\$ 14,468,181	\$ -	\$ -	\$ 18,475,851	\$ 2,363,953	\$ 137,049	\$ -	\$ 138,629	\$ 35,583,663	
2028	\$ -	\$ 6,344,591	\$ -	\$ -	\$ 17,937,720	\$ 2,295,100	\$ 133,058	\$ -	\$ 130,473	\$ 26,840,942	
2029	\$ 543,242	\$ 8,915,508	\$ 6,665,903	\$ 1,001,488	\$ 17,628,940	\$ 2,228,252	\$ 137,183	\$ 267	\$ 127,473	\$ 37,248,254	
2030	\$ -	\$ 4,677,777	\$ -	\$ -	\$ 18,771,116	\$ 2,776,281	\$ 125,420	\$ -	\$ 122,372	\$ 26,472,966	
2031	\$ 512,057	\$ 8,548,770	\$ 6,283,253	\$ 943,998	\$ 18,425,797	\$ 2,695,419	\$ 746,194	\$ 251	\$ 120,315	\$ 38,276,055	
2032	\$ 1,988,572	\$ 17,374,855	\$ 24,400,982	\$ 3,666,013	\$ 20,231,908	\$ 3,194,657	\$ 147,506	\$ 976	\$ 119,893	\$ 71,125,361	
2033	\$ 1,447,990	\$ 9,652,090	\$ 17,767,705	\$ 2,669,427	\$ 26,272,763	\$ 5,345,279	\$ 136,101	\$ 711	\$ 113,452	\$ 63,405,517	
2034	\$ 468,605	\$ 9,629,952	\$ 5,750,066	\$ 863,892	\$ 30,104,903	\$ 6,823,331	\$ 118,335	\$ 230	\$ 111,661	\$ 53,870,976	
2035	\$ 909,913	\$ 7,305,654	\$ 11,165,178	\$ 1,677,461	\$ 31,014,136	\$ 7,153,312	\$ 121,588	\$ 447	\$ 106,838	\$ 59,454,526	
Total PV	\$ 247,909,867	\$ 282,668,630	\$ 272,546,445	\$ 23,754,804	\$ 442,391,267	\$ 66,599,785	\$ 3,892,658	\$ 9,690	\$ 5,712,427	\$ 1,345,485,573	
Annualized	\$ 14,236,936	\$ 16,233,058	\$ 15,651,762	\$ 1,364,188	\$ 25,405,589	\$ 3,824,684	\$ 223,547	\$ 556	\$ 328,053	\$ 77,268,372	

**C.27 Regulatory Alternative 4 Total Rule Costs by Rule Component (2008\$) - Period 1 (2011-2035) Present and Annualized Values Using a 7% Discount Rate**

Year	Rule Component									<b>TOTAL</b>
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin	
2012	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,017,362	\$ 2,017,362
2013	\$ 22,465,595	\$ 9,402,292	\$ 17,444,119	\$ 1,233,610	\$ 81,941	\$ -	\$ 12,729	\$ 424	\$ 198,834	\$ 50,839,544
2014	\$ 20,995,883	\$ 9,417,695	\$ 16,302,915	\$ 1,152,906	\$ 2,430,761	\$ 301,213	\$ 11,896	\$ 397	\$ 186,358	\$ 50,800,024
2015	\$ 39,244,641	\$ 17,603,169	\$ 30,472,738	\$ 2,154,965	\$ 4,543,479	\$ 563,016	\$ 22,236	\$ 741	\$ 178,192	\$ 94,783,176
2016	\$ -	\$ 2,202,835	\$ -	\$ -	\$ 8,224,931	\$ 1,052,365	\$ -	\$ -	\$ 160,833	\$ 11,640,964
2017	\$ 34,277,789	\$ 16,404,651	\$ 26,616,070	\$ 1,882,230	\$ 7,811,876	\$ 983,519	\$ 19,422	\$ 647	\$ 156,704	\$ 88,152,908
2018	\$ 87,979,000	\$ 40,945,005	\$ 78,318,674	\$ 4,546,083	\$ 11,171,631	\$ 1,378,765	\$ 66,607	\$ 2,220	\$ 164,549	\$ 224,572,534
2019	\$ -	\$ 6,729,892	\$ -	\$ -	\$ 20,329,114	\$ 2,739,144	\$ -	\$ -	\$ 135,747	\$ 29,933,897
2020	\$ -	\$ 7,771,477	\$ -	\$ -	\$ 18,999,172	\$ 2,559,947	\$ -	\$ -	\$ 127,891	\$ 29,458,488
2021	\$ -	\$ 4,493,235	\$ -	\$ -	\$ 17,756,236	\$ 2,392,474	\$ -	\$ -	\$ 117,898	\$ 24,759,842
2022	\$ -	\$ 6,787,909	\$ -	\$ -	\$ 16,594,613	\$ 2,235,957	\$ -	\$ -	\$ 111,937	\$ 25,730,417
2023	\$ -	\$ 11,030,317	\$ -	\$ -	\$ 14,085,702	\$ 1,802,241	\$ 411,891	\$ 1,009	\$ 107,902	\$ 27,439,061
2024	\$ -	\$ 4,656,195	\$ -	\$ -	\$ 13,164,207	\$ 1,684,337	\$ 97,649	\$ -	\$ 96,555	\$ 19,698,944
2025	\$ -	\$ 5,408,128	\$ -	\$ -	\$ 12,302,998	\$ 1,574,147	\$ 91,261	\$ -	\$ 91,043	\$ 19,467,576
2026	\$ -	\$ 3,079,476	\$ -	\$ -	\$ 11,498,129	\$ 1,471,165	\$ 85,290	\$ -	\$ 83,794	\$ 16,217,854
2027	\$ -	\$ 4,723,669	\$ -	\$ -	\$ 10,745,915	\$ 1,374,921	\$ 483,535	\$ -	\$ 79,695	\$ 17,407,735
2028	\$ -	\$ 7,864,463	\$ -	\$ -	\$ 10,042,911	\$ 1,284,973	\$ 74,496	\$ -	\$ 77,097	\$ 19,343,940
2029	\$ -	\$ 3,319,803	\$ -	\$ -	\$ 9,385,898	\$ 1,200,909	\$ 69,622	\$ -	\$ 69,170	\$ 14,045,402
2030	\$ 273,625	\$ 4,490,639	\$ 3,357,539	\$ 504,438	\$ 8,879,495	\$ 1,122,345	\$ 69,097	\$ 134	\$ 65,291	\$ 18,762,602
2031	\$ -	\$ 2,268,062	\$ -	\$ -	\$ 9,101,345	\$ 1,346,105	\$ 60,811	\$ -	\$ 60,136	\$ 12,836,459
2032	\$ 238,994	\$ 3,989,997	\$ 2,932,604	\$ 440,596	\$ 8,599,936	\$ 1,258,042	\$ 348,274	\$ 117	\$ 57,313	\$ 17,865,873
2033	\$ 893,437	\$ 7,806,270	\$ 10,963,007	\$ 1,647,086	\$ 9,089,903	\$ 1,435,313	\$ 66,272	\$ 439	\$ 55,790	\$ 31,957,517
2034	\$ 626,241	\$ 4,174,430	\$ 7,684,351	\$ 1,154,500	\$ 11,362,701	\$ 2,311,778	\$ 58,862	\$ 307	\$ 50,300	\$ 27,423,471
2035	\$ 195,091	\$ 4,009,160	\$ 2,393,879	\$ 359,657	\$ 12,533,331	\$ 2,840,702	\$ 49,265	\$ 96	\$ 48,148	\$ 22,429,330
2036	\$ 364,655	\$ 2,927,803	\$ 4,474,540	\$ 672,257	\$ 12,429,178	\$ 2,866,751	\$ 48,728	\$ 179	\$ 44,009	\$ 23,828,099
Total PV	\$ 207,554,950	\$ 191,506,573	\$ 200,960,435	\$ 15,748,327	\$ 261,165,401	\$ 37,780,132	\$ 2,147,944	\$ 6,711	\$ 4,542,548	\$ 921,413,020
Annualized	\$ 17,810,398	\$ 16,433,278	\$ 17,244,519	\$ 1,351,372	\$ 22,410,738	\$ 3,241,933	\$ 184,316	\$ 576	\$ 389,798	\$ 79,066,928

**C.28 Regulatory Alternative 4 Total Rule Costs by Rule Component (2008\$) - Period 2 (2036-2060) Unadjusted Values**

Year	Rule Component									
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin	TOTAL
2036	\$ 2,774,498	\$ 24,082,076	\$ 34,044,761	\$ 5,114,898	\$ 69,943,024	\$ 16,690,763	\$ 1,374,949	\$ 1,362	\$ 224,585	\$ 154,250,916
2037	\$ 924,833	\$ 35,170,971	\$ 11,348,254	\$ 1,704,966	\$ 79,016,324	\$ 19,915,091	\$ 233,544	\$ 454	\$ 235,666	\$ 148,550,102
2038	\$ -	\$ 19,087,387	\$ -	\$ -	\$ 81,919,500	\$ 20,989,867	\$ 219,924	\$ -	\$ 228,016	\$ 122,444,693
2039	\$ -	\$ 20,163,780	\$ -	\$ -	\$ 81,919,500	\$ 20,989,867	\$ 219,924	\$ -	\$ 228,016	\$ 123,521,086
2040	\$ -	\$ 14,809,588	\$ -	\$ -	\$ 78,652,551	\$ 19,915,091	\$ 1,759,828	\$ 908	\$ 225,287	\$ 115,363,253
2041	\$ -	\$ 22,841,235	\$ -	\$ -	\$ 78,652,551	\$ 19,915,091	\$ 1,505,964	\$ -	\$ 230,221	\$ 123,145,062
2042	\$ -	\$ 34,233,408	\$ -	\$ -	\$ 75,385,602	\$ 18,840,315	\$ 1,931,703	\$ 908	\$ 237,020	\$ 130,628,955
2043	\$ -	\$ 17,515,537	\$ -	\$ -	\$ 62,317,806	\$ 14,541,211	\$ 6,723,289	\$ 3,632	\$ 226,953	\$ 101,328,429
2044	\$ -	\$ 16,336,290	\$ -	\$ -	\$ 52,516,959	\$ 11,316,883	\$ 7,151,057	\$ 2,724	\$ 223,529	\$ 87,547,442
2045	\$ -	\$ 12,451,815	\$ -	\$ -	\$ 49,250,011	\$ 10,242,107	\$ 3,306,705	\$ 908	\$ 220,629	\$ 75,472,175
2046	\$ -	\$ 18,489,796	\$ -	\$ -	\$ 42,716,113	\$ 8,092,554	\$ 7,412,819	\$ 1,816	\$ 224,188	\$ 76,937,287
2047	\$ -	\$ 24,948,874	\$ -	\$ -	\$ 32,915,266	\$ 4,868,226	\$ 12,022,818	\$ 2,724	\$ 225,868	\$ 74,983,776
2048	\$ -	\$ 10,486,643	\$ -	\$ -	\$ 29,648,317	\$ 3,793,450	\$ 8,178,467	\$ 908	\$ 216,163	\$ 52,323,948
2049	\$ -	\$ 13,032,751	\$ -	\$ -	\$ 29,648,317	\$ 3,793,450	\$ 5,530,268	\$ -	\$ 217,014	\$ 52,221,801
2050	\$ -	\$ 7,940,535	\$ -	\$ -	\$ 29,648,317	\$ 3,793,450	\$ 5,530,268	\$ -	\$ 214,292	\$ 47,126,863
2051	\$ -	\$ 13,032,751	\$ -	\$ -	\$ 29,648,317	\$ 3,793,450	\$ 9,204,773	\$ -	\$ 217,014	\$ 55,896,306
2052	\$ -	\$ 23,217,184	\$ -	\$ -	\$ 29,648,317	\$ 3,793,450	\$ 9,370,778	\$ -	\$ 222,458	\$ 66,252,188
2053	\$ -	\$ 9,764,776	\$ -	\$ -	\$ 26,953,016	\$ 3,448,591	\$ 7,726,342	\$ 908	\$ 215,646	\$ 48,109,278
2054	\$ -	\$ 11,589,017	\$ -	\$ -	\$ 24,257,714	\$ 3,103,732	\$ 6,993,259	\$ 908	\$ 216,489	\$ 46,161,120
2055	\$ -	\$ 5,053,068	\$ -	\$ -	\$ 18,867,111	\$ 2,414,014	\$ 8,456,249	\$ 1,816	\$ 213,242	\$ 35,005,500
2056	\$ -	\$ 10,145,284	\$ -	\$ -	\$ 18,867,111	\$ 2,414,014	\$ 11,393,122	\$ -	\$ 214,944	\$ 43,034,474
2057	\$ -	\$ 16,339,875	\$ -	\$ -	\$ 13,476,508	\$ 1,724,296	\$ 15,880,291	\$ 1,816	\$ 219,013	\$ 47,641,798
2058	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 17,161,836	\$ 4,540	\$ 211,151	\$ 17,377,527
2059	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 16,526,943	\$ -	\$ 208,599	\$ 16,735,542
2060	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 11,548,227	\$ -	\$ 208,599	\$ 11,756,826
<b>Total</b>	<b>\$ 3,699,330</b>	<b>\$ 380,732,640</b>	<b>\$ 45,393,014</b>	<b>\$ 6,819,864</b>	<b>\$ 1,035,868,251</b>	<b>\$ 218,388,963</b>	<b>\$ 177,363,348</b>	<b>\$ 26,332</b>	<b>\$ 5,524,604</b>	<b>\$ 1,873,816,347</b>

**C.29 Regulatory Alternative 4 Total Rule Costs by Rule Component (2008\$) - Period 1 (2011-2035) Present and Annualized Values Using a 3% Discount Rate**

Year	Rule Component										TOTAL
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin		
2036	\$ 1,325,116	\$ 11,501,734	\$ 16,259,967	\$ 2,442,904	\$ 33,405,178	\$ 7,971,601	\$ 656,683	\$ 651	\$ 107,263	\$ 73,671,096	
2037	\$ 428,840	\$ 16,308,594	\$ 5,262,125	\$ 790,584	\$ 36,639,453	\$ 9,234,523	\$ 108,293	\$ 211	\$ 108,122	\$ 68,880,744	
2038	\$ -	\$ 8,592,933	\$ -	\$ -	\$ 36,879,262	\$ 9,449,408	\$ 99,007	\$ -	\$ 101,697	\$ 55,122,307	
2039	\$ -	\$ 8,813,119	\$ -	\$ -	\$ 35,805,109	\$ 9,174,183	\$ 96,124	\$ -	\$ 98,998	\$ 53,987,532	
2040	\$ -	\$ 6,284,395	\$ -	\$ -	\$ 33,375,924	\$ 8,450,896	\$ 746,776	\$ 385	\$ 94,957	\$ 48,953,334	
2041	\$ -	\$ 9,410,286	\$ -	\$ -	\$ 32,403,809	\$ 8,204,754	\$ 620,437	\$ -	\$ 93,822	\$ 50,733,109	
2042	\$ -	\$ 13,692,923	\$ -	\$ -	\$ 30,153,272	\$ 7,535,884	\$ 772,656	\$ 363	\$ 93,569	\$ 52,248,667	
2043	\$ -	\$ 6,801,932	\$ -	\$ -	\$ 24,200,312	\$ 5,646,891	\$ 2,610,902	\$ 1,410	\$ 87,494	\$ 39,348,941	
2044	\$ -	\$ 6,159,210	\$ -	\$ -	\$ 19,800,272	\$ 4,266,762	\$ 2,696,136	\$ 1,027	\$ 84,452	\$ 33,007,860	
2045	\$ -	\$ 4,557,923	\$ -	\$ -	\$ 18,027,715	\$ 3,749,071	\$ 1,210,403	\$ 332	\$ 80,960	\$ 27,626,404	
2046	\$ -	\$ 6,570,967	\$ -	\$ -	\$ 15,180,597	\$ 2,875,960	\$ 2,634,393	\$ 645	\$ 79,735	\$ 27,342,297	
2047	\$ -	\$ 8,608,170	\$ -	\$ -	\$ 11,356,834	\$ 1,679,696	\$ 4,148,262	\$ 940	\$ 78,567	\$ 25,872,469	
2048	\$ -	\$ 3,512,846	\$ -	\$ -	\$ 9,931,680	\$ 1,270,741	\$ 2,739,647	\$ 304	\$ 73,457	\$ 17,528,676	
2049	\$ -	\$ 4,238,592	\$ -	\$ -	\$ 9,642,408	\$ 1,233,729	\$ 1,798,588	\$ -	\$ 71,667	\$ 16,984,984	
2050	\$ -	\$ 2,507,252	\$ -	\$ -	\$ 9,361,561	\$ 1,197,795	\$ 1,746,202	\$ -	\$ 68,720	\$ 14,881,531	
2051	\$ -	\$ 3,995,279	\$ -	\$ -	\$ 9,088,894	\$ 1,162,908	\$ 2,821,786	\$ -	\$ 67,553	\$ 17,136,421	
2052	\$ -	\$ 6,910,084	\$ -	\$ -	\$ 8,824,169	\$ 1,129,037	\$ 2,789,006	\$ -	\$ 67,206	\$ 19,719,502	
2053	\$ -	\$ 2,821,622	\$ -	\$ -	\$ 7,788,322	\$ 996,502	\$ 2,232,598	\$ 262	\$ 63,280	\$ 13,902,587	
2054	\$ -	\$ 3,251,217	\$ -	\$ -	\$ 6,805,330	\$ 870,730	\$ 1,961,909	\$ 255	\$ 61,674	\$ 12,951,115	
2055	\$ -	\$ 1,376,313	\$ -	\$ -	\$ 5,138,869	\$ 657,509	\$ 2,303,244	\$ 495	\$ 58,993	\$ 9,535,422	
2056	\$ -	\$ 2,682,805	\$ -	\$ -	\$ 4,989,193	\$ 638,358	\$ 3,012,781	\$ -	\$ 57,725	\$ 11,380,862	
2057	\$ -	\$ 4,195,043	\$ -	\$ -	\$ 3,459,912	\$ 442,690	\$ 4,077,051	\$ 466	\$ 57,088	\$ 12,232,249	
2058	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 4,277,738	\$ 1,132	\$ 53,466	\$ 4,332,335	
2059	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 3,999,500	\$ -	\$ 51,291	\$ 4,050,791	
2060	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 2,713,259	\$ -	\$ 49,797	\$ 2,763,056	
Total PV	\$ 1,753,956	\$ 142,793,239	\$ 21,522,093	\$ 3,233,487	\$ 402,258,077	\$ 87,839,629	\$ 52,873,383	\$ 8,878	\$ 1,911,550	\$ 714,194,292	
Annualized	\$ 100,726	\$ 8,200,312	\$ 1,235,968	\$ 185,692	\$ 23,100,825	\$ 5,044,443	\$ 3,036,406	\$ 510	\$ 109,776	\$ 41,014,658	

**C.30 Regulatory Alternative 4 Total Rule Costs by Rule Component (2008\$) - Period 2 (2036-2060) Present and Annualized Values Using a 7% Discount Rate**

Year	Rule Component									
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin	TOTAL
2036	\$ 511,199	\$ 4,437,103	\$ 6,272,719	\$ 942,416	\$ 12,886,945	\$ 3,075,259	\$ 253,333	\$ 251	\$ 41,380	\$ 28,420,604
2037	\$ 159,252	\$ 6,056,283	\$ 1,954,118	\$ 293,587	\$ 13,606,255	\$ 3,429,289	\$ 40,215	\$ 78	\$ 42,367	\$ 25,581,444
2038	\$ -	\$ 3,071,740	\$ -	\$ -	\$ 13,183,335	\$ 3,377,907	\$ 35,392	\$ -	\$ 37,597	\$ 19,705,972
2039	\$ -	\$ 3,032,677	\$ -	\$ -	\$ 12,320,874	\$ 3,156,922	\$ 33,077	\$ -	\$ 35,361	\$ 18,578,911
2040	\$ -	\$ 2,081,677	\$ -	\$ -	\$ 11,055,624	\$ 2,799,321	\$ 247,366	\$ 128	\$ 32,381	\$ 16,216,498
2041	\$ -	\$ 3,000,587	\$ -	\$ -	\$ 10,332,359	\$ 2,616,188	\$ 197,834	\$ -	\$ 31,287	\$ 16,178,256
2042	\$ -	\$ 4,202,938	\$ -	\$ -	\$ 9,255,317	\$ 2,313,082	\$ 237,161	\$ 111	\$ 30,798	\$ 16,039,408
2043	\$ -	\$ 2,009,753	\$ -	\$ -	\$ 7,150,415	\$ 1,668,475	\$ 771,438	\$ 417	\$ 26,894	\$ 11,627,391
2044	\$ -	\$ 1,751,817	\$ -	\$ -	\$ 5,631,640	\$ 1,213,562	\$ 766,841	\$ 292	\$ 24,974	\$ 9,389,127
2045	\$ -	\$ 1,247,913	\$ -	\$ -	\$ 4,935,804	\$ 1,026,457	\$ 331,396	\$ 91	\$ 22,780	\$ 7,564,441
2046	\$ -	\$ 1,731,809	\$ -	\$ -	\$ 4,000,917	\$ 757,972	\$ 694,306	\$ 170	\$ 21,972	\$ 7,207,146
2047	\$ -	\$ 2,183,911	\$ -	\$ -	\$ 2,881,253	\$ 426,142	\$ 1,052,423	\$ 238	\$ 21,349	\$ 6,565,317
2048	\$ -	\$ 857,900	\$ -	\$ -	\$ 2,425,494	\$ 310,338	\$ 669,071	\$ 74	\$ 18,474	\$ 4,281,351
2049	\$ -	\$ 996,443	\$ -	\$ -	\$ 2,266,817	\$ 290,035	\$ 422,827	\$ -	\$ 17,518	\$ 3,993,640
2050	\$ -	\$ 567,391	\$ -	\$ -	\$ 2,118,521	\$ 271,061	\$ 395,165	\$ -	\$ 15,927	\$ 3,368,065
2051	\$ -	\$ 870,332	\$ -	\$ -	\$ 1,979,926	\$ 253,328	\$ 614,698	\$ -	\$ 15,384	\$ 3,733,669
2052	\$ -	\$ 1,449,021	\$ -	\$ -	\$ 1,850,398	\$ 236,755	\$ 584,845	\$ -	\$ 15,325	\$ 4,136,344
2053	\$ -	\$ 569,565	\$ -	\$ -	\$ 1,572,131	\$ 201,151	\$ 450,666	\$ 53	\$ 13,297	\$ 2,806,864
2054	\$ -	\$ 631,748	\$ -	\$ -	\$ 1,322,353	\$ 169,193	\$ 381,221	\$ 49	\$ 12,590	\$ 2,517,155
2055	\$ -	\$ 257,436	\$ -	\$ -	\$ 961,212	\$ 122,985	\$ 430,816	\$ 93	\$ 11,318	\$ 1,783,860
2056	\$ -	\$ 483,052	\$ -	\$ -	\$ 898,329	\$ 114,940	\$ 542,466	\$ -	\$ 10,842	\$ 2,049,630
2057	\$ -	\$ 727,101	\$ -	\$ -	\$ 599,686	\$ 76,729	\$ 706,651	\$ 81	\$ 10,723	\$ 2,120,970
2058	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 713,717	\$ 189	\$ 9,016	\$ 722,922
2059	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 642,349	\$ -	\$ 8,108	\$ 650,457
2060	\$ -	\$ 0	\$ -	\$ -	\$ 0	\$ 0	\$ 419,479	\$ -	\$ 7,577	\$ 427,056
<b>Total PV</b>	<b>\$ 670,451</b>	<b>\$ 42,218,198</b>	<b>\$ 8,226,837</b>	<b>\$ 1,236,003</b>	<b>\$ 123,235,604</b>	<b>\$ 27,907,094</b>	<b>\$ 11,634,756</b>	<b>\$ 2,315</b>	<b>\$ 535,237</b>	<b>\$ 215,666,497</b>
<b>Annualized</b>	<b>\$ 57,532</b>	<b>\$ 3,622,765</b>	<b>\$ 705,949</b>	<b>\$ 106,062</b>	<b>\$ 10,574,911</b>	<b>\$ 2,394,722</b>	<b>\$ 998,384</b>	<b>\$ 199</b>	<b>\$ 45,929</b>	<b>\$ 18,506,454</b>

C.31 Baseline Total Rule Costs by Rule Component and Cost Type (\$2008) - Period 1 (2011-2035) Unadjusted Values

Year	Geologic Site Characterization	One-Time Costs						Capital Costs						O & M						TOTAL	
		Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL		
2011	\$ 11,240,264	\$ 61,956	\$ 1,597,599	\$ 818,721	\$ 568	\$ 5,675	\$ -	\$ 3,530	\$ 13,728,313	\$ 1,262,398	\$ 15,941,061	\$ 53,010	\$ 17,256,469	\$ 264,871	\$ 10,716	\$ -	\$ 1,135	\$ 208,599	\$ 485,320	\$ 31,470,102	
2012	\$ 11,240,264	\$ 61,956	\$ 1,597,599	\$ 818,721	\$ 568	\$ 5,675	\$ -	\$ 3,530	\$ 13,728,313	\$ 1,262,398	\$ 15,941,061	\$ 53,010	\$ 17,256,469	\$ 264,871	\$ 10,716	\$ -	\$ 1,135	\$ 208,599	\$ 485,320	\$ 31,470,102	
2013	\$ 11,240,264	\$ 61,956	\$ 1,597,599	\$ 818,721	\$ 568	\$ 5,675	\$ -	\$ 3,530	\$ 13,728,313	\$ 1,262,398	\$ 15,941,061	\$ 53,010	\$ 17,256,469	\$ 424,838	\$ 2,258,696	\$ 5,335	\$ 1,135	\$ 208,748	\$ 2,898,743	\$ 33,883,524	
2014	\$ 22,480,527	\$ 123,913	\$ 3,195,198	\$ 1,637,442	\$ 1,135	\$ 11,350	\$ -	\$ 7,061	\$ 27,456,625	\$ 2,524,797	\$ 31,882,121	\$ 106,020	\$ 34,512,938	\$ 849,676	\$ 4,517,373	\$ 5,335	\$ 2,270	\$ 208,897	\$ 5,583,551	\$ 67,553,114	
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 209,195	\$ 9,856,952	
2016	\$ 22,480,527	\$ 123,913	\$ 3,195,198	\$ 1,637,442	\$ 1,135	\$ 11,350	\$ -	\$ 7,061	\$ 27,456,625	\$ 2,524,797	\$ 31,882,121	\$ 106,020	\$ 34,512,938	\$ 1,169,611	\$ 9,013,314	\$ 5,335	\$ 2,270	\$ 209,195	\$ 10,399,725	\$ 72,369,288	
2017	\$ 61,741,596	\$ 371,318	\$ 9,174,196	\$ 4,244,443	\$ 4,165	\$ 41,650	\$ -	\$ 25,910	\$ 75,603,278	\$ 6,566,393	\$ 100,751,875	\$ 358,050	\$ 107,676,317	\$ 2,359,717	\$ 13,560,268	\$ 39,419	\$ 8,330	\$ 210,215	\$ 16,177,949	\$ 199,457,545	
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 211,308	\$ 29,495,146	
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 212,031	\$ 29,495,146	
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 210,585	\$ 29,469,309	
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 212,031	\$ 29,506,288	
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 345,976	\$ 2,124	\$ 796	\$ 348,896	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,833,869	\$ 24,727,678	\$ 108,469	
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,925	\$ -	\$ -	\$ 19,925	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,772,012	\$ 24,727,678	\$ 39,419		
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,925	\$ -	\$ -	\$ 19,925	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,784,383	\$ 24,727,678	\$ 5,947		
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,925	\$ -	\$ -	\$ 19,925	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,759,64	\$ 24,727,678	\$ 26,676		
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,925	\$ -	\$ -	\$ 19,925	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,784,383	\$ 24,727,678	\$ 3,985		
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,925	\$ -	\$ -	\$ 19,925	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,833,869	\$ 24,727,678	\$ 103,134		
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,925	\$ -	\$ -	\$ 19,925	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,772,012	\$ 24,727,678	\$ 44,754		
2029	\$ 413,939	\$ 39,373	\$ 1,437,812	\$ 1,317,457	\$ 568	\$ 25,600	\$ -	\$ -	\$ 3,234,749	\$ 206,904	\$ 9,910,441	\$ 225,293	\$ 10,342,638	\$ 1,833,639	\$ 24,772,850	\$ 52,162	\$ 5,120	\$ 211,683	\$ 26,875,227	\$ 40,452,841	
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,925	\$ -	\$ -	\$ 19,925	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,818,783	\$ 27,783,428	\$ 54,686		
2031	\$ 413,939	\$ 39,373	\$ 1,437,812	\$ 1,317,457	\$ 568	\$ 25,600	\$ -	\$ -	\$ 3,234,749	\$ 206,904	\$ 9,910,441	\$ 225,293	\$ 10,342,638	\$ 1,892,781	\$ 27,828,600	\$ 52,162	\$ 5,120	\$ 211,832	\$ 29,990,495	\$ 43,567,882	
2032	\$ 1,655,756	\$ 157,491	\$ 5,751,249	\$ 5,269,829	\$ 2,270	\$ 34,100	\$ -	\$ -	\$ 12,870,696	\$ 827,616	\$ 39,641,765	\$ 901,170	\$ 41,370,551	\$ 2,149,176	\$ 31,019,866	\$ 153,818	\$ 6,820	\$ 214,873	\$ 33,544,553	\$ 87,785,800	
2033	\$ 1,241,817	\$ 118,119	\$ 4,313,437	\$ 3,952,372	\$ 1,703	\$ 17,025	\$ -	\$ -	\$ 9,644,472	\$ 620,712	\$ 29,731,324	\$ 675,878	\$ 31,027,914	\$ 2,274,633	\$ 43,197,694	\$ 130,117	\$ 3,405	\$ 211,853	\$ 45,817,703	\$ 86,490,088	
2034	\$ 413,939	\$ 39,373	\$ 1,437,812	\$ 1,317,457	\$ 568	\$ 5,675	\$ -	\$ -	\$ -	\$ 3,214,824	\$ 206,904	\$ 9,910,441	\$ 225,293	\$ 10,342,638	\$ 2,401,901	\$ 52,274,600	\$ 225,027	\$ 1,135	\$ 213,746	\$ 55,116,409	\$ 68,673,871
2035	\$ 827,878	\$ 78,746	\$ 2,875,625	\$ 2,634,914	\$ 1,135	\$ 11,350	\$ -	\$ -	\$ 6,429,648	\$ 413,808	\$ 19,820,883	\$ 450,585	\$ 20,685,276	\$ 2,449,577	\$ 55,375,522	\$ 140,049	\$ 2,270	\$ 211,725	\$ 58,179,143	\$ 85,294,066	
Total	\$ 134,150,446	\$ 1,215,530	\$ 36,013,536	\$ 24,966,255	\$ 14,380	\$ 680,501	\$ -	\$ 2,124	\$ 47,889	\$ 197,090,662	\$ 16,623,632	\$ 315,323,533	\$ 3,379,620	\$ 335,326,785	\$ 40,336,132	\$ 583,362,927	\$ 1,516,706	\$ 136,100	\$ 5,280,172	\$ 630,632,037	\$ 1,163,049,484

C.32 Baseline Total Rule Costs by Rule Component and Cost Type (2008S) - Period 1 (2011-2035) Present and Annualized Values Using a 3% Discount Rate

Year	Geologic Site Characterization	One-Time Costs						Capital Costs						O & M									
		Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL	TOTAL			
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 208,599	\$ 208,599	\$ 208,599			
2012	\$ 10,912,877	\$ 60,152	\$ 1,551,067	\$ 794,875	\$ 551	\$ 5,510	\$ -	\$ 3,428	\$ 13,328,459	\$ 1,225,630	\$ 15,476,758	\$ 51,466	\$ 16,753,853	\$ 257,156	\$ 10,403	\$ -	\$ 1,102	\$ 202,523	\$ 471,185	\$ 30,553,497			
2013	\$ 10,595,026	\$ 58,400	\$ 1,505,890	\$ 771,723	\$ 535	\$ 5,349	\$ -	\$ 3,328	\$ 12,940,251	\$ 1,189,932	\$ 15,025,978	\$ 49,967	\$ 16,265,877	\$ 400,451	\$ 2,129,028	\$ 5,029	\$ 1,070	\$ 196,765	\$ 2,732,343	\$ 31,938,471			
2014	\$ 20,572,867	\$ 113,397	\$ 2,924,058	\$ 1,498,492	\$ 1,039	\$ 10,387	\$ -	\$ 6,482	\$ 25,126,702	\$ 2,310,547	\$ 29,176,657	\$ 97,023	\$ 31,584,227	\$ 777,574	\$ 4,134,036	\$ 4,882	\$ 2,077	\$ 191,170	\$ 5,109,740	\$ 61,820,669			
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 568,516	\$ 7,989,172	\$ 14,221	\$ -	\$ 185,867	\$ 8,757,775	\$ 8,757,775
2016	\$ 19,391,900	\$ 106,888	\$ 2,756,206	\$ 1,412,472	\$ 979	\$ 9,791	\$ -	\$ 6,091	\$ 23,684,326	\$ 2,177,912	\$ 27,501,798	\$ 91,454	\$ 29,771,163	\$ 1,008,917	\$ 7,774,964	\$ 4,602	\$ 1,958	\$ 180,453	\$ 8,970,894	\$ 62,426,384			
2017	\$ 51,707,615	\$ 310,973	\$ 7,683,245	\$ 3,554,654	\$ 3,488	\$ 34,881	\$ -	\$ 21,700	\$ 63,316,555	\$ 5,499,250	\$ 84,378,109	\$ 299,861	\$ 90,177,220	\$ 1,976,226	\$ 11,356,511	\$ 33,013	\$ 6,976	\$ 176,052	\$ 13,548,778	\$ 167,042,553			
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,474,647	\$ 22,291,794	\$ 44,000	\$ -	\$ 171,813	\$ 23,982,253	\$ 23,982,253
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,441,462	\$ 21,642,518	\$ 41,177	\$ -	\$ 167,379	\$ 23,292,537	\$ 23,292,537
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,380,514	\$ 21,012,154	\$ 31,708	\$ -	\$ 161,396	\$ 22,585,771	\$ 22,585,771
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,358,716	\$ 20,400,149	\$ 38,813	\$ -	\$ 157,771	\$ 21,955,450	\$ 21,955,450
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 249,941	\$ 1,534	\$ 575	\$ 252,050	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,324,826	\$ 17,863,801	\$ 78,360	\$ 49,988	\$ 155,014	\$ 19,471,989	\$ 19,724,039
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,975	\$ -	\$ -	\$ 13,975	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,242,853	\$ 17,343,496	\$ 27,648	\$ 2,795	\$ 147,963	\$ 18,764,755	\$ 18,778,730
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,568	\$ -	\$ -	\$ 13,568	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,215,078	\$ 16,838,346	\$ 39,153	\$ 2,714	\$ 144,146	\$ 18,239,436	\$ 18,253,004
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,173	\$ -	\$ -	\$ 13,173	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,163,339	\$ 16,347,908	\$ 17,636	\$ 2,635	\$ 138,991	\$ 17,670,500	\$ 17,683,673
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,789	\$ -	\$ -	\$ 12,789	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,145,328	\$ 15,871,756	\$ 36,905	\$ 2,558	\$ 135,871	\$ 17,192,418	\$ 17,205,207
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,417	\$ -	\$ -	\$ 12,417	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,142,807	\$ 15,409,472	\$ 64,269	\$ 2,483	\$ 133,716	\$ 16,752,747	\$ 16,765,164
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,055	\$ -	\$ -	\$ 12,055	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,072,098	\$ 14,960,652	\$ 27,077	\$ 2,411	\$ 127,634	\$ 16,189,870	\$ 16,201,925
2029	\$ 243,146	\$ 23,127	\$ 844,563	\$ 773,867	\$ 333	\$ 15,037	\$ -	\$ -	\$ 1,900,074	\$ 121,534	\$ 5,821,340	\$ 132,336	\$ 6,075,210	\$ 1,077,070	\$ 14,551,439	\$ 30,640	\$ 3,007	\$ 124,341	\$ 15,786,497	\$ 23,761,780			
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,363	\$ -	\$ -	\$ 11,363	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,037,226	\$ 15,844,501	\$ 31,187	\$ 2,273	\$ 119,942	\$ 17,035,129	\$ 17,046,492
2031	\$ 229,188	\$ 21,800	\$ 796,082	\$ 729,444	\$ 314	\$ 14,174	\$ -	\$ -	\$ 1,791,002	\$ 114,558	\$ 5,487,171	\$ 124,739	\$ 5,726,468	\$ 1,047,987	\$ 15,408,021	\$ 28,881	\$ 2,835	\$ 117,250	\$ 16,604,974	\$ 24,122,443			
2032	\$ 890,051	\$ 84,659	\$ 3,091,580	\$ 2,832,793	\$ 1,220	\$ 18,330	\$ -	\$ -	\$ 6,918,633	\$ 444,885	\$ 21,309,402	\$ 484,423	\$ 22,238,710	\$ 1,155,288	\$ 16,674,707	\$ 82,685	\$ 3,666	\$ 115,434	\$ 18,031,780	\$ 47,189,123			
2033	\$ 648,095	\$ 61,645	\$ 2,251,160	\$ 2,062,713	\$ 889	\$ 8,885	\$ -	\$ -	\$ 5,033,377	\$ 323,945	\$ 15,516,555	\$ 352,735	\$ 16,193,235	\$ 1,187,114	\$ 22,544,552	\$ 67,907	\$ 1,777	\$ 110,358	\$ 23,911,709	\$ 45,136,322			
2034	\$ 209,740	\$ 19,950	\$ 728,528	\$ 667,545	\$ 288	\$ 2,875	\$ -	\$ -	\$ 1,628,925	\$ 104,837	\$ 5,021,539	\$ 114,154	\$ 5,240,529	\$ 1,217,024	\$ 26,487,108	\$ 114,020	\$ 575	\$ 107,841	\$ 27,926,568	\$ 34,796,022			
2035	\$ 407,261	\$ 38,738	\$ 1,414,617	\$ 1,296,203	\$ 558	\$ 5,583	\$ -	\$ -	\$ 3,162,961	\$ 203,566	\$ 9,750,561	\$ 221,658	\$ 10,175,785	\$ 1,205,029	\$ 27,241,087	\$ 68,895	\$ 1,117	\$ 103,831	\$ 26,619,959	\$ 41,958,705			
Total PV	\$ 115,807,766	\$ 899,729	\$ 25,546,995	\$ 16,394,780	\$ 10,194	\$ 470,084	\$ 1,534	\$ 41,582	\$ 159,172,655	\$ 13,716,995	\$ 234,465,867	\$ 2,019,816	\$ 250,202,278	\$ 26,877,235	\$ 372,127,576	\$ 932,706	\$ 94,017	\$ 3,782,121	\$ 403,813,655	\$ 813,186,588			
Annualized Value	\$ 6,650,593	\$ 51,670	\$ 1,467,109	\$ 941,517	\$ 585	\$ 26,996	\$ 88	\$ 2,388	\$ 9,140,947	\$ 787,715	\$ 13,464,876	\$ 115,994	\$ 14,368,584	\$ 1,543,502	\$ 21,370,494	\$ 53,563	\$ 5,399	\$ 217,199	\$ 23,190,158	\$ 46,699,689			

C.33 Baseline Total Rule Costs by Rule Component and Cost Type (2008\$) - Period 1 (2011-2035) Present and Annualized Values Using a 7% Discount Rate

Year	One-Time Costs							Capital Costs					O & M						
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL	TOTAL
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 208,599	\$ 208,599	
2012	\$ 10,504,919	\$ 57,903	\$ 1,493,083	\$ 765,160	\$ 530	\$ 5,304	\$ -	\$ 3,356	\$ 12,830,255	\$ 1,179,812	\$ 14,898,187	\$ 49,542	\$ 16,127,541	\$ 247,543	\$ 10,014	\$ -	\$ 1,061	\$ 194,952	\$ 453,571
2013	\$ 9,817,682	\$ 54,115	\$ 1,395,405	\$ 715,103	\$ 496	\$ 4,957	\$ -	\$ 3,192	\$ 11,990,948	\$ 1,102,628	\$ 13,923,540	\$ 46,301	\$ 15,072,468	\$ 371,070	\$ 1,972,824	\$ 4,660	\$ 991	\$ 182,333	\$ 2,531,879
2014	\$ 18,350,807	\$ 101,150	\$ 2,608,233	\$ 1,336,641	\$ 926	\$ 9,265	\$ -	\$ 6,072	\$ 22,413,093	\$ 2,060,986	\$ 26,025,308	\$ 86,544	\$ 28,172,838	\$ 693,589	\$ 3,687,522	\$ 4,355	\$ 1,853	\$ 170,535	\$ 4,557,854
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 488,153	\$ 6,859,865	\$ 12,211	
2016	\$ 16,028,305	\$ 88,348	\$ 2,278,132	\$ 1,167,474	\$ 809	\$ 8,092	\$ -	\$ 5,501	\$ 19,576,661	\$ 1,800,145	\$ 22,731,512	\$ 75,591	\$ 24,607,248	\$ 833,917	\$ 6,426,368	\$ 3,804	\$ 1,618	\$ 149,192	\$ 7,414,899
2017	\$ 41,141,032	\$ 247,425	\$ 6,113,154	\$ 2,828,251	\$ 2,775	\$ 27,753	\$ -	\$ 19,226	\$ 50,379,617	\$ 4,375,465	\$ 67,135,228	\$ 238,584	\$ 71,749,277	\$ 1,572,379	\$ 9,035,779	\$ 26,266	\$ 5,551	\$ 140,198	\$ 10,780,173
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,129,437	\$ 17,073,366	\$ 33,700	
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,062,749	\$ 15,956,417	\$ 30,359	
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 979,765	\$ 14,912,539	\$ 22,503	
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 928,246	\$ 13,936,952	\$ 26,516	
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 164,371	\$ 1,009	\$ 465	\$ 165,845	\$ -	\$ -	\$ -	\$ -	\$ 871,258	\$ 11,747,942	\$ 51,533	
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,847	\$ -	\$ 8,847	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 786,794	\$ 10,979,385	\$ 17,502	
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,268	\$ -	\$ 8,268	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 740,456	\$ 10,261,107	\$ 23,859	
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,727	\$ -	\$ 7,727	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 682,419	\$ 9,589,820	\$ 10,345	
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,222	\$ -	\$ 7,222	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 646,743	\$ 8,962,449	\$ 20,840	
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,749	\$ -	\$ 6,749	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 621,195	\$ 8,376,120	\$ 34,935	
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,308	\$ -	\$ 6,308	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 560,974	\$ 7,828,150	\$ 14,168	
2029	\$ 122,470	\$ 11,649	\$ 425,397	\$ 389,788	\$ 168	\$ 7,574	\$ -	\$ -	\$ 957,045	\$ 61,215	\$ 2,932,142	\$ 66,656	\$ 3,060,013	\$ 542,508	\$ 7,329,393	\$ 15,433	\$ 1,515	\$ 63,027	\$ 7,951,874
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,509	\$ -	\$ 5,509	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 502,909	\$ 7,682,349	\$ 15,121	
2031	\$ 106,970	\$ 10,175	\$ 371,558	\$ 340,456	\$ 147	\$ 6,616	\$ -	\$ -	\$ 835,921	\$ 53,468	\$ 2,561,046	\$ 58,220	\$ 2,672,734	\$ 489,131	\$ 7,191,439	\$ 13,480	\$ 1,323	\$ 55,144	\$ 7,750,516
2032	\$ 399,887	\$ 38,036	\$ 1,389,002	\$ 1,272,733	\$ 548	\$ 8,236	\$ -	\$ -	\$ 3,108,441	\$ 199,880	\$ 9,574,005	\$ 217,644	\$ 9,991,530	\$ 519,054	\$ 7,491,704	\$ 37,149	\$ 1,647	\$ 52,677	\$ 8,102,231
2033	\$ 280,294	\$ 26,661	\$ 973,599	\$ 892,102	\$ 384	\$ 3,843	\$ -	\$ -	\$ 2,176,884	\$ 140,103	\$ 6,710,751	\$ 152,554	\$ 7,003,409	\$ 513,415	\$ 9,750,288	\$ 29,369	\$ 769	\$ 48,127	\$ 10,341,968
2034	\$ 87,319	\$ 8,306	\$ 303,302	\$ 277,913	\$ 120	\$ 1,197	\$ -	\$ -	\$ 678,157	\$ 43,646	\$ 2,090,577	\$ 47,525	\$ 2,181,747	\$ 506,674	\$ 11,027,164	\$ 47,469	\$ 239	\$ 45,492	\$ 11,627,038
2035	\$ 163,213	\$ 15,524	\$ 566,920	\$ 519,464	\$ 224	\$ 2,238	\$ -	\$ -	\$ 1,267,583	\$ 81,581	\$ 3,907,620	\$ 88,831	\$ 4,078,032	\$ 482,926	\$ 10,917,097	\$ 27,610	\$ 448	\$ 41,954	\$ 11,470,035
Total PV	\$ 97,002,898	\$ 659,291	\$ 17,917,785	\$ 10,505,085	\$ 7,128	\$ 300,075	\$ 1,009	\$ 37,812	\$ 126,431,083	\$ 11,098,929	\$ 172,489,916	\$ 1,127,992	\$ 184,716,837	\$ 16,773,302	\$ 219,006,053	\$ 523,187	\$ 60,015	\$ 2,632,759	\$ 238,995,315
Annualized Value	\$ 8,323,869	\$ 56,574	\$ 1,537,534	\$ 901,447	\$ 612	\$ 25,750	\$ 87	\$ 3,245	\$ 10,849,117	\$ 952,405	\$ 14,801,449	\$ 96,794	\$ 15,850,647	\$ 1,439,326	\$ 18,793,023	\$ 44,895	\$ 5,150	\$ 225,918	\$ 20,508,312
																		\$ 47,208,076	

C.34 Baseline Total Rule Costs by Rule Component and Cost Type (\$2008) - Period 2 (2036-2060) Unadjusted Values

Year	One-Time Costs										Capital Costs						O & M						TOTAL		
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL						
2011	\$ 1,241,817	\$ 118,119	\$ 4,313,437	\$ 3,952,372	\$ 1,703	\$ 17,025	\$ -	\$ 9,644,472	\$ 620,712	\$ 29,731,324	\$ 675,878	\$ 31,027,914	\$ 2,977,840	\$ 61,532,193	\$ 270,377	\$ 3,405	\$ 214,192	\$ 64,698,007	\$ 105,370,393						
2012	\$ 413,039	\$ 39,373	\$ 1,437,812	\$ 1,317,457	\$ 568	\$ 5,675	\$ -	\$ 3,214,824	\$ 206,904	\$ 9,910,441	\$ 225,293	\$ 10,342,638	\$ 2,914,182	\$ 70,609,099	\$ 501,160	\$ 1,135	\$ 219,701	\$ 74,245,277	\$ 87,802,738						
2013	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
2014	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 77,050,043		
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 780,831	\$ 908	\$ 340	\$ 782,079	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 77,050,043		
2016	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 32,522	\$ -	\$ -	\$ 32,522	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 76,979,685		
2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 813,353	\$ 908	\$ 340	\$ 814,601	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 76,979,685		
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,168,368	\$ 3,632	\$ 1,361	\$ 3,193,361	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 62,094,795		
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,537,624	\$ 2,724	\$ 1,021	\$ 2,541,369	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 51,794,309		
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,073,528	\$ 908	\$ 340	\$ 1,074,776	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 49,262,940		
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,886,881	\$ 1,816	\$ 681	\$ 1,889,378	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 45,878,929		
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,732,756	\$ 2,724	\$ 1,021	\$ 2,736,501	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 46,953,706		
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,268,660	\$ 908	\$ 340	\$ 1,269,908	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 31,631,015		
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 520,351	\$ -	\$ -	\$ 520,351	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,808,866		
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 508,177	\$ -	\$ -	\$ 508,177	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,339,379		
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 487,829	\$ -	\$ -	\$ 487,829	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,361,301		
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 475,655	\$ -	\$ -	\$ 475,655	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,448,885		
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 691,594	\$ 908	\$ 340	\$ 692,842	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,167,808		
2029	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 672,811	\$ 908	\$ 340	\$ 674,060	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,768,355		
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 983,705	\$ 1,816	\$ 681	\$ 986,201	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18,258,820		
2031	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 567,311	\$ -	\$ -	\$ 567,311	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,824,332		
2032	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,060,056	\$ 1,816	\$ 681	\$ 1,062,552	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,652,785		
2033	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,040,042	\$ 4,540	\$ 1,701	\$ 2,046,284	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,662,891		
2034	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,090,448	\$ -	\$ -	\$ 1,090,448	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,517,136		
2035	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,090,448	\$ -	\$ -	\$ 1,090,448	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,517,136		
Total	\$ 1,655,756	\$ 157,491	\$ 5,751,249	\$ 5,269,829	\$ 2,270	\$ 24,525,650	\$ -	\$ 24,516	\$ 9,188	\$ 37,395,949	\$ 827,616	\$ 39,641,765	\$ 901,170	\$ 41,370,551	\$ 45,683,656	\$ 906,277,349	\$ 4,344,140	\$ 4,905,130	\$ 5,327,269	\$ 966,537,544	\$ 1,045,304,044				

**C.35 Baseline Total Rule Costs by Rule Component and Cost Type (2008\$) - Period 2 (2036-2060) Present and Annualized Values Using a 3% Discount Rate**

Year	One-Time Costs						Capital Costs						O & M						TOTAL	
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	O&M Costs Periodic Costs		
2011	\$ 593,099	\$ 56,414	\$ 2,060,121	\$ 1,887,675	\$ 813	\$ 8,131	\$ -	\$ 4,606,253	\$ 296,456	\$ 14,199,846	\$ 322,803	\$ 14,819,104	\$ 1,278,951	\$ 29,388,118	\$ 129,133	\$ 1,626	\$ 102,299	\$ 36,900,129	\$ 50,325,486	
2012	\$ 191,941	\$ 18,257	\$ 666,706	\$ 610,898	\$ 263	\$ 2,631	\$ -	\$ 1,490,697	\$ 95,940	\$ 4,595,419	\$ 104,467	\$ 4,795,827	\$ 1,351,291	\$ 32,741,067	\$ 232,385	\$ 526	\$ 101,338	\$ 34,426,607	\$ 40,713,31	
2013	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,272,339	\$ 33,142,773	\$ 174,954	\$ -	\$ 96,614	\$ 34,686,680	\$ 34,686,680
2014	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,224,962	\$ 32,177,449	\$ 149,425	\$ -	\$ 93,940	\$ 33,645,776	\$ 33,645,776
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 331,343	\$ 385	\$ 81	\$ 331,809	\$ -	\$ -	\$ -	\$ 1,153,687	\$ 29,943,546	\$ 126,900	\$ 66,269	\$ 90,555	\$ 31,380,956	\$ 31,712,765
2016	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,399	\$ -	\$ 13,399	\$ -	\$ -	\$ -	\$ -	\$ 1,159,924	\$ 29,071,404	\$ 185,472	\$ 2,680	\$ 88,846	\$ 30,508,325	\$ 30,521,723
2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 325,331	\$ 363	\$ 76	\$ 325,770	\$ -	\$ -	\$ -	\$ 1,136,668	\$ 27,002,403	\$ 206,115	\$ 65,068	\$ 87,543	\$ 28,497,796	\$ 28,823,566
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,238,161	\$ 1,410	\$ 295	\$ 1,239,867	\$ -	\$ -	\$ -	\$ 959,727	\$ 21,469,282	\$ 113,623	\$ 247,632	\$ 83,147	\$ 22,873,411	\$ 24,113,278
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 956,751	\$ 1,027	\$ 215	\$ 957,993	\$ -	\$ -	\$ -	\$ 842,413	\$ 17,387,669	\$ 67,743	\$ 191,350	\$ 80,600	\$ 18,569,775	\$ 19,527,768
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 392,960	\$ 332	\$ 69	\$ 393,361	\$ -	\$ -	\$ -	\$ 800,341	\$ 15,762,691	\$ 74,312	\$ 78,592	\$ 77,840	\$ 16,793,776	\$ 17,187,737
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 670,566	\$ 645	\$ 135	\$ 671,347	\$ -	\$ -	\$ -	\$ 756,575	\$ 13,131,654	\$ 86,232	\$ 134,113	\$ 76,171	\$ 14,184,746	\$ 14,856,093
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 942,889	\$ 940	\$ 197	\$ 944,026	\$ -	\$ -	\$ -	\$ 665,565	\$ 9,586,184	\$ 54,270	\$ 188,574	\$ 74,586	\$ 10,569,183	\$ 11,513,208
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 424,979	\$ 304	\$ 64	\$ 425,347	\$ -	\$ -	\$ -	\$ 593,594	\$ 8,283,350	\$ 14,992	\$ 84,996	\$ 71,040	\$ 9,047,971	\$ 9,473,318
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 169,232	\$ -	\$ -	\$ 169,232	\$ -	\$ -	\$ -	\$ 580,328	\$ 8,042,086	\$ 16,964	\$ 33,846	\$ 69,206	\$ 8,742,432	\$ 8,911,664
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 160,459	\$ -	\$ -	\$ 160,459	\$ -	\$ -	\$ -	\$ 555,613	\$ 7,807,852	\$ 10,108	\$ 32,092	\$ 66,733	\$ 8,472,397	\$ 8,632,856
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 149,547	\$ -	\$ -	\$ 149,547	\$ -	\$ -	\$ -	\$ 547,015	\$ 7,580,430	\$ 15,991	\$ 29,900	\$ 65,233	\$ 8,238,587	\$ 8,388,134
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 141,568	\$ -	\$ -	\$ 141,568	\$ -	\$ -	\$ -	\$ 545,811	\$ 7,359,649	\$ 32,283	\$ 28,314	\$ 64,194	\$ 8,030,251	\$ 8,171,820
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 199,842	\$ 262	\$ 98	\$ 200,203	\$ -	\$ -	\$ -	\$ 465,815	\$ 6,495,719	\$ 9,849	\$ 39,968	\$ 61,236	\$ 7,072,588	\$ 7,272,791
2029	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 188,752	\$ 255	\$ 95	\$ 189,103	\$ -	\$ -	\$ -	\$ 410,841	\$ 5,675,871	\$ 14,634	\$ 37,750	\$ 59,614	\$ 6,198,710	\$ 6,387,812
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 267,933	\$ 495	\$ 185	\$ 268,613	\$ -	\$ -	\$ -	\$ 304,994	\$ 4,285,987	\$ 2,906	\$ 53,587	\$ 57,403	\$ 4,704,876	\$ 4,973,490
2031	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,019	\$ -	\$ -	\$ 150,019	\$ -	\$ -	\$ -	\$ 302,654	\$ 4,161,152	\$ 13,794	\$ 30,004	\$ 56,113	\$ 4,563,716	\$ 4,713,735
2032	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 272,155	\$ 466	\$ 175	\$ 272,796	\$ -	\$ -	\$ -	\$ 221,228	\$ 2,885,681	\$ 16,358	\$ 54,431	\$ 54,959	\$ 3,232,657	\$ 3,505,453
2033	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 508,498	\$ 1,132	\$ 424	\$ 510,054	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 101,700	\$ 52,272	\$ 153,971	\$ 664,026
2034	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 263,887	\$ -	\$ -	\$ 263,887	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 52,777	\$ 50,749	\$ 103,527	\$ 367,414
2035	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 256,201	\$ -	\$ -	\$ 256,201	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 51,240	\$ 49,271	\$ 100,511	\$ 356,712
Total PV	\$ 785,040	\$ 74,671	\$ 2,726,827	\$ 2,498,573	\$ 1,076	\$ 8,035,236	\$ 8,017	\$ 2,109	\$ 14,131,550	\$ 392,398	\$ 18,705,265	\$ 427,270	\$ 19,614,931	\$ 17,130,332	\$ 353,382,031	\$ 1,748,443	\$ 1,607,047	\$ 1,831,501	\$ 375,699,355	\$ 409,445,836
Annualized Value	\$ 45,083	\$ 4,288	\$ 156,596	\$ 143,488	\$ 62	\$ 461,447	\$ 460	\$ 121	\$ 811,545	\$ 22,534	\$ 1,079,372	\$ 24,537	\$ 1,126,444	\$ 983,759	\$ 20,293,978	\$ 100,409	\$ 92,289	\$ 105,179	\$ 21,575,614	\$ 23,513,603

C.36 Baseline Total Rule Costs by Rule Component and Cost Type (2008\$) - Period 2 (2036-2060) Present and Annualized Values Using a 7% Discount Rate

Year	One-Time Costs							Capital Costs					O & M					Permitting Authority Periodic Costs	O&M Costs SUBTOTAL	TOTAL		
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging					
2011	\$ 228,804	\$ 21,763	\$ 794,747	\$ 728,221	\$ 314	\$ 3,137	\$ -	\$ 1,776,986	\$ 114,366	\$ 5,477,972	\$ 124,530	\$ 5,716,868	\$ 493,390	\$ 11,337,256	\$ 49,817	\$ 627	\$ 39,465	\$ 11,920,555	\$ 19,414,408			
2012	\$ 71,278	\$ 6,780	\$ 247,585	\$ 226,860	\$ 98	\$ 977	\$ -	\$ 553,576	\$ 35,628	\$ 1,706,533	\$ 38,794	\$ 1,780,956	\$ 501,809	\$ 12,158,569	\$ 86,297	\$ 195	\$ 38,602	\$ 12,785,472	\$ 15,120,006			
2013	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 454,627	\$ 11,847,642	\$ 62,541	\$ -	\$ 34,984	\$ 12,399,994	\$ 12,399,994	
2014	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 421,521	\$ 11,072,562	\$ 51,419	\$ -	\$ 32,804	\$ 11,578,306	\$ 11,578,306
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 109,756	\$ 128	\$ 48	\$ 109,931	\$ -	\$ -	\$ -	\$ -	\$ 382,151	\$ 9,918,664	\$ 42,035	\$ 21,951	\$ 30,274	\$ 10,395,078	\$ 10,505,009
2016	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,272	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 369,856	\$ 9,269,780	\$ 59,140	\$ 854	\$ 28,864	\$ 9,728,494	\$ 9,732,767
2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 99,856	\$ 111	\$ 42	\$ 100,011	\$ -	\$ -	\$ -	\$ -	\$ 348,892	\$ 8,288,182	\$ 63,265	\$ 19,972	\$ 27,776	\$ 8,748,087	\$ 8,848,098
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 365,837	\$ 417	\$ 156	\$ 366,410	\$ -	\$ -	\$ -	\$ -	\$ 283,569	\$ 6,343,484	\$ 33,572	\$ 73,167	\$ 24,911	\$ 6,758,703	\$ 7,125,712
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 272,121	\$ 292	\$ 109	\$ 272,523	\$ -	\$ -	\$ -	\$ -	\$ 239,601	\$ 4,945,442	\$ 19,268	\$ 54,424	\$ 23,257	\$ 5,281,992	\$ 5,554,515
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 107,588	\$ 91	\$ 34	\$ 107,713	\$ -	\$ -	\$ -	\$ -	\$ 219,125	\$ 4,315,663	\$ 20,346	\$ 21,518	\$ 21,497	\$ 4,598,149	\$ 4,705,862
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 176,731	\$ 170	\$ 64	\$ 176,965	\$ -	\$ -	\$ -	\$ -	\$ 199,398	\$ 3,460,909	\$ 22,727	\$ 35,346	\$ 20,443	\$ 3,738,823	\$ 3,915,788
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 239,213	\$ 238	\$ 89	\$ 239,541	\$ -	\$ -	\$ -	\$ -	\$ 168,855	\$ 2,432,035	\$ 13,769	\$ 47,843	\$ 19,540	\$ 2,682,041	\$ 2,921,582
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 103,788	\$ 74	\$ 28	\$ 103,890	\$ -	\$ -	\$ -	\$ -	\$ 144,966	\$ 2,022,943	\$ 3,661	\$ 20,758	\$ 17,523	\$ 2,209,850	\$ 2,317,740
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,784	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 136,426	\$ 1,890,601	\$ 3,988	\$ 7,957	\$ 16,524	\$ 2,055,498	\$ 2,095,282
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 36,312	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 125,735	\$ 1,766,916	\$ 2,287	\$ 7,262	\$ 15,199	\$ 1,917,401	\$ 1,953,712
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 32,577	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 119,162	\$ 1,651,324	\$ 3,463	\$ 6,515	\$ 14,463	\$ 1,794,948	\$ 1,827,525
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29,686	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 114,455	\$ 1,543,293	\$ 6,770	\$ 5,937	\$ 14,013	\$ 1,684,468	\$ 1,714,155
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,340	\$ 53	\$ 55	\$ 40,447	\$ -	\$ -	\$ -	\$ -	\$ 94,026	\$ 1,311,209	\$ 1,988	\$ 8,068	\$ 12,522	\$ 1,427,815	\$ 1,468,262
2029	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 36,677	\$ 49	\$ 53	\$ 36,779	\$ -	\$ -	\$ -	\$ -	\$ 79,831	\$ 1,102,886	\$ 2,843	\$ 7,335	\$ 11,802	\$ 1,204,698	\$ 1,241,476
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50,116	\$ 93	\$ 101	\$ 50,310	\$ -	\$ -	\$ -	\$ -	\$ 57,048	\$ 801,683	\$ 544	\$ 10,023	\$ 10,782	\$ 880,080	\$ 930,390
2031	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,012	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 54,494	\$ 749,236	\$ 2,464	\$ 5,402	\$ 10,289	\$ 821,905	\$ 848,917
2032	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 47,171	\$ 81	\$ 94	\$ 47,346	\$ -	\$ -	\$ -	\$ -	\$ 38,344	\$ 500,158	\$ 2,835	\$ 9,434	\$ 9,685	\$ 560,657	\$ 608,003
2033	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 84,840	\$ 189	\$ 227	\$ 85,256	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ -	\$ 16,968	\$ 8,675	\$ 25,643	\$ 110,899
2034	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 42,382	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ -	\$ 8,476	\$ 8,108	\$ 16,584	\$ 58,966
2035	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,610	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ -	\$ 7,922	\$ 7,577	\$ 15,499	\$ 55,109
Total PV	\$ 300,682	\$ 28,543	\$ 1,042,332	\$ 955,081	\$ 411	\$ 1,989,785	\$ 1,986	\$ 1,100	\$ 4,319,322	\$ 149,994	\$ 7,184,505	\$ 163,324	\$ 7,497,823	\$ 5,047,488	\$ 108,730,436	\$ 555,079	\$ 397,957	\$ 499,778	\$ 115,230,739	\$ 127,047,883		
Annualized Value	\$ 25,750	\$ 2,449	\$ 89,443	\$ 81,956	\$ 35	\$ 170,744	\$ 170	\$ 94	\$ 370,643	\$ 12,871	\$ 616,506	\$ 14,015	\$ 643,392	\$ 433,128	\$ 9,330,215	\$ 47,632	\$ 34,149	\$ 42,886	\$ 9,888,009	\$ 10,902,045		

C.37 Regulatory Alternative 1 Total Rule Costs by Rule Component and Cost Type (\$2008) - Period 1 (2011-2035) Unadjusted Values

Year	Geologic Site Characterization	One-Time Costs						Capital Costs						O & M						TOTAL			
		Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL				
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,808,763	\$ 1,808,763	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 208,599	\$ 208,599	\$ 2,017,362				
2012	\$ 6,904,745	\$ 113,708	\$ 1,692,038	\$ 864,409	\$ 599	\$ 5,990	\$ -	\$ 4,326	\$ 9,585,814	\$ 2,754,551	\$ 16,362,929	\$ 55,955	\$ 19,173,436	\$ 573,652	\$ 11,311	\$ -	\$ 1,198	\$ 208,599	\$ 794,760	\$ 29,554,009			
2013	\$ 6,904,745	\$ 113,708	\$ 1,692,038	\$ 864,409	\$ 599	\$ 5,990	\$ -	\$ 4,326	\$ 9,585,814	\$ 2,754,551	\$ 16,362,929	\$ 55,955	\$ 19,173,436	\$ 908,309	\$ 2,431,931	\$ 5,780	\$ 1,198	\$ 208,779	\$ 3,555,996	\$ 32,315,245			
2014	\$ 13,809,490	\$ 227,415	\$ 3,384,075	\$ 1,728,817	\$ 1,198	\$ 11,981	\$ -	\$ 8,651	\$ 19,171,627	\$ 5,509,102	\$ 32,725,859	\$ 111,910	\$ 38,346,871	\$ 1,816,617	\$ 4,863,861	\$ 5,780	\$ 2,396	\$ 208,958	\$ 6,897,813	\$ 64,416,111			
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,338,628	\$ 9,682,479	\$ 17,339	\$ -	\$ 209,317	\$ 11,247,764	\$ 11,247,764			
2016	\$ 13,809,490	\$ 227,415	\$ 3,384,075	\$ 1,728,817	\$ 1,198	\$ 11,981	\$ -	\$ 8,651	\$ 19,171,627	\$ 5,509,102	\$ 32,725,859	\$ 111,910	\$ 38,346,871	\$ 2,485,931	\$ 9,705,101	\$ 5,780	\$ 2,396	\$ 209,317	\$ 69,927,024	\$ 69,927,024			
2017	\$ 37,764,263	\$ 648,224	\$ 9,646,390	\$ 4,448,986	\$ 4,323	\$ 43,226	\$ -	\$ 29,887	\$ 52,585,300	\$ 14,280,807	\$ 102,544,509	\$ 372,775	\$ 117,198,091	\$ 5,007,151	\$ 14,599,138	\$ 42,468	\$ 8,645	\$ 210,395	\$ 19,867,797	\$ 189,651,187			
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,768,837	\$ 29,314,695	\$ 57,608	\$ -	\$ 211,691	\$ 33,352,831	\$ 33,352,831		
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,782,240	\$ 29,314,695	\$ 56,037	\$ -	\$ 212,409	\$ 33,365,381	\$ 33,365,381		
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,755,435	\$ 29,314,695	\$ 44,039	\$ -	\$ 210,973	\$ 33,325,141	\$ 33,325,141		
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,782,240	\$ 29,314,695	\$ 56,037	\$ -	\$ 212,409	\$ 33,365,381	\$ 33,365,381		
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 365,901	\$ 2,124	\$ 796	\$ 368,821	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,761,642	\$ 26,626,818	\$ 116,092	\$ 73,180	\$ 214,885	\$ 30,792,617	\$ 31,161,438
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,694,629	\$ 26,626,818	\$ 42,468	\$ 7,970	\$ 211,293	\$ 30,583,178	\$ 30,623,028
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,708,032	\$ 26,626,818	\$ 61,817	\$ 7,970	\$ 212,011	\$ 30,616,648	\$ 30,656,498
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,681,227	\$ 26,626,818	\$ 28,899	\$ 7,970	\$ 210,575	\$ 30,555,489	\$ 30,595,339
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,708,032	\$ 26,626,818	\$ 61,817	\$ 7,970	\$ 212,011	\$ 30,616,648	\$ 30,656,498
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,761,642	\$ 26,626,818	\$ 110,312	\$ 7,970	\$ 214,885	\$ 30,721,627	\$ 30,761,477
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,694,629	\$ 26,626,818	\$ 48,248	\$ 7,970	\$ 211,293	\$ 30,588,958	\$ 30,628,808
2029	\$ 283,032	\$ 62,270	\$ 1,521,722	\$ 1,387,215	\$ 599	\$ 45,840	\$ -	\$ 790	\$ 3,301,468	\$ 456,607	\$ 10,012,932	\$ 237,073	\$ 10,706,611	\$ 3,811,807	\$ 26,674,353	\$ 56,037	\$ 9,168	\$ 212,011	\$ 30,763,376	\$ 44,771,455			
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,796,049	\$ 29,829,073	\$ 73,932	\$ 7,970	\$ 210,754	\$ 33,917,779	\$ 33,957,629
2031	\$ 283,032	\$ 62,270	\$ 1,521,722	\$ 1,387,215	\$ 599	\$ 45,840	\$ -	\$ 790	\$ 3,301,468	\$ 456,607	\$ 10,012,932	\$ 237,073	\$ 10,706,611	\$ 3,926,630	\$ 29,876,608	\$ 70,837	\$ 9,168	\$ 212,191	\$ 34,095,434	\$ 48,103,513			
2032	\$ 1,132,129	\$ 249,078	\$ 6,086,888	\$ 5,548,861	\$ 2,396	\$ 46,761	\$ -	\$ 3,160	\$ 13,069,274	\$ 1,826,427	\$ 40,051,726	\$ 948,290	\$ 42,826,443	\$ 4,406,388	\$ 33,221,468	\$ 194,599	\$ 9,352	\$ 215,244	\$ 38,047,049	\$ 93,942,766			
2033	\$ 849,097	\$ 186,809	\$ 4,565,166	\$ 4,161,645	\$ 1,797	\$ 17,971	\$ -	\$ 2,370	\$ 9,784,855	\$ 1,369,820	\$ 30,038,795	\$ 711,218	\$ 32,119,833	\$ 4,694,890	\$ 45,982,952	\$ 229,084	\$ 3,594	\$ 212,370	\$ 51,122,890	\$ 93,027,578			
2034	\$ 283,032	\$ 62,270	\$ 1,521,722	\$ 1,387,215	\$ 599	\$ 5,990	\$ -	\$ 790	\$ 3,261,618	\$ 456,607	\$ 10,012,932	\$ 237,073	\$ 10,706,611	\$ 4,884,036	\$ 55,494,648	\$ 374,749	\$ 1,198	\$ 214,346	\$ 60,968,977	\$ 74,937,206			
2035	\$ 566,065	\$ 124,539	\$ 3,043,444	\$ 2,774,430	\$ 1,198	\$ 11,981	\$ -	\$ 1,580	\$ 6,523,237	\$ 913,214	\$ 20,025,863	\$ 474,145	\$ 21,413,222	\$ 5,037,002	\$ 58,744,437	\$ 299,171	\$ 2,396	\$ 212,370	\$ 64,295,377	\$ 92,231,836			
Total	\$ 82,589,121	\$ 2,077,705	\$ 38,059,280	\$ 26,282,020	\$ 15,105	\$ 898,403	\$ 2,124	\$ 1,874,878	\$ 151,798,636	\$ 36,287,395	\$ 320,877,265	\$ 3,553,375	\$ 360,718,034	\$ 83,785,674	\$ 624,763,867	\$ 2,058,928	\$ 179,681	\$ 5,287,687	\$ 716,075,835	\$ 1,228,592,506			

C.38 Regulatory Alternative 1 Total Rule Costs by Rule Component and Cost Type (2008\$) - Period 1 (2011-2035) Present and Annualized Values Using a 3% Discount Rate

Year	Geologic Site Characterization	One-Time Costs						Capital Costs						O & M						TOTAL		
		Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL			
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,808,763	\$ 1,808,763	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 227,584	\$ 227,584	\$ 2,036,347			
2012	\$ 6,703,636	\$ 110,396	\$ 1,642,755	\$ 839,232	\$ 582	\$ 5,816	\$ -	\$ 3,742	\$ 9,306,158	\$ 2,674,322	\$ 15,886,339	\$ 54,325	\$ 18,614,986	\$ 556,943	\$ 10,981	\$ -	\$ 1,163	\$ 202,523	\$ 771,611	\$ 28,692,755		
2013	\$ 6,508,384	\$ 107,180	\$ 1,594,908	\$ 814,788	\$ 565	\$ 5,646	\$ -	\$ 3,633	\$ 9,035,105	\$ 2,596,429	\$ 15,423,630	\$ 52,743	\$ 18,072,802	\$ 856,168	\$ 2,292,328	\$ 5,448	\$ 1,129	\$ 196,790	\$ 3,351,863	\$ 30,459,770		
2014	\$ 12,637,639	\$ 208,117	\$ 3,096,908	\$ 1,582,113	\$ 1,096	\$ 10,964	\$ -	\$ 7,055	\$ 17,543,893	\$ 5,041,609	\$ 29,948,797	\$ 102,414	\$ 35,092,819	\$ 1,662,462	\$ 4,451,122	\$ 5,289	\$ 2,193	\$ 191,219	\$ 6,312,285	\$ 58,948,997		
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,189,354	\$ 8,602,758	\$ 15,406	\$ -	\$ 185,961	\$ 9,993,478	\$ 9,993,478
2016	\$ 11,912,187	\$ 196,170	\$ 2,919,133	\$ 1,491,293	\$ 1,033	\$ 10,335	\$ -	\$ 6,650	\$ 16,536,802	\$ 4,752,200	\$ 28,229,613	\$ 96,535	\$ 33,078,348	\$ 2,144,386	\$ 8,371,705	\$ 4,986	\$ 2,067	\$ 180,545	\$ 10,703,689	\$ 60,318,838		
2017	\$ 31,626,976	\$ 542,878	\$ 8,078,700	\$ 3,725,956	\$ 3,620	\$ 36,201	\$ -	\$ 23,058	\$ 44,037,388	\$ 11,959,951	\$ 85,879,412	\$ 312,193	\$ 98,151,556	\$ 4,193,410	\$ 12,226,549	\$ 35,566	\$ 7,240	\$ 176,167	\$ 16,638,932	\$ 158,827,877		
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,064,409	\$ 28,835,530	\$ 46,840	\$ -	\$ 172,073	\$ 27,118,853	\$ 27,118,853
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,985,735	\$ 23,141,291	\$ 44,236	\$ -	\$ 167,615	\$ 26,338,877	\$ 26,338,877
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,878,228	\$ 22,467,273	\$ 33,752	\$ -	\$ 161,658	\$ 25,540,911	\$ 25,540,911
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,814,341	\$ 21,812,886	\$ 41,697	\$ -	\$ 157,993	\$ 24,826,918	\$ 24,826,918
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 264,335	\$ 1,534	\$ 575	\$ 266,444	\$ -	\$ -	\$ -	\$ -	\$ 2,717,490	\$ 19,235,780	\$ 83,867	\$ 52,867	\$ 155,132	\$ 22,245,136	\$ 22,245,136
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,950	\$ -	\$ -	\$ 27,950	\$ -	\$ -	\$ -	\$ -	\$ 2,591,339	\$ 18,675,515	\$ 29,786	\$ 5,590	\$ 148,153	\$ 21,450,382	\$ 21,478,332
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,136	\$ -	\$ -	\$ 27,136	\$ -	\$ -	\$ -	\$ -	\$ 2,524,989	\$ 18,131,568	\$ 42,094	\$ 5,427	\$ 144,315	\$ 20,848,393	\$ 20,875,529
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 26,346	\$ -	\$ -	\$ 26,346	\$ -	\$ -	\$ -	\$ -	\$ 2,433,725	\$ 17,603,464	\$ 19,106	\$ 5,269	\$ 139,184	\$ 20,200,747	\$ 20,227,093
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,578	\$ -	\$ -	\$ 25,578	\$ -	\$ -	\$ -	\$ -	\$ 2,380,044	\$ 17,090,741	\$ 39,678	\$ 5,116	\$ 136,031	\$ 19,651,610	\$ 19,677,188
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,833	\$ -	\$ -	\$ 24,833	\$ -	\$ -	\$ -	\$ -	\$ 2,344,131	\$ 16,592,953	\$ 68,743	\$ 4,967	\$ 133,818	\$ 19,144,611	\$ 19,169,444
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,110	\$ -	\$ -	\$ 24,110	\$ -	\$ -	\$ -	\$ -	\$ 2,235,311	\$ 16,109,663	\$ 29,191	\$ 4,822	\$ 127,798	\$ 18,506,785	\$ 18,530,895
2029	\$ 166,252	\$ 36,577	\$ 893,851	\$ 814,843	\$ 352	\$ 26,926	\$ -	\$ 224	\$ 1,939,025	\$ 268,208	\$ 5,881,542	\$ 139,255	\$ 6,289,005	\$ 2,239,035	\$ 15,668,371	\$ 32,916	\$ 5,388	\$ 124,488	\$ 18,070,194	\$ 26,298,224		
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,726	\$ -	\$ -	\$ 22,726	\$ -	\$ -	\$ -	\$ -	\$ 2,164,834	\$ 17,011,104	\$ 42,163	\$ 4,545	\$ 120,119	\$ 19,342,764	\$ 19,365,490
2031	\$ 156,708	\$ 34,477	\$ 842,541	\$ 768,067	\$ 332	\$ 25,381	\$ -	\$ 211	\$ 1,827,717	\$ 252,812	\$ 5,543,917	\$ 131,261	\$ 5,927,991	\$ 2,174,080	\$ 16,541,953	\$ 39,221	\$ 5,076	\$ 117,397	\$ 18,877,727	\$ 26,633,434		
2032	\$ 608,575	\$ 133,892	\$ 3,272,002	\$ 2,982,786	\$ 1,288	\$ 25,136	\$ -	\$ 819	\$ 7,024,499	\$ 981,795	\$ 21,529,777	\$ 509,753	\$ 23,021,324	\$ 2,368,651	\$ 17,858,175	\$ 104,607	\$ 5,027	\$ 115,540	\$ 20,452,000	\$ 50,497,823		
2033	\$ 443,137	\$ 97,494	\$ 2,382,526	\$ 2,171,932	\$ 938	\$ 9,379	\$ -	\$ 597	\$ 5,106,002	\$ 714,899	\$ 15,677,022	\$ 371,178	\$ 16,763,100	\$ 2,450,228	\$ 23,998,158	\$ 119,557	\$ 1,870	\$ 110,553	\$ 26,680,372	\$ 48,549,474		
2034	\$ 143,410	\$ 31,551	\$ 771,044	\$ 702,890	\$ 304	\$ 3,035	\$ -	\$ 193	\$ 1,652,428	\$ 231,359	\$ 5,073,470	\$ 120,123	\$ 5,424,951	\$ 2,474,701	\$ 28,118,680	\$ 189,882	\$ 607	\$ 108,044	\$ 30,891,914	\$ 37,969,294		
2035	\$ 278,466	\$ 61,265	\$ 1,497,173	\$ 1,364,836	\$ 589	\$ 5,894	\$ -	\$ 375	\$ 3,208,598	\$ 449,241	\$ 9,851,398	\$ 233,248	\$ 10,533,886	\$ 2,477,871	\$ 28,898,371	\$ 147,172	\$ 1,179	\$ 104,059	\$ 31,628,652	\$ 45,371,136		
Total PV	\$ 71,185,372	\$ 1,559,998	\$ 26,991,540	\$ 17,258,736	\$ 10,699	\$ 607,727	\$ 1,534	\$ 1,855,896	\$ 119,471,501	\$ 29,922,823	\$ 238,924,917	\$ 2,123,028	\$ 270,970,768	\$ 55,921,866	\$ 398,746,917	\$ 1,221,202	\$ 121,545	\$ 3,785,774	\$ 459,797,304	\$ 850,239,573		
Annualized Value	\$ 4,088,024	\$ 89,587	\$ 1,550,067	\$ 991,132	\$ 614	\$ 34,900	\$ 88	\$ 106,580	\$ 6,860,994	\$ 1,718,404	\$ 13,720,949	\$ 121,921	\$ 15,561,274	\$ 3,211,474	\$ 22,899,187	\$ 70,131	\$ 6,980	\$ 217,409	\$ 26,405,180	\$ 48,827,449		

C.39 Regulatory Alternative 1 Total Rule Costs by Rule Component and Cost Type (2008\$) - Period 1 (2011-2035) Present and Annualized Values Using a 7% Discount Rate

Year	Geologic Site Characterization	One-Time Costs						Capital Costs						O & M						TOTAL	
		Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL		
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,808,763	\$ 1,808,763	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 227,584	\$ 227,584	\$ 2,036,347		
2012	\$ 6,453,033	\$ 106,269	\$ 1,581,343	\$ 807,859	\$ 560	\$ 5,598	\$ -	\$ 4,099	\$ 8,958,761	\$ 2,574,347	\$ 15,292,457	\$ 52,294	\$ 17,919,099	\$ 536,123	\$ 10,571	\$ -	\$ 1,120	\$ 194,952	\$ 742,766	\$ 27,620,626	
2013	\$ 6,030,872	\$ 99,317	\$ 1,477,891	\$ 755,008	\$ 523	\$ 5,232	\$ -	\$ 3,886	\$ 8,372,729	\$ 2,405,932	\$ 14,292,016	\$ 48,873	\$ 16,746,821	\$ 793,352	\$ 2,124,142	\$ 5,048	\$ 1,046	\$ 182,361	\$ 3,105,950	\$ 28,225,500	
2014	\$ 11,272,657	\$ 185,638	\$ 2,762,413	\$ 1,411,230	\$ 978	\$ 9,780	\$ -	\$ 7,371	\$ 15,650,067	\$ 4,497,069	\$ 28,714,049	\$ 91,352	\$ 31,302,470	\$ 1,482,901	\$ 3,970,360	\$ 4,718	\$ 1,956	\$ 170,587	\$ 5,630,522	\$ 52,583,058	
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,021,233	\$ 7,386,717	\$ 13,228	\$ -	\$ 159,725	\$ 8,580,903		
2016	\$ 9,845,975	\$ 162,144	\$ 2,412,799	\$ 1,232,623	\$ 854	\$ 8,542	\$ -	\$ 6,635	\$ 13,669,572	\$ 3,927,914	\$ 23,333,085	\$ 79,790	\$ 27,340,789	\$ 1,772,435	\$ 6,919,603	\$ 4,121	\$ 1,708	\$ 149,285	\$ 8,847,152	\$ 49,857,514	
2017	\$ 25,163,923	\$ 431,939	\$ 6,427,797	\$ 2,964,547	\$ 2,880	\$ 28,804	\$ -	\$ 21,875	\$ 35,041,766	\$ 9,515,904	\$ 68,329,736	\$ 248,396	\$ 78,094,036	\$ 3,336,476	\$ 9,728,022	\$ 28,298	\$ 5,761	\$ 140,324	\$ 13,238,881	\$ 126,374,683	
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,347,042	\$ 18,255,719	\$ 35,875	\$ -	\$ 132,079	\$ 20,770,715	\$ 20,770,715	
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,201,298	\$ 17,061,420	\$ 32,614	\$ -	\$ 123,957	\$ 19,419,288	\$ 19,419,288	
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,042,708	\$ 15,945,252	\$ 23,954	\$ -	\$ 114,978	\$ 18,126,892	\$ 18,126,892	
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,922,699	\$ 14,902,105	\$ 28,486	\$ -	\$ 108,356	\$ 16,961,646	\$ 16,961,646	
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 173,837	\$ 1,009	\$ 465	\$ 175,311	\$ -	\$ -	\$ -	\$ 1,787,129	\$ 12,650,210	\$ 55,154	\$ 34,767	\$ 102,741	\$ 14,630,002	\$ 14,805,313
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,694	\$ -	\$ -	\$ 17,694	\$ -	\$ -	\$ -	\$ 1,640,460	\$ 11,822,626	\$ 18,854	\$ 3,538	\$ 94,107	\$ 13,579,587	\$ 13,597,281
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,536	\$ -	\$ -	\$ 16,536	\$ -	\$ -	\$ -	\$ 1,538,701	\$ 11,049,183	\$ 25,652	\$ 3,307	\$ 88,357	\$ 12,705,200	\$ 12,721,737
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,455	\$ -	\$ -	\$ 15,455	\$ -	\$ -	\$ -	\$ 1,427,643	\$ 10,326,339	\$ 11,208	\$ 3,091	\$ 81,891	\$ 11,850,171	\$ 11,865,626
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,443	\$ -	\$ -	\$ 14,443	\$ -	\$ -	\$ -	\$ 1,343,961	\$ 9,650,784	\$ 22,405	\$ 2,889	\$ 77,242	\$ 11,097,281	\$ 11,111,725
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,499	\$ -	\$ -	\$ 13,499	\$ -	\$ -	\$ -	\$ 1,274,198	\$ 9,019,425	\$ 37,367	\$ 2,700	\$ 73,538	\$ 10,407,227	\$ 10,420,725
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,615	\$ -	\$ -	\$ 12,615	\$ -	\$ -	\$ -	\$ 1,169,625	\$ 8,429,369	\$ 15,274	\$ 2,523	\$ 67,215	\$ 9,684,006	\$ 9,696,622
2029	\$ 83,739	\$ 18,423	\$ 450,223	\$ 410,427	\$ 177	\$ 13,562	\$ -	\$ 234	\$ 976,785	\$ 135,093	\$ 2,962,465	\$ 70,141	\$ 3,167,700	\$ 1,127,776	\$ 7,891,978	\$ 16,579	\$ 2,712	\$ 63,143	\$ 9,102,189	\$ 13,246,675	
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,019	\$ -	\$ -	\$ 11,019	\$ -	\$ -	\$ -	\$ 1,049,639	\$ 8,247,987	\$ 20,443	\$ 2,204	\$ 58,518	\$ 9,378,792	\$ 9,389,811
2031	\$ 73,141	\$ 16,092	\$ 393,242	\$ 358,483	\$ 155	\$ 11,846	\$ -	\$ 204	\$ 853,162	\$ 11,799	\$ 2,587,532	\$ 61,264	\$ 2,766,792	\$ 1,014,716	\$ 7,720,683	\$ 18,306	\$ 2,369	\$ 55,256	\$ 8,811,330	\$ 12,431,284	
2032	\$ 273,424	\$ 60,156	\$ 1,470,063	\$ 1,340,122	\$ 579	\$ 11,293	\$ -	\$ 763	\$ 3,156,401	\$ 441,106	\$ 9,673,016	\$ 229,024	\$ 10,343,147	\$ 1,064,200	\$ 8,023,419	\$ 46,998	\$ 2,259	\$ 52,764	\$ 9,189,640	\$ 22,689,187	
2033	\$ 191,652	\$ 42,165	\$ 1,030,418	\$ 939,338	\$ 406	\$ 4,056	\$ -	\$ 535	\$ 2,208,571	\$ 309,186	\$ 6,780,151	\$ 160,531	\$ 7,249,869	\$ 1,059,699	\$ 10,378,958	\$ 51,707	\$ 811	\$ 48,269	\$ 11,539,444	\$ 20,997,883	
2034	\$ 59,705	\$ 13,136	\$ 321,003	\$ 292,629	\$ 126	\$ 1,264	\$ -	\$ 167	\$ 688,028	\$ 96,320	\$ 2,112,197	\$ 50,010	\$ 2,258,526	\$ 1,030,272	\$ 11,706,423	\$ 79,052	\$ 253	\$ 45,638	\$ 12,861,638	\$ 15,808,193	
2035	\$ 111,598	\$ 24,552	\$ 600,005	\$ 546,970	\$ 236	\$ 2,362	\$ -	\$ 311	\$ 1,286,034	\$ 180,037	\$ 3,948,031	\$ 93,476	\$ 4,221,544	\$ 993,028	\$ 11,581,267	\$ 58,981	\$ 472	\$ 42,112	\$ 12,675,860	\$ 18,183,439	
Total PV	\$ 59,559,719	\$ 1,159,831	\$ 18,927,196	\$ 11,059,236	\$ 7,474	\$ 377,438	\$ 1,009	\$ 1,855,309	\$ 92,947,212	\$ 24,200,904	\$ 176,024,736	\$ 1,185,152	\$ 201,410,792	\$ 34,977,314	\$ 234,802,561	\$ 654,325	\$ 75,488	\$ 2,635,995	\$ 273,145,682	\$ 567,503,686	
Annualized Value	\$ 5,110,850	\$ 99,526	\$ 1,624,153	\$ 948,999	\$ 641	\$ 32,388	\$ 87	\$ 159,205	\$ 7,975,848	\$ 2,076,692	\$ 15,104,774	\$ 101,699	\$ 17,283,164	\$ 3,001,421	\$ 20,148,529	\$ 56,148	\$ 6,478	\$ 226,196	\$ 23,438,772	\$ 48,697,785	

C.40 Regulatory Alternative 1 Total Rule Costs by Rule Component and Cost Type (\$2008) - Period 2 (2036-2060) Unadjusted Values

Year	One-Time Costs							Capital Costs					O & M					TOTAL		
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL	
2011	\$ 849,097	\$ 186,809	\$ 4,565,166	\$ 4,161,645	\$ 1,797	\$ 17,971	\$ -	\$ 2,370	\$ 9,784,855	\$ 1,369,820	\$ 30,038,705	\$ 711,218	\$ 32,119,833	\$ 5,436,054	\$ 65,196,482	\$ 468,057	\$ 3,594	\$ 214,885	\$ 71,319,072	\$ 113,223,760
2012	\$ 283,032	\$ 62,270	\$ 1,521,722	\$ 1,387,215	\$ 599	\$ 5,990	\$ -	\$ 790	\$ 3,261,618	\$ 456,607	\$ 10,012,932	\$ 237,073	\$ 10,706,611	\$ 5,743,061	\$ 74,708,178	\$ 757,791	\$ 1,198	\$ 220,452	\$ 61,430,680	\$ 95,358,910
2013	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,648,269	\$ 77,862,899	\$ 653,066	\$ -	\$ 216,322	\$ 84,380,556	\$ 84,380,556
2014	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,622,845	\$ 77,862,899	\$ 603,394	\$ -	\$ 216,322	\$ 84,305,460	\$ 84,305,460
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 855,889	\$ 958	\$ 359	\$ 857,207	\$ -	\$ -	\$ -	\$ -	\$ 5,481,218	\$ 74,660,644	\$ 542,782	\$ 171,178	\$ 214,705	\$ 81,070,527	\$ 81,927,734
2016	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 70,375	\$ -	\$ -	\$ 70,375	\$ -	\$ -	\$ -	\$ -	\$ 5,585,676	\$ 74,660,644	\$ 703,516	\$ 14,075	\$ 217,579	\$ 81,181,489	\$ 81,251,864
2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 926,264	\$ 958	\$ 359	\$ 927,582	\$ -	\$ -	\$ -	\$ -	\$ 5,563,290	\$ 71,458,389	\$ 757,325	\$ 185,253	\$ 220,991	\$ 78,185,244	\$ 79,112,829
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,564,306	\$ 3,834	\$ 1,437	\$ 3,569,577	\$ -	\$ -	\$ -	\$ -	\$ 4,959,334	\$ 58,649,369	\$ 460,670	\$ 712,861	\$ 215,244	\$ 64,997,478	\$ 68,567,055
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,989,916	\$ 2,875	\$ 1,078	\$ 2,993,869	\$ -	\$ -	\$ -	\$ -	\$ 4,550,616	\$ 49,042,604	\$ 296,241	\$ 597,983	\$ 213,987	\$ 54,701,431	\$ 57,695,299
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,489,261	\$ 958	\$ 359	\$ 1,490,578	\$ -	\$ -	\$ -	\$ -	\$ 4,447,815	\$ 45,840,349	\$ 305,984	\$ 297,852	\$ 213,089	\$ 51,105,088	\$ 52,595,668
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,415,525	\$ 1,917	\$ 718	\$ 2,418,160	\$ -	\$ -	\$ -	\$ -	\$ 4,283,801	\$ 39,435,838	\$ 317,856	\$ 483,105	\$ 214,885	\$ 44,735,495	\$ 47,153,646
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,412,164	\$ 2,875	\$ 1,078	\$ 3,416,116	\$ -	\$ -	\$ -	\$ -	\$ 3,915,291	\$ 29,829,073	\$ 182,574	\$ 682,433	\$ 215,783	\$ 34,825,153	\$ 38,241,270
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,911,509	\$ 958	\$ 359	\$ 1,912,827	\$ -	\$ -	\$ -	\$ -	\$ 3,694,629	\$ 26,626,818	\$ 48,244	\$ 382,303	\$ 211,293	\$ 30,963,290	\$ 32,876,116
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,125,994	\$ -	\$ -	\$ 1,125,994	\$ -	\$ -	\$ -	\$ -	\$ 3,708,032	\$ 26,626,818	\$ 56,037	\$ 225,199	\$ 212,011	\$ 30,828,097	\$ 31,954,091
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,099,708	\$ -	\$ -	\$ 1,099,708	\$ -	\$ -	\$ -	\$ -	\$ 3,681,227	\$ 26,626,818	\$ 34,679	\$ 219,942	\$ 210,575	\$ 30,773,240	\$ 31,872,948
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,055,620	\$ -	\$ -	\$ 1,055,620	\$ -	\$ -	\$ -	\$ -	\$ 3,708,032	\$ 26,626,818	\$ 56,037	\$ 211,124	\$ 212,011	\$ 30,814,022	\$ 31,869,642
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,029,333	\$ -	\$ -	\$ 1,029,333	\$ -	\$ -	\$ -	\$ -	\$ 3,761,642	\$ 26,626,818	\$ 116,092	\$ 205,867	\$ 214,885	\$ 30,925,300	\$ 31,954,637
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,290,677	\$ 958	\$ 359	\$ 1,291,994	\$ -	\$ -	\$ -	\$ -	\$ 3,359,972	\$ 24,206,198	\$ 36,688	\$ 258,135	\$ 211,113	\$ 28,072,107	\$ 29,364,102
2029	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,250,571	\$ 958	\$ 359	\$ 1,251,889	\$ -	\$ -	\$ -	\$ -	\$ 3,038,718	\$ 21,785,579	\$ 56,037	\$ 250,114	\$ 211,652	\$ 25,342,099	\$ 26,593,988
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,717,702	\$ 1,917	\$ 718	\$ 1,720,338	\$ -	\$ -	\$ -	\$ -	\$ 2,342,599	\$ 16,944,339	\$ 11,561	\$ 343,540	\$ 209,854	\$ 19,851,893	\$ 21,572,232
2031	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,230,101	\$ -	\$ -	\$ 1,230,101	\$ -	\$ -	\$ -	\$ -	\$ 2,369,404	\$ 16,944,339	\$ 56,037	\$ 246,020	\$ 211,293	\$ 19,827,093	\$ 21,057,194
2032	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,884,219	\$ 1,917	\$ 718	\$ 1,886,854	\$ -	\$ -	\$ -	\$ -	\$ 1,740,297	\$ 12,103,099	\$ 67,844	\$ 376,844	\$ 213,089	\$ 14,501,173	\$ 16,386,028
2033	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,387,610	\$ 4,792	\$ 1,796	\$ 3,394,198	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 677,522	\$ 208,599	\$ 886,121	\$ 4,280,320
2034	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,366,171	\$ -	\$ -	\$ 2,366,171	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 473,234	\$ 208,599	\$ 681,833	\$ 3,048,005
2035	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,366,171	\$ -	\$ -	\$ 2,366,171	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 473,234	\$ 208,599	\$ 681,833	\$ 3,048,005
Total	\$ 1,132,129	\$ 249,078	\$ 6,086,888	\$ 5,548,861	\$ 2,396	\$ 37,463,049	\$ 25,878	\$ 12,858	\$ 50,521,137	\$ 1,826,427	\$ 40,051,726	\$ 948,290	\$ 42,826,443	\$ 92,641,821	\$ 964,325,014	\$ 6,588,513	\$ 7,492,610	\$ 5,337,818	\$ 1,076,385,775	\$ 1,169,733,356

C.41 Regulatory Alternative 1 Total Rule Costs by Rule Component and Cost Type (2008\$) - Period 2 (2036-2060) Present and Annualized Values Using a 3% Discount Rate

Year	Geologic Site Characterization	One-Time Costs						Capital Costs						O & M						TOTAL
		Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL	
2011	\$ 405,533	\$ 89,221	\$ 2,180,349	\$ 1,987,625	\$ 858	\$ 8,583	\$ -	\$ 1,132	\$ 4,673,301	\$ 654,234	\$ 14,346,696	\$ 339,681	\$ 15,340,611	\$ 2,596,290	\$ 31,138,203	\$ 223,547	\$ 1,717	\$ 102,639	\$ 34,062,386	\$ 54,076,298
2012	\$ 131,241	\$ 28,874	\$ 705,614	\$ 643,244	\$ 278	\$ 2,778	\$ -	\$ 745	\$ 1,512,774	\$ 211,726	\$ 4,642,944	\$ 109,929	\$ 4,964,599	\$ 2,663,027	\$ 34,641,788	\$ 351,384	\$ 556	\$ 101,639	\$ 37,758,394	\$ 44,235,767
2013	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 552	\$ 552	\$ -	\$ -	\$ -	\$ -	\$ 2,542,789	\$ 35,053,025	\$ 294,003	\$ -	\$ 96,964	\$ 37,986,781	\$ 37,987,334
2014	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 536	\$ 536	\$ -	\$ -	\$ -	\$ -	\$ 2,457,615	\$ 34,032,063	\$ 263,729	\$ -	\$ 94,272	\$ 36,847,679	\$ 36,848,215
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 363,193	\$ 407	\$ 606	\$ 364,206	\$ -	\$ -	\$ -	\$ -	\$ 2,325,935	\$ 31,681,973	\$ 230,328	\$ 72,639	\$ 90,888	\$ 34,401,762	\$ 34,765,967
2016	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 28,993	\$ -	\$ 505	\$ 29,499	\$ -	\$ -	\$ -	\$ -	\$ 2,301,224	\$ 30,759,197	\$ 289,839	\$ 5,799	\$ 89,149	\$ 33,445,208	\$ 33,474,707
2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 370,494	\$ 383	\$ 571	\$ 371,448	\$ -	\$ -	\$ -	\$ -	\$ 2,225,244	\$ 28,582,437	\$ 302,920	\$ 74,099	\$ 87,795	\$ 31,272,496	\$ 31,643,943
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,384,152	\$ 1,489	\$ 788	\$ 1,386,428	\$ -	\$ -	\$ -	\$ -	\$ 1,925,893	\$ 22,775,722	\$ 178,899	\$ 276,830	\$ 83,409	\$ 25,240,749	\$ 26,627,178
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,127,277	\$ 1,084	\$ 689	\$ 1,129,050	\$ -	\$ -	\$ -	\$ -	\$ 1,715,702	\$ 18,490,349	\$ 111,691	\$ 225,455	\$ 80,828	\$ 20,624,025	\$ 21,753,075
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 545,136	\$ 351	\$ 522	\$ 546,010	\$ -	\$ -	\$ -	\$ -	\$ 1,628,100	\$ 16,779,626	\$ 112,004	\$ 109,027	\$ 78,070	\$ 18,706,828	\$ 19,252,837
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 856,437	\$ 681	\$ 578	\$ 859,697	\$ -	\$ -	\$ -	\$ -	\$ 1,522,392	\$ 14,014,842	\$ 112,961	\$ 171,687	\$ 76,366	\$ 15,898,249	\$ 16,757,946
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,177,307	\$ 992	\$ 631	\$ 1,178,930	\$ -	\$ -	\$ -	\$ -	\$ 1,350,902	\$ 10,291,998	\$ 62,994	\$ 235,461	\$ 74,730	\$ 12,016,088	\$ 13,195,015
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 640,323	\$ 321	\$ 478	\$ 641,122	\$ -	\$ -	\$ -	\$ -	\$ 1,237,638	\$ 8,919,530	\$ 16,162	\$ 128,065	\$ 71,211	\$ 10,372,805	\$ 11,013,727
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 366,203	\$ -	\$ 399	\$ 366,602	\$ -	\$ -	\$ -	\$ -	\$ 1,205,949	\$ 8,659,738	\$ 18,222	\$ 73,241	\$ 69,365	\$ 10,026,511	\$ 10,393,118
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 347,237	\$ -	\$ 387	\$ 347,624	\$ -	\$ -	\$ -	\$ -	\$ 1,162,360	\$ 8,407,512	\$ 10,950	\$ 69,447	\$ 66,901	\$ 9,717,171	\$ 10,064,795
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 323,607	\$ -	\$ 376	\$ 323,983	\$ -	\$ -	\$ -	\$ -	\$ 1,136,722	\$ 8,162,633	\$ 17,178	\$ 64,721	\$ 65,383	\$ 9,446,639	\$ 9,770,622
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 306,358	\$ -	\$ 365	\$ 306,724	\$ -	\$ -	\$ -	\$ -	\$ 1,119,570	\$ 7,924,887	\$ 34,552	\$ 61,272	\$ 64,314	\$ 9,204,594	\$ 9,511,318
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 372,953	\$ 277	\$ 456	\$ 373,686	\$ -	\$ -	\$ -	\$ -	\$ 970,895	\$ 6,994,604	\$ 10,601	\$ 74,591	\$ 61,376	\$ 8,112,067	\$ 8,485,753
2029	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 350,839	\$ 269	\$ 443	\$ 351,550	\$ -	\$ -	\$ -	\$ -	\$ 852,491	\$ 6,111,790	\$ 15,721	\$ 70,168	\$ 59,736	\$ 7,109,908	\$ 7,461,456
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 467,854	\$ 522	\$ 525	\$ 468,901	\$ -	\$ -	\$ -	\$ -	\$ 638,058	\$ 4,615,160	\$ 3,149	\$ 93,571	\$ 57,519	\$ 5,407,455	\$ 5,876,356
2031	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 325,286	\$ -	\$ 324	\$ 325,611	\$ -	\$ -	\$ -	\$ -	\$ 626,562	\$ 4,480,738	\$ 14,818	\$ 65,057	\$ 56,214	\$ 5,243,389	\$ 5,569,000
2032	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 483,748	\$ 492	\$ 495	\$ 484,735	\$ -	\$ -	\$ -	\$ -	\$ 446,798	\$ 3,107,308	\$ 17,418	\$ 96,750	\$ 55,027	\$ 3,723,301	\$ 4,208,036
2033	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 844,392	\$ 1,195	\$ 743	\$ 846,329	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 168,878	\$ 52,332	\$ 221,210	\$ 1,067,539
2034	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 572,611	\$ -	\$ 297	\$ 572,907	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 114,522	\$ 50,807	\$ 165,329	\$ 738,237
2035	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 555,933	\$ -	\$ 288	\$ 556,221	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 111,187	\$ 49,328	\$ 160,514	\$ 716,735
Total PV	\$ 536,774	\$ 118,095	\$ 2,885,963	\$ 2,630,869	\$ 1,136	\$ 11,823,694	\$ 8,463	\$ 13,432	\$ 18,018,426	\$ 865,960	\$ 18,989,639	\$ 449,611	\$ 20,305,210	\$ 34,652,156	\$ 375,625,122	\$ 2,693,069	\$ 2,364,739	\$ 1,836,254	\$ 417,171,339	\$ 455,494,976
Annualized Value	\$ 30,826	\$ 6,782	\$ 165,735	\$ 151,085	\$ 65	\$ 679,010	\$ 486	\$ 771	\$ 1,034,760	\$ 49,730	\$ 1,090,535	\$ 25,820	\$ 1,166,085	\$ 1,990,000	\$ 21,571,351	\$ 154,657	\$ 135,802	\$ 105,452	\$ 23,957,262	\$ 26,158,107

C.42 Regulatory Alternative 1 Total Rule Costs by Rule Component and Cost Type (2008\$) - Period 2 (2036-2060) Present and Annualized Values Using a 7% Discount Rate

Year	One-Time Costs							Capital Costs					O & M							TOTAL
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL	
2011	\$ 156,445	\$ 34,419	\$ 841,128	\$ 766,780	\$ 331	\$ 3,311	\$ -	\$ 437	\$ 1,802,852	\$ 252,388	\$ 5,534,623	\$ 131,041	\$ 5,918,053	\$ 1,001,589	\$ 12,012,398	\$ 86,239	\$ 662	\$ 39,592	\$ 13,140,480	\$ 20,861,385
2012	\$ 48,737	\$ 10,723	\$ 262,034	\$ 238,872	\$ 103	\$ 1,032	\$ -	\$ 136	\$ 561,636	\$ 78,626	\$ 1,724,182	\$ 40,823	\$ 1,843,630	\$ 988,929	\$ 12,864,412	\$ 130,488	\$ 206	\$ 38,728	\$ 14,022,764	\$ 16,428,030
2013	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 908,978	\$ 12,530,505	\$ 105,098	\$ -	\$ 35,139	\$ 13,579,720	\$ 13,579,720
2014	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 845,688	\$ 11,710,752	\$ 90,752	\$ -	\$ 32,945	\$ 12,680,137	\$ 12,680,137
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 120,306	\$ 135	\$ 50	\$ 120,491	\$ -	\$ -	\$ 770,455	\$ 10,494,510	\$ 76,295	\$ 24,061	\$ 30,414	\$ 11,395,736	\$ 11,516,228
2016	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,245	\$ -	\$ 9,245	\$ -	\$ -	\$ -	\$ 733,774	\$ 9,807,954	\$ 92,419	\$ 1,849	\$ 28,984	\$ 10,664,979	\$ 10,674,224
2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 113,720	\$ 118	\$ 44	\$ 113,882	\$ -	\$ -	\$ 683,022	\$ 8,773,161	\$ 92,979	\$ 22,744	\$ 27,862	\$ 9,599,768	\$ 9,713,650
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 408,973	\$ 440	\$ 165	\$ 409,577	\$ -	\$ -	\$ 569,040	\$ 6,729,495	\$ 52,858	\$ 81,795	\$ 25,006	\$ 7,458,193	\$ 7,867,770
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 320,623	\$ 308	\$ 116	\$ 321,047	\$ -	\$ -	\$ 487,984	\$ 5,259,069	\$ 31,767	\$ 64,125	\$ 23,332	\$ 5,866,277	\$ 6,187,324
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 149,253	\$ 96	\$ 36	\$ 149,388	\$ -	\$ -	\$ 445,757	\$ 4,594,096	\$ 30,666	\$ 29,851	\$ 21,576	\$ 5,121,938	\$ 5,271,323
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 226,245	\$ 180	\$ 67	\$ 226,492	\$ -	\$ -	\$ 401,233	\$ 3,693,677	\$ 29,771	\$ 45,249	\$ 20,501	\$ 4,190,431	\$ 4,416,923
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 298,685	\$ 252	\$ 94	\$ 299,031	\$ -	\$ -	\$ 342,727	\$ 2,611,102	\$ 15,982	\$ 59,737	\$ 19,567	\$ 3,049,114	\$ 3,348,145
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 156,378	\$ 78	\$ 29	\$ 156,486	\$ -	\$ -	\$ 302,253	\$ 2,178,309	\$ 3,947	\$ 31,276	\$ 17,571	\$ 2,533,395	\$ 2,689,843
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 86,090	\$ -	\$ -	\$ 86,090	\$ -	\$ -	\$ 283,504	\$ 2,035,803	\$ 4,284	\$ 17,218	\$ 16,565	\$ 2,357,375	\$ 2,443,465
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 78,580	\$ -	\$ -	\$ 78,580	\$ -	\$ -	\$ 263,042	\$ 1,902,620	\$ 2,478	\$ 15,716	\$ 15,249	\$ 2,199,104	\$ 2,277,684
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 70,495	\$ -	\$ -	\$ 70,495	\$ -	\$ -	\$ 247,624	\$ 1,778,149	\$ 3,742	\$ 14,098	\$ 14,501	\$ 2,058,115	\$ 2,128,609
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 64,242	\$ -	\$ -	\$ 64,242	\$ -	\$ -	\$ 234,770	\$ 1,661,822	\$ 7,245	\$ 12,848	\$ 14,031	\$ 1,930,716	\$ 1,994,958
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 75,283	\$ 56	\$ 56	\$ 75,395	\$ -	\$ -	\$ 195,982	\$ 1,411,913	\$ 2,140	\$ 15,057	\$ 12,557	\$ 1,637,649	\$ 1,713,044
2029	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 68,172	\$ 52	\$ 54	\$ 68,278	\$ -	\$ -	\$ 165,649	\$ 1,187,590	\$ 3,055	\$ 13,634	\$ 11,827	\$ 1,381,755	\$ 1,450,033
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 87,511	\$ 98	\$ 103	\$ 87,712	\$ -	\$ -	\$ 119,347	\$ 863,254	\$ 589	\$ 17,500	\$ 10,808	\$ 1,011,500	\$ 1,099,211
2031	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 58,569	\$ -	\$ -	\$ 58,569	\$ -	\$ -	\$ 112,816	\$ 806,779	\$ 2,668	\$ 11,714	\$ 10,305	\$ 944,282	\$ 1,002,851
2032	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 83,845	\$ 85	\$ 96	\$ 84,026	\$ -	\$ -	\$ 77,441	\$ 538,571	\$ 3,019	\$ 16,769	\$ 9,881	\$ 645,681	\$ 729,707
2033	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 140,882	\$ 199	\$ 231	\$ 141,312	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 28,176	\$ 8,675	\$ 36,852	\$ 178,164
2034	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 91,965	\$ -	\$ -	\$ 91,965	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 18,393	\$ 8,108	\$ 26,501	\$ 118,466
2035	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 85,949	\$ -	\$ -	\$ 85,949	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 17,190	\$ 7,577	\$ 24,767	\$ 110,716
Total PV	\$ 205,182	\$ 45,142	\$ 1,103,162	\$ 1,005,652	\$ 434	\$ 2,799,355	\$ 2,097	\$ 1,714	\$ 5,162,737	\$ 331,014	\$ 7,258,805	\$ 171,864	\$ 7,761,683	\$ 10,181,604	\$ 115,445,932	\$ 868,482	\$ 559,871	\$ 501,300	\$ 127,557,189	\$ 140,481,809
Annualized Value	\$ 17,607	\$ 3,874	\$ 94,663	\$ 86,296	\$ 37	\$ 240,214	\$ 180	\$ 147	\$ 443,017	\$ 28,404	\$ 622,882	\$ 14,748	\$ 666,034	\$ 873,689	\$ 9,906,475	\$ 74,525	\$ 48,043	\$ 43,017	\$ 10,945,748	\$ 12,054,800

C.43 Regulatory Alternative 2 Total Rule Costs by Rule Component and Cost Type (\$2008) - Period 1 (2011-2035) Unadjusted Values

Year	One-Time Costs								Capital Costs				O & M					TOTAL				
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL			
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,808,763	\$ 1,808,763	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 208,599	\$ 208,599	\$ 208,599	\$ 2,017,362		
2012	\$ 12,493,549	\$ 133,993	\$ 1,692,038	\$ 864,409	\$ 1,198	\$ 5,990	\$ 479	\$ 4,798	\$ 15,196,454	\$ 2,754,551	\$ 17,288,792	\$ 65,341	\$ 20,108,684	\$ 577,709	\$ 13,308	\$ -	\$ 1,198	\$ 208,599	\$ 800,814	\$ 36,105,952		
2013	\$ 12,493,549	\$ 133,993	\$ 1,692,038	\$ 864,409	\$ 1,198	\$ 5,990	\$ 479	\$ 4,798	\$ 15,196,454	\$ 2,754,551	\$ 17,288,792	\$ 65,341	\$ 20,108,684	\$ 957,058	\$ 2,504,517	\$ 5,780	\$ 1,198	\$ 208,779	\$ 3,677,332	\$ 38,982,470		
2014	\$ 24,987,099	\$ 267,985	\$ 3,384,075	\$ 1,728,817	\$ 2,396	\$ 11,981	\$ 958	\$ 9,597	\$ 30,392,909	\$ 5,509,102	\$ 34,577,584	\$ 130,682	\$ 40,217,368	\$ 1,914,116	\$ 5,009,035	\$ 5,780	\$ 2,396	\$ 208,958	\$ 7,140,284	\$ 77,750,561		
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,517,396	\$ 9,964,838	\$ 17,339	\$ -	\$ 209,317	\$ 11,708,891	\$ 11,708,891	
2016	\$ 24,987,099	\$ 267,985	\$ 3,384,075	\$ 1,728,817	\$ 2,396	\$ 11,981	\$ 958	\$ 9,597	\$ 30,392,909	\$ 5,509,102	\$ 34,577,584	\$ 130,682	\$ 40,217,368	\$ 2,672,814	\$ 9,991,453	\$ 5,780	\$ 2,396	\$ 209,317	\$ 12,881,760	\$ 83,492,037		
2017	\$ 68,032,745	\$ 793,037	\$ 9,646,390	\$ 4,448,986	\$ 8,645	\$ 43,226	\$ 3,458	\$ 33,245	\$ 83,009,733	\$ 14,280,807	\$ 108,697,341	\$ 435,305	\$ 123,413,453	\$ 6,616,848	\$ 15,036,047	\$ 42,468	\$ 8,645	\$ 210,395	\$ 21,914,400	\$ 228,337,585		
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,587,735	\$ 30,190,503	\$ 57,608	\$ -	\$ 211,691	\$ 36,047,537	\$ 36,047,537	
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,913,717	\$ 30,190,503	\$ 56,037	\$ -	\$ 212,409	\$ 37,372,666	\$ 37,372,666	
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,261,755	\$ 30,190,503	\$ 44,039	\$ -	\$ 210,973	\$ 34,707,267	\$ 34,707,267	
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,913,717	\$ 30,190,503	\$ 56,037	\$ -	\$ 212,409	\$ 37,372,666	\$ 37,372,666	
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 424,503	\$ 2,124	\$ 1,194	\$ 427,820	\$ -	\$ -	\$ -	\$ -	\$ 12,128,731	\$ 27,403,304	\$ 116,092	\$ 84,901	\$ 214,885	\$ 39,947,913	\$ 40,375,733
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ -	\$ 5,498,821	\$ 27,403,304	\$ 42,468	\$ 7,970	\$ 211,293	\$ 33,163,856	\$ 33,203,706	
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ -	\$ 6,824,803	\$ 27,403,304	\$ 61,817	\$ 7,970	\$ 212,011	\$ 34,509,905	\$ 34,549,755	
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ -	\$ 4,172,839	\$ 27,403,304	\$ 28,899	\$ 7,970	\$ 210,575	\$ 31,823,587	\$ 31,863,437	
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ -	\$ 6,824,803	\$ 27,403,304	\$ 61,817	\$ 18,590	\$ 212,011	\$ 34,520,525	\$ 34,560,375	
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ -	\$ 12,128,731	\$ 27,403,304	\$ 110,312	\$ 7,970	\$ 214,885	\$ 39,865,202	\$ 39,905,052	
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ -	\$ 5,498,821	\$ 27,403,304	\$ 48,248	\$ 7,970	\$ 211,293	\$ 33,169,636	\$ 33,209,486	
2029	\$ 470,840	\$ 85,033	\$ 1,521,722	\$ 1,387,215	\$ 1,198	\$ 45,840	\$ 479	\$ 861	\$ 3,513,188	\$ 456,607	\$ 10,372,681	\$ 276,840	\$ 11,106,127	\$ 6,933,131	\$ 27,459,912	\$ 56,037	\$ 9,168	\$ 212,011	\$ 34,669,259	\$ 49,288,574		
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ 39,850	\$ -	\$ -	\$ -	\$ 4,305,968	\$ 30,678,350	\$ 73,932	\$ 7,970	\$ 210,754	\$ 35,276,970	\$ 35,316,820	
2031	\$ 470,840	\$ 85,033	\$ 1,521,722	\$ 1,387,215	\$ 1,198	\$ 45,840	\$ 479	\$ 861	\$ 3,513,188	\$ 456,607	\$ 10,372,681	\$ 276,840	\$ 11,106,127	\$ 7,066,255	\$ 30,733,957	\$ 70,837	\$ 19,788	\$ 212,191	\$ 38,103,029	\$ 52,722,344		
2032	\$ 1,883,359	\$ 340,130	\$ 6,086,886	\$ 5,546,861	\$ 4,792	\$ 46,761	\$ 1,917	\$ 3,443	\$ 13,916,151	\$ 1,826,427	\$ 41,490,723	\$ 1,107,358	\$ 44,424,508	\$ 12,828,291	\$ 34,175,825	\$ 194,599	\$ 9,352	\$ 215,244	\$ 47,423,312	\$ 105,763,972		
2033	\$ 1,412,519	\$ 255,098	\$ 4,565,166	\$ 4,161,645	\$ 3,594	\$ 17,971	\$ 1,438	\$ 2,582	\$ 10,420,014	\$ 1,369,820	\$ 31,118,042	\$ 830,519	\$ 33,318,381	\$ 6,622,560	\$ 47,220,400	\$ 229,084	\$ 3,594	\$ 212,370	\$ 54,287,998	\$ 98,026,393		
2034	\$ 470,840	\$ 85,033	\$ 1,521,722	\$ 1,387,215	\$ 1,198	\$ 5,990	\$ 479	\$ 861	\$ 3,473,338	\$ 456,607	\$ 10,372,681	\$ 276,840	\$ 11,106,127	\$ 8,843,030	\$ 56,934,321	\$ 374,749	\$ 1,198	\$ 214,346	\$ 66,367,644	\$ 80,947,109		
2035	\$ 941,679	\$ 170,065	\$ 3,043,444	\$ 2,774,430	\$ 2,396	\$ 11,981	\$ 958	\$ 1,722	\$ 6,946,676	\$ 913,214	\$ 20,745,362	\$ 553,679	\$ 22,212,254	\$ 5,720,737	\$ 60,264,974	\$ 299,171	\$ 2,396	\$ 212,370	\$ 66,499,648	\$ 95,658,578		
Total	\$ 148,644,118	\$ 2,617,384	\$ 38,059,280	\$ 26,282,020	\$ 30,210	\$ 957,004	\$ 14,208	\$ 1,882,321	\$ 218,486,546	\$ 36,287,395	\$ 336,902,261	\$ 4,149,425	\$ 377,339,081	\$ 143,330,369	\$ 642,571,076	\$ 2,058,928	\$ 212,641	\$ 5,287,687	\$ 793,460,699	\$ 1,389,286,327		

C.44 Regulatory Alternative 2 Total Rule Costs by Rule Component and Cost Type (2008\$) - Period 1 (2011-2035) Present and Annualized Values Using a 3% Discount Rate

Year	One-Time Costs								Capital Costs				O & M								
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL	TOTAL	
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,808,763	\$ 1,808,763	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 227,584	\$ 227,584	\$ 2,036,347		
2012	\$ 12,129,660	\$ 130,090	\$ 1,642,755	\$ 839,232	\$ 1,163	\$ 5,816	\$ 465	\$ 4,181	\$ 14,753,362	\$ 2,674,322	\$ 16,785,235	\$ 63,438	\$ 19,522,994	\$ 560,882	\$ 12,920	\$ -	\$ 1,163	\$ 202,523	\$ 777,489	\$ 35,053,845	
2013	\$ 11,776,369	\$ 126,301	\$ 1,594,908	\$ 814,788	\$ 1,129	\$ 5,646	\$ 452	\$ 4,059	\$ 14,323,652	\$ 2,596,429	\$ 16,296,344	\$ 61,590	\$ 18,954,363	\$ 902,119	\$ 12,360,748	\$ 5,448	\$ 1,129	\$ 196,790	\$ 3,466,234	\$ 36,744,249	
2014	\$ 22,866,735	\$ 245,245	\$ 3,096,908	\$ 1,582,113	\$ 2,193	\$ 10,964	\$ 877	\$ 7,882	\$ 27,812,917	\$ 5,041,609	\$ 31,643,387	\$ 119,593	\$ 36,804,589	\$ 1,751,687	\$ 4,583,976	\$ 5,289	\$ 2,193	\$ 191,219	\$ 6,534,364	\$ 71,151,869	
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,348,187	\$ 8,853,629	\$ 15,406	\$ -	\$ 185,961	\$ 10,403,183
2016	\$ 21,554,091	\$ 231,167	\$ 2,919,133	\$ 1,491,293	\$ 2,067	\$ 10,335	\$ 827	\$ 7,430	\$ 26,216,341	\$ 4,752,200	\$ 29,826,927	\$ 112,727	\$ 34,691,855	\$ 2,305,593	\$ 8,618,716	\$ 4,986	\$ 2,067	\$ 180,545	\$ 11,111,905	\$ 72,020,102	
2017	\$ 56,976,353	\$ 664,156	\$ 8,078,700	\$ 3,725,956	\$ 7,240	\$ 28,896	\$ 25,782	\$ 69,517,285	\$ 11,959,951	\$ 91,032,312	\$ 364,561	\$ 103,356,824	\$ 5,541,503	\$ 12,592,452	\$ 35,566	\$ 7,240	\$ 176,167	\$ 18,352,930	\$ 191,227,036		
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,543,340	\$ 24,547,642	\$ 46,840	\$ -	\$ 172,073	\$ 29,309,895
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,457,752	\$ 23,832,662	\$ 44,236	\$ -	\$ 167,615	\$ 29,502,265
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,266,279	\$ 23,138,507	\$ 33,752	\$ -	\$ 161,658	\$ 26,600,195
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,144,455	\$ 22,464,570	\$ 41,697	\$ -	\$ 157,993	\$ 27,808,714
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 306,670	\$ 1,534	\$ 863	\$ 309,067	\$ -	\$ -	\$ -	\$ -	\$ 8,762,054	\$ 19,796,730	\$ 83,867	\$ 61,334	\$ 155,132	\$ 28,859,116
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,950	\$ -	\$ -	\$ 27,950	\$ -	\$ -	\$ -	\$ -	\$ 3,856,763	\$ 19,220,126	\$ 29,786	\$ 5,590	\$ 148,153	\$ 23,260,417
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,136	\$ -	\$ -	\$ 27,136	\$ -	\$ -	\$ -	\$ -	\$ 4,647,359	\$ 18,660,317	\$ 42,094	\$ 5,427	\$ 144,315	\$ 23,499,512
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 26,346	\$ -	\$ -	\$ 26,346	\$ -	\$ -	\$ -	\$ -	\$ 2,758,739	\$ 18,116,812	\$ 19,106	\$ 5,269	\$ 139,184	\$ 21,039,109
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,578	\$ -	\$ -	\$ 25,578	\$ -	\$ -	\$ -	\$ -	\$ 4,380,582	\$ 17,588,138	\$ 39,678	\$ 11,932	\$ 136,031	\$ 22,157,360
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,833	\$ -	\$ -	\$ 24,833	\$ -	\$ -	\$ -	\$ -	\$ 7,558,224	\$ 17,076,833	\$ 68,743	\$ 4,967	\$ 133,818	\$ 24,842,585
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,110	\$ -	\$ -	\$ 24,110	\$ -	\$ -	\$ -	\$ -	\$ 3,326,877	\$ 16,579,450	\$ 29,191	\$ 4,822	\$ 127,798	\$ 20,068,137
2029	\$ 276,569	\$ 49,948	\$ 893,851	\$ 814,843	\$ 704	\$ 26,926	\$ 281	\$ 247	\$ 2,063,369	\$ 268,208	\$ 6,092,857	\$ 162,614	\$ 6,523,679	\$ 4,072,484	\$ 16,129,217	\$ 32,916	\$ 5,38	\$ 124,488	\$ 20,364,489	\$ 28,951,537	
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,726	\$ -	\$ -	\$ 22,726	\$ -	\$ -	\$ -	\$ -	\$ 2,455,631	\$ 17,495,434	\$ 42,163	\$ 4,545	\$ 120,119	\$ 20,117,891
2031	\$ 260,693	\$ 47,080	\$ 842,541	\$ 768,067	\$ 663	\$ 25,381	\$ 265	\$ 233	\$ 1,944,923	\$ 252,812	\$ 5,743,102	\$ 153,279	\$ 6,149,193	\$ 3,912,414	\$ 17,016,647	\$ 39,221	\$ 10,956	\$ 117,397	\$ 21,096,635	\$ 29,190,752	
2032	\$ 1,012,398	\$ 182,837	\$ 3,272,002	\$ 2,982,786	\$ 2,576	\$ 25,136	\$ 1,030	\$ 904	\$ 7,479,671	\$ 981,795	\$ 22,303,308	\$ 595,259	\$ 23,880,362	\$ 6,895,839	\$ 18,371,190	\$ 10,467	\$ 5,027	\$ 115,540	\$ 25,492,203	\$ 56,852,236	
2033	\$ 737,183	\$ 133,134	\$ 2,382,526	\$ 2,171,932	\$ 1,876	\$ 9,379	\$ 750	\$ 658	\$ 5,437,438	\$ 714,899	\$ 16,240,273	\$ 433,441	\$ 17,388,613	\$ 3,456,259	\$ 24,643,972	\$ 119,557	\$ 1,876	\$ 110,553	\$ 28,332,218	\$ 51,158,269	
2034	\$ 238,571	\$ 43,085	\$ 771,044	\$ 702,890	\$ 607	\$ 3,035	\$ 243	\$ 213	\$ 1,759,689	\$ 231,359	\$ 5,255,752	\$ 140,272	\$ 5,627,383	\$ 4,480,690	\$ 28,848,151	\$ 189,882	\$ 607	\$ 108,044	\$ 33,627,375	\$ 41,014,446	
2035	\$ 463,244	\$ 83,661	\$ 1,497,173	\$ 1,364,836	\$ 1,179	\$ 5,894	\$ 471	\$ 414	\$ 3,416,871	\$ 449,241	\$ 10,205,343	\$ 272,373	\$ 10,926,957	\$ 2,814,223	\$ 29,646,374	\$ 147,172	\$ 1,179	\$ 104,059	\$ 32,713,007	\$ 47,056,836	
Total PV	\$ 128,291,864	\$ 1,936,703	\$ 26,991,540	\$ 17,258,736	\$ 21,397	\$ 650,062	\$ 10,093	\$ 1,861,629	\$ 177,022,025	\$ 29,922,823	\$ 251,424,840	\$ 2,479,149	\$ 283,826,813	\$ 94,199,934	\$ 410,196,211	\$ 1,221,202	\$ 142,709	\$ 3,785,774	\$ 509,545,830	\$ 970,394,667	
Annualized Value	\$ 7,367,529	\$ 111,221	\$ 1,550,067	\$ 991,132	\$ 1,229	\$ 37,332	\$ 580	\$ 106,909	\$ 10,165,998	\$ 1,718,404	\$ 14,438,793	\$ 142,372	\$ 16,299,570	\$ 5,409,702	\$ 23,556,695	\$ 70,131	\$ 8,195	\$ 217,409	\$ 29,262,132	\$ 55,727,700	

C.45 Regulatory Alternative 2 Total Rule Costs by Rule Component and Cost Type (2008\$) - Period 1 (2011-2035) Present and Annualized Values Using a 7% Discount Rate

Year	One-Time Costs								Capital Costs						O & M								
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL	TOTAL			
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,808,763	\$ 1,808,763	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 227,584	\$ 227,584	\$ 2,036,347			
2012	\$ 11,676,214	\$ 125,227	\$ 1,581,343	\$ 807,859	\$ 1,120	\$ 5,598	\$ 448	\$ 4,548	\$ 14,202,357	\$ 2,574,347	\$ 16,157,749	\$ 61,066	\$ 18,793,163	\$ 539,915	\$ 12,437	\$ -	\$ 1,120	\$ 194,952	\$ 748,424	\$ 33,743,944			
2013	\$ 10,912,350	\$ 117,034	\$ 1,477,891	\$ 755,008	\$ 1,046	\$ 5,232	\$ 419	\$ 4,312	\$ 13,273,293	\$ 2,405,932	\$ 15,100,700	\$ 57,071	\$ 17,563,703	\$ 835,931	\$ 2,187,542	\$ 5,048	\$ 1,046	\$ 182,361	\$ 3,211,929	\$ 34,048,925			
2014	\$ 20,396,916	\$ 218,756	\$ 2,762,413	\$ 1,411,230	\$ 1,956	\$ 9,780	\$ 782	\$ 8,179	\$ 24,810,012	\$ 4,497,069	\$ 28,225,608	\$ 106,675	\$ 32,829,352	\$ 1,562,489	\$ 4,088,864	\$ 4,718	\$ 1,956	\$ 170,587	\$ 5,828,614	\$ 63,467,978			
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,157,614	\$ 7,602,127	\$ 13,228	\$ -	\$ 159,725	
2016	\$ 17,815,456	\$ 191,070	\$ 2,412,799	\$ 1,232,623	\$ 1,708	\$ 8,542	\$ 683	\$ 7,366	\$ 21,670,247	\$ 3,927,914	\$ 24,653,339	\$ 93,174	\$ 28,674,428	\$ 1,905,679	\$ 7,123,768	\$ 4,121	\$ 1,708	\$ 149,285	\$ 4,093,863	\$ 9,184,562	\$ 59,529,237		
2017	\$ 45,333,091	\$ 528,434	\$ 6,427,797	\$ 2,964,547	\$ 5,761	\$ 28,804	\$ 2,304	\$ 24,349	\$ 55,315,086	\$ 9,515,904	\$ 72,429,628	\$ 290,062	\$ 82,235,594	\$ 4,409,083	\$ 10,019,153	\$ 28,298	\$ 5,761	\$ 140,324	\$ 14,602,619	\$ 152,153,299			
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,479,761	\$ 18,801,128	\$ 35,875	\$ -	\$ 132,079	\$ 22,448,842	\$ 22,448,842	
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,023,846	\$ 17,571,148	\$ 32,614	\$ -	\$ 123,957	\$ 21,751,565	\$ 21,751,565	
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,318,111	\$ 16,421,633	\$ 23,954	\$ -	\$ 114,978	\$ 18,878,677	\$ 18,878,677	
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,514,583	\$ 15,347,321	\$ 28,486	\$ -	\$ 108,356	\$ 18,998,747	\$ 18,998,747	
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 201,676	\$ 1,009	\$ 698	\$ 203,385	\$ -	\$ -	\$ -	\$ -	\$ 5,762,273	\$ 13,019,112	\$ 55,154	\$ 40,336	\$ 102,741	\$ 18,979,617	\$ 19,183,002	
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,694	\$ -	\$ 17,694	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,441,542	\$ 12,167,395	\$ 18,856	\$ 3,539	\$ 94,107	\$ 14,725,439	\$ 14,743,133	
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,536	\$ -	\$ 16,536	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,832,051	\$ 11,371,397	\$ 25,652	\$ 3,307	\$ 88,357	\$ 14,320,764	\$ 14,337,300	
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,455	\$ -	\$ 15,455	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,618,299	\$ 10,627,474	\$ 11,208	\$ 3,091	\$ 81,891	\$ 12,341,962	\$ 12,357,416	
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,443	\$ -	\$ 14,443	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,473,623	\$ 9,932,218	\$ 22,405	\$ 6,738	\$ 77,242	\$ 12,512,226	\$ 12,526,670	
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,499	\$ -	\$ 13,499	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,108,421	\$ 9,282,447	\$ 37,367	\$ 2,700	\$ 73,538	\$ 13,504,472	\$ 13,517,971	
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,615	\$ -	\$ 12,615	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,740,786	\$ 8,675,184	\$ 15,274	\$ 2,523	\$ 67,215	\$ 10,500,983	\$ 10,513,598	
2029	\$ 139,304	\$ 25,158	\$ 450,223	\$ 410,427	\$ 354	\$ 13,562	\$ 142	\$ 255	\$ 1,039,426	\$ 135,093	\$ 3,068,902	\$ 81,907	\$ 3,285,902	\$ 2,051,263	\$ 8,124,101	\$ 16,579	\$ 2,712	\$ 63,143	\$ 10,257,799	\$ 14,583,127			
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,019	\$ -	\$ 11,019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,190,633	\$ 8,482,819	\$ 20,443	\$ 2,204	\$ 58,518	\$ 9,754,619	\$ 9,765,638	
2031	\$ 121,674	\$ 21,974	\$ 393,242	\$ 358,483	\$ 310	\$ 11,846	\$ 124	\$ 222	\$ 907,875	\$ 117,996	\$ 2,680,498	\$ 71,541	\$ 2,870,034	\$ 1,826,055	\$ 7,942,239	\$ 18,306	\$ 5,114	\$ 55,256	\$ 9,846,969	\$ 13,624,877			
2032	\$ 454,856	\$ 82,146	\$ 1,470,063	\$ 1,340,122	\$ 1,157	\$ 11,293	\$ 463	\$ 832	\$ 3,360,933	\$ 441,106	\$ 10,020,553	\$ 267,441	\$ 10,729,100	\$ 3,098,200	\$ 8,253,909	\$ 46,998	\$ 2,259	\$ 52,764	\$ 11,454,130	\$ 25,544,163			
2033	\$ 318,824	\$ 57,579	\$ 1,030,418	\$ 939,338	\$ 811	\$ 4,056	\$ 325	\$ 583	\$ 2,351,934	\$ 309,186	\$ 7,023,752	\$ 187,459	\$ 7,520,397	\$ 1,494,797	\$ 10,658,266	\$ 51,707	\$ 811	\$ 48,269	\$ 12,253,850	\$ 22,126,182			
2034	\$ 99,322	\$ 17,937	\$ 321,003	\$ 292,629	\$ 253	\$ 1,264	\$ 101	\$ 182	\$ 732,690	\$ 96,320	\$ 2,188,085	\$ 58,398	\$ 2,342,803	\$ 1,865,410	\$ 12,010,118	\$ 79,052	\$ 253	\$ 45,638	\$ 14,000,470	\$ 17,075,963			
2035	\$ 185,649	\$ 33,528	\$ 600,005	\$ 546,970	\$ 472	\$ 2,362	\$ 189	\$ 339	\$ 1,369,514	\$ 180,037	\$ 4,089,878	\$ 109,156	\$ 4,379,071	\$ 1,127,824	\$ 11,881,036	\$ 58,981	\$ 472	\$ 42,112	\$ 13,110,425	\$ 18,859,008			
Total PV	\$ 107,453,656	\$ 1,418,843	\$ 18,927,196	\$ 11,059,236	\$ 14,949	\$ 405,279	\$ 6,989	\$ 1,860,627	\$ 141,146,775	\$ 24,200,904	\$ 185,638,692	\$ 1,383,952	\$ 211,223,548	\$ 57,378,191	\$ 241,602,837	\$ 654,325	\$ 87,649	\$ 2,635,995	\$ 302,358,996	\$ 654,729,319			
Annualized Value	\$ 9,220,654	\$ 121,752	\$ 1,624,153	\$ 948,999	\$ 1,283	\$ 34,777	\$ 600	\$ 159,661	\$ 12,111,878	\$ 2,076,692	\$ 15,929,752	\$ 118,758	\$ 18,125,202	\$ 4,923,652	\$ 20,732,064	\$ 56,148	\$ 7,521	\$ 226,196	\$ 25,945,582	\$ 56,182,661			

C.46 Regulatory Alternative 2 Total Rule Costs by Rule Component and Cost Type (\$2008)- Period 2 (2036-2060) Unadjusted Values

Year	One -Time Costs							Capital Costs					O & M					TOTAL			
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL		
2011	\$ 1,412,519	\$ 255,098	\$ 4,565,166	\$ 4,161,645	\$ 3,594	\$ 17,971	\$ 1,438	\$ 2,582	\$ 10,420,014	\$ 1,369,820	\$ 31,118,042	\$ 830,519	\$ 33,318,381	\$ 9,459,059	\$ 66,870,673	\$ 468,057	\$ 3,594	\$ 214,885	\$ 77,016,267	\$ 120,754,662	
2012	\$ 470,840	\$ 85,033	\$ 1,521,722	\$ 1,387,215	\$ 1,198	\$ 5,990	\$ 479	\$ 861	\$ 3,473,338	\$ 456,607	\$ 10,372,681	\$ 276,840	\$ 11,106,127	\$ 17,081,046	\$ 76,584,594	\$ 757,791	\$ 1,198	\$ 220,452	\$ 94,645,083	\$ 109,224,548	
2013	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,764,153	\$ 79,804,032	\$ 653,066	\$ -	\$ 216,322	\$ 90,437,572	\$ 90,437,572
2014	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,378,353	\$ 79,804,032	\$ 603,394	\$ -	\$ 216,322	\$ 91,002,101	\$ 91,002,101
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 959,629	\$ 958	\$ 539	\$ 961,126	\$ -	\$ -	\$ -	\$ -	\$ 7,593,265	\$ 76,528,987	\$ 542,782	\$ 191,926	\$ 214,705	\$ 85,071,665	\$ 86,032,791
2016	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 70,375	\$ -	\$ -	\$ 70,375	\$ -	\$ -	\$ -	\$ -	\$ 11,668,792	\$ 76,528,987	\$ 703,516	\$ 14,075	\$ 217,579	\$ 89,132,947	\$ 89,203,322
2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,030,004	\$ 958	\$ 539	\$ 1,031,501	\$ -	\$ -	\$ -	\$ -	\$ 17,551,377	\$ 73,253,941	\$ 757,325	\$ 206,001	\$ 220,991	\$ 91,989,635	\$ 93,021,136
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,979,266	\$ 3,834	\$ 2,155	\$ 3,985,255	\$ -	\$ -	\$ -	\$ -	\$ 8,865,407	\$ 60,153,759	\$ 460,670	\$ 795,853	\$ 215,244	\$ 70,590,934	\$ 74,576,189
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,301,136	\$ 2,875	\$ 1,616	\$ 3,305,627	\$ -	\$ -	\$ -	\$ -	\$ 8,468,454	\$ 50,328,623	\$ 296,241	\$ 665,019	\$ 213,987	\$ 59,972,324	\$ 63,277,952
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,593,001	\$ 958	\$ 539	\$ 1,594,498	\$ -	\$ -	\$ -	\$ -	\$ 6,395,147	\$ 47,053,577	\$ 305,984	\$ 318,600	\$ 213,089	\$ 54,286,398	\$ 55,880,896
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,623,005	\$ 1,917	\$ 1,078	\$ 2,625,999	\$ -	\$ -	\$ -	\$ -	\$ 9,492,644	\$ 40,503,486	\$ 317,856	\$ 529,393	\$ 214,885	\$ 51,058,264	\$ 53,684,263
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,723,383	\$ 2,875	\$ 1,616	\$ 3,727,875	\$ -	\$ -	\$ -	\$ -	\$ 12,973,637	\$ 30,678,350	\$ 182,574	\$ 763,846	\$ 215,783	\$ 44,814,189	\$ 48,542,064
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,015,249	\$ 958	\$ 539	\$ 2,016,746	\$ -	\$ -	\$ -	\$ -	\$ 5,498,821	\$ 27,403,304	\$ 48,248	\$ 417,426	\$ 211,293	\$ 33,579,092	\$ 35,595,838
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,125,994	\$ -	\$ -	\$ 1,125,994	\$ -	\$ -	\$ -	\$ -	\$ 6,824,803	\$ 27,403,304	\$ 56,037	\$ 234,783	\$ 212,011	\$ 34,730,939	\$ 35,856,933
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,099,708	\$ -	\$ -	\$ 1,099,708	\$ -	\$ -	\$ -	\$ -	\$ 4,172,839	\$ 27,403,304	\$ 34,879	\$ 229,526	\$ 210,575	\$ 32,050,923	\$ 33,150,631
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,055,620	\$ -	\$ -	\$ 1,055,620	\$ -	\$ -	\$ -	\$ -	\$ 6,824,803	\$ 27,403,304	\$ 56,037	\$ 230,293	\$ 212,011	\$ 34,726,448	\$ 35,782,068
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,029,333	\$ -	\$ -	\$ 1,029,333	\$ -	\$ -	\$ -	\$ -	\$ 12,128,731	\$ 27,403,304	\$ 116,092	\$ 229,828	\$ 214,885	\$ 40,092,840	\$ 41,122,174
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,325,231	\$ 958	\$ 539	\$ 1,326,728	\$ -	\$ -	\$ -	\$ -	\$ 5,119,472	\$ 24,912,095	\$ 36,688	\$ 279,423	\$ 211,113	\$ 30,558,791	\$ 31,885,519
2029	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,285,125	\$ 958	\$ 539	\$ 1,286,622	\$ -	\$ -	\$ -	\$ -	\$ 6,066,105	\$ 22,420,885	\$ 56,037	\$ 261,817	\$ 211,652	\$ 29,016,496	\$ 30,303,119
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,786,811	\$ 1,917	\$ 1,078	\$ 1,789,806	\$ -	\$ -	\$ -	\$ -	\$ 2,655,443	\$ 17,438,466	\$ 11,560	\$ 366,947	\$ 209,856	\$ 20,682,272	\$ 22,472,077
2031	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,230,101	\$ -	\$ -	\$ 1,230,101	\$ -	\$ -	\$ -	\$ -	\$ 5,307,407	\$ 17,438,466	\$ 56,037	\$ 260,397	\$ 211,293	\$ 23,273,600	\$ 24,503,701
2032	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,953,328	\$ 1,917	\$ 1,078	\$ 1,956,322	\$ -	\$ -	\$ -	\$ -	\$ 8,526,655	\$ 12,456,047	\$ 67,844	\$ 400,250	\$ 213,089	\$ 21,663,886	\$ 23,620,208
2033	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,560,382	\$ 4,792	\$ 2,694	\$ 3,567,868	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 716,869	\$ 208,599	\$ 925,468	\$ 4,493,336
2034	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,366,171	\$ -	\$ -	\$ 2,366,171	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 482,819	\$ 208,599	\$ 691,418	\$ 3,057,589
2035	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,366,171	\$ -	\$ -	\$ 2,366,171	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 473,234	\$ 208,599	\$ 681,833	\$ 3,048,005
Total	\$ 1,883,359	\$ 340,130	\$ 6,086,888	\$ 5,548,861	\$ 4,792	\$ 39,502,986	\$ 27,795	\$ 17,990	\$ 53,412,802	\$ 1,826,427	\$ 41,490,723	\$ 1,107,358	\$ 44,424,508	\$ 192,916,417	\$ 989,775,519	\$ 6,588,513	\$ 8,073,118	\$ 5,337,818	\$ 1,202,691,385	\$ 1,300,528,695	

C.47 Regulatory Alternative 2 Total Rule Costs by Rule Component and Cost Type (\$2008) - Period 2 (2036-2060) Present and Annualized Values Using a 3% Discount Rate

Year	One-Time Costs										Capital Costs						O & M					
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL	TOTAL		
2011	\$ 674,627	\$ 121,836	\$ 2,180,349	\$ 1,987,625	\$ 1,717	\$ 8,583	\$ 687	\$ 1,233	\$ 4,976,657	\$ 654,234	\$ 14,862,150	\$ 396,660	\$ 15,913,044	\$ 4,517,699	\$ 31,937,806	\$ 223,547	\$ 1,717	\$ 102,630	\$ 36,783,398	\$ 57,673,099		
2012	\$ 218,326	\$ 39,429	\$ 705,614	\$ 643,244	\$ 556	\$ 2,778	\$ 222	\$ 807	\$ 1,610,977	\$ 211,726	\$ 4,809,757	\$ 128,369	\$ 5,149,853	\$ 7,920,392	\$ 35,511,872	\$ 351,384	\$ 556	\$ 101,639	\$ 43,885,843	\$ 50,646,672		
2013	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 595	\$ 595	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,395,715	\$ 35,926,902	\$ 294,003	\$ -	\$ 96,964	\$ 40,713,584	\$ 40,714,178	
2014	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 577	\$ 577	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,536,137	\$ 34,880,487	\$ 263,729	\$ -	\$ 94,272	\$ 39,774,625	\$ 39,775,202	
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 407,215	\$ 407	\$ 688	\$ 408,310	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,222,174	\$ 32,474,797	\$ 230,328	\$ 81,443	\$ 90,888	\$ 36,099,630	\$ 36,507,940	
2016	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 28,993	\$ -	\$ 544	\$ 29,538	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,807,388	\$ 31,528,929	\$ 289,839	\$ 5,799	\$ 89,149	\$ 36,721,104	\$ 36,720,641	
2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 411,988	\$ 383	\$ 648	\$ 413,020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,020,325	\$ 29,300,635	\$ 302,920	\$ 82,398	\$ 87,795	\$ 36,794,073	\$ 37,207,093	
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,545,296	\$ 1,489	\$ 980	\$ 1,547,765	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,481,600	\$ 23,359,932	\$ 178,895	\$ 309,059	\$ 83,409	\$ 27,412,895	\$ 28,960,660	
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,244,615	\$ 1,084	\$ 838	\$ 1,246,537	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,192,829	\$ 18,975,212	\$ 111,691	\$ 250,730	\$ 80,828	\$ 22,611,290	\$ 23,857,827	
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 583,110	\$ 351	\$ 593	\$ 584,054	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,340,911	\$ 17,223,722	\$ 112,004	\$ 116,622	\$ 78,070	\$ 19,871,329	\$ 20,455,384	
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 932,172	\$ 681	\$ 683	\$ 933,537	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,373,524	\$ 14,394,266	\$ 112,961	\$ 188,138	\$ 76,366	\$ 18,145,259	\$ 19,078,796	
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,284,688	\$ 992	\$ 767	\$ 1,286,447	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,476,325	\$ 10,585,025	\$ 62,994	\$ 263,552	\$ 74,730	\$ 15,462,627	\$ 16,749,073	
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 675,074	\$ 321	\$ 543	\$ 675,938	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,842,011	\$ 9,179,639	\$ 16,162	\$ 139,831	\$ 71,211	\$ 11,248,854	\$ 11,924,792	
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 366,203	\$ -	\$ 430	\$ 366,632	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,219,609	\$ 8,912,271	\$ 18,225	\$ 76,358	\$ 69,365	\$ 11,295,823	\$ 11,662,455	
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 347,237	\$ -	\$ 417	\$ 347,654	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,317,584	\$ 8,652,690	\$ 10,950	\$ 72,474	\$ 66,901	\$ 10,120,604	\$ 10,468,258	
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 323,607	\$ -	\$ 405	\$ 324,012	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,092,190	\$ 8,400,670	\$ 17,178	\$ 70,598	\$ 65,383	\$ 10,646,020	\$ 10,970,032	
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 306,358	\$ -	\$ 393	\$ 306,752	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,809,850	\$ 8,155,991	\$ 34,552	\$ 68,403	\$ 64,314	\$ 11,933,110	\$ 12,239,862	
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 382,938	\$ 277	\$ 534	\$ 383,748	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,479,319	\$ 7,198,580	\$ 10,601	\$ 80,742	\$ 61,376	\$ 8,830,618	\$ 9,214,366	
2029	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 360,533	\$ 269	\$ 518	\$ 361,320	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,701,803	\$ 6,290,021	\$ 15,721	\$ 73,451	\$ 59,736	\$ 8,140,732	\$ 8,502,052	
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 486,677	\$ 522	\$ 646	\$ 487,845	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 723,268	\$ 4,749,746	\$ 3,149	\$ 99,946	\$ 57,519	\$ 5,633,627	\$ 6,121,472	
2031	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 325,286	\$ -	\$ 349	\$ 325,636	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,403,483	\$ 4,611,404	\$ 14,818	\$ 68,859	\$ 56,214	\$ 6,154,779	\$ 6,480,415	
2032	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 501,491	\$ 492	\$ 609	\$ 502,592	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,189,104	\$ 3,197,922	\$ 17,418	\$ 102,759	\$ 55,027	\$ 5,562,231	\$ 6,064,823	
2033	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 887,456	\$ 1,195	\$ 985	\$ 889,636	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 178,686	\$ 52,332	
2034	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 572,611	\$ -	\$ 320	\$ 572,930	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 116,842	\$ 50,807	
2035	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 555,933	\$ -	\$ 310	\$ 556,243	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 111,187	\$ 49,328	
Total PV	\$ 892,953	\$ 161,265	\$ 2,885,963	\$ 2,630,869	\$ 2,272	\$ 12,540,843	\$ 9,372	\$ 15,413	\$ 19,138,951	\$ 865,960	\$ 19,671,908	\$ 525,029	\$ 21,062,897	\$ 71,863,245	\$ 385,448,521	\$ 2,693,069	\$ 2,560,145	\$ 1,836,254	\$ 464,401,234	\$ 504,603,081		
Annualized Value	\$ 51,280	\$ 9,261	\$ 165,735	\$ 151,085	\$ 130	\$ 720,194	\$ 538	\$ 885	\$ 1,099,109	\$ 49,730	\$ 1,129,716	\$ 30,151	\$ 1,209,597	\$ 4,126,953	\$ 22,135,488	\$ 154,657	\$ 147,024	\$ 105,452	\$ 26,669,574	\$ 28,978,281		

C.48 Regulatory Alternative 2 Total Rule Costs by Rule Component and Cost Type (\$2008) - Period 2 (2036-2060) Present and Annualized Values Using a 7% Discount Rate

Year	One-Time Costs							Capital Costs							O & M									
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL	TOTAL				
2011	\$ 260,255	\$ 47,002	\$ 841,128	\$ 765,780	\$ 662	\$ 3,311	\$ 265	\$ 476	\$ 1,919,879	\$ 252,388	\$ 5,733,474	\$ 153,022	\$ 6,138,884	\$ 1,742,824	\$ 12,320,866	\$ 86,239	\$ 662	\$ 39,592	\$ 14,190,184	\$ 22,248,947				
2012	\$ 81,076	\$ 14,642	\$ 262,034	\$ 238,872	\$ 206	\$ 1,032	\$ 83	\$ 148	\$ 598,093	\$ 78,626	\$ 1,786,129	\$ 47,671	\$ 1,912,425	\$ 2,941,279	\$ 13,187,522	\$ 130,488	\$ 206	\$ 38,728	\$ 16,298,224	\$ 18,808,742				
2013	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,571,349	\$ 12,842,892	\$ 105,098	\$ -	\$ 35,139	\$ 14,554,478	\$ 14,554,478
2014	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,560,927	\$ 12,002,703	\$ 90,752	\$ -	\$ 32,945	\$ 13,687,327	\$ 13,687,327
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 134,888	\$ 135	\$ 76	\$ 135,099	\$ -	\$ -	\$ -	\$ -	\$ 1,067,331	\$ 10,757,130	\$ 76,295	\$ 26,978	\$ 30,414	\$ 11,958,148	\$ 12,093,246	
2016	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,245	\$ -	\$ 9,245	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,532,894	\$ 10,053,392	\$ 92,419	\$ 1,849	\$ 28,984	\$ 11,709,539	\$ 11,718,784	
2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 126,457	\$ 118	\$ 66	\$ 126,640	\$ -	\$ -	\$ -	\$ -	\$ 2,154,835	\$ 8,993,607	\$ 92,979	\$ 25,291	\$ 27,862	\$ 11,294,574	\$ 11,421,214	
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 456,586	\$ 440	\$ 247	\$ 457,273	\$ -	\$ -	\$ -	\$ -	\$ 1,028,701	\$ 6,902,110	\$ 52,858	\$ 91,317	\$ 25,006	\$ 8,099,992	\$ 8,557,265	
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 353,996	\$ 308	\$ 173	\$ 354,478	\$ -	\$ -	\$ -	\$ -	\$ 908,112	\$ 5,396,975	\$ 31,767	\$ 71,313	\$ 23,332	\$ 6,431,500	\$ 6,785,978	
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 159,650	\$ 96	\$ 54	\$ 159,800	\$ -	\$ -	\$ -	\$ -	\$ 640,917	\$ 4,715,679	\$ 30,666	\$ 31,930	\$ 21,576	\$ 5,440,767	\$ 5,600,567	
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 245,678	\$ 180	\$ 101	\$ 245,959	\$ -	\$ -	\$ -	\$ -	\$ 889,109	\$ 3,793,676	\$ 29,771	\$ 49,585	\$ 20,501	\$ 4,782,641	\$ 5,028,600	
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 325,928	\$ 252	\$ 141	\$ 326,321	\$ -	\$ -	\$ -	\$ -	\$ 1,135,653	\$ 2,685,443	\$ 15,982	\$ 66,864	\$ 19,567	\$ 3,923,508	\$ 4,249,830	
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 164,865	\$ 78	\$ 44	\$ 164,988	\$ -	\$ -	\$ -	\$ -	\$ 449,852	\$ 2,241,832	\$ 3,947	\$ 34,149	\$ 17,571	\$ 2,747,352	\$ 2,912,340	
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 86,090	\$ -	\$ 86,090	\$ -	\$ -	\$ -	\$ -	\$ 521,803	\$ 2,095,171	\$ 4,284	\$ 17,951	\$ 16,565	\$ 2,655,774	\$ 2,741,864		
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 78,580	\$ -	\$ -	\$ 78,580	\$ -	\$ -	\$ -	\$ -	\$ 298,170	\$ 1,958,103	\$ 2,478	\$ 16,401	\$ 15,249	\$ 2,290,401	\$ 2,368,981	
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 70,495	\$ -	\$ 70,495	\$ -	\$ -	\$ -	\$ -	\$ 455,763	\$ 1,830,003	\$ 3,742	\$ 15,379	\$ 14,501	\$ 2,319,388	\$ 2,389,883		
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 64,242	\$ -	\$ 64,242	\$ -	\$ -	\$ -	\$ -	\$ 756,973	\$ 1,710,283	\$ 7,245	\$ 14,344	\$ 14,031	\$ 2,502,876	\$ 2,567,119		
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 77,299	\$ 56	\$ 83	\$ 77,438	\$ -	\$ -	\$ -	\$ -	\$ 298,611	\$ 1,453,087	\$ 2,140	\$ 16,298	\$ 12,557	\$ 1,782,693	\$ 1,860,132	
2029	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 70,056	\$ 52	\$ 80	\$ 70,188	\$ -	\$ -	\$ -	\$ -	\$ 330,680	\$ 1,222,223	\$ 3,055	\$ 14,272	\$ 11,827	\$ 1,582,056	\$ 1,652,244	
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 91,032	\$ 98	\$ 155	\$ 91,284	\$ -	\$ -	\$ -	\$ -	\$ 135,285	\$ 888,428	\$ 589	\$ 18,695	\$ 10,808	\$ 1,053,805	\$ 1,145,089	
2031	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 58,569	\$ -	\$ 58,569	\$ -	\$ -	\$ -	\$ -	\$ 252,704	\$ 830,306	\$ 2,668	\$ 12,398	\$ 10,305	\$ 1,108,382	\$ 1,166,951		
2032	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 86,920	\$ 85	\$ 144	\$ 87,149	\$ -	\$ -	\$ -	\$ -	\$ 379,424	\$ 554,277	\$ 3,019	\$ 17,811	\$ 9,881	\$ 964,411	\$ 1,051,561	
2033	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 148,067	\$ 199	\$ 346	\$ 148,613	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 29,813	\$ 6,675	\$ 38,486	\$ 187,101	
2034	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 91,965	\$ -	\$ 91,965	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 18,766	\$ 8,108	\$ 26,873	\$ 118,839		
2035	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 85,949	\$ -	\$ 85,949	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 17,190	\$ 7,577	\$ 24,767	\$ 110,716		
Total PV	\$ 341,332	\$ 61,644	\$ 1,103,162	\$ 1,005,652	\$ 869	\$ 2,990,900	\$ 2,444	\$ 2,336	\$ 5,508,337	\$ 331,014	\$ 7,519,603	\$ 200,693	\$ 8,051,309	\$ 21,053,200	\$ 118,435,707	\$ 868,482	\$ 609,461	\$ 501,300	\$ 141,468,149	\$ 155,027,796				
Annualized Value	\$ 29,290	\$ 5,290	\$ 94,663	\$ 86,296	\$ 75	\$ 256,651	\$ 210	\$ 200	\$ 472,673	\$ 28,404	\$ 645,261	\$ 17,222	\$ 690,887	\$ 1,806,586	\$ 10,163,029	\$ 74,525	\$ 52,298	\$ 43,017	\$ 12,139,455	\$ 13,303,015				

C.49 Regulatory Alternative 3 Total Rule Costs by Rule Component and Cost Type (\$2008) - Period 1 (2011-2035) Unadjusted Values

Year	One-Time Costs							Capital Costs					O & M					TOTAL				
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL			
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,808,763	\$ 1,808,763	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 208,599	\$ 208,599	\$ 2,017,362			
2012	\$ 19,048,033	\$ 269,475	\$ 1,692,038	\$ 1,088,897	\$ 2,396	\$ 11,981	\$ 479	\$ 4,893	\$ 22,118,192	\$ 8,533,851	\$ 17,423,813	\$ 65,341	\$ 26,023,005	\$ 1,760,665	\$ 13,547	\$ -	\$ 2,396	\$ 208,599	\$ 1,985,208	\$ 50,126,405		
2013	\$ 19,048,033	\$ 269,475	\$ 1,692,038	\$ 1,088,897	\$ 2,396	\$ 11,981	\$ 479	\$ 4,893	\$ 22,118,192	\$ 8,533,851	\$ 17,423,813	\$ 65,341	\$ 26,023,005	\$ 2,520,860	\$ 2,804,914	\$ 93,395	\$ 2,396	\$ 208,779	\$ 5,630,344	\$ 53,771,541		
2014	\$ 38,096,066	\$ 538,951	\$ 3,384,075	\$ 2,177,794	\$ 4,792	\$ 23,961	\$ 958	\$ 9,786	\$ 44,236,384	\$ 17,067,702	\$ 34,847,627	\$ 130,682	\$ 52,046,011	\$ 5,041,721	\$ 5,609,828	\$ 186,789	\$ 4,792	\$ 208,958	\$ 11,052,089	\$ 107,334,483		
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,040,781	\$ 11,165,467	\$ 373,578	\$ -	\$ 209,317	\$ 14,789,143	\$ 14,789,143	
2016	\$ 38,096,066	\$ 538,951	\$ 3,384,075	\$ 2,177,794	\$ 4,792	\$ 23,961	\$ 958	\$ 9,786	\$ 44,236,384	\$ 17,067,702	\$ 34,847,627	\$ 130,682	\$ 52,046,011	\$ 6,562,111	\$ 11,192,562	\$ 373,578	\$ 4,792	\$ 209,317	\$ 18,342,361	\$ 114,624,755		
2017	\$ 103,656,858	\$ 1,627,940	\$ 9,646,390	\$ 5,619,585	\$ 17,291	\$ 86,453	\$ 3,458	\$ 33,916	\$ 120,691,891	\$ 45,916,975	\$ 109,573,329	\$ 435,305	\$ 155,925,609	\$ 15,439,295	\$ 16,838,719	\$ 616,853	\$ 17,291	\$ 211,068	\$ 33,123,226	\$ 309,740,726		
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,027,558	\$ 33,656,635	\$ 1,236,988	\$ -	\$ 212,364	\$ 45,133,546	\$ 45,133,546	
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,396,699	\$ 33,656,635	\$ 1,293,474	\$ -	\$ 213,756	\$ 46,560,564	\$ 46,560,564	
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,658,418	\$ 33,656,635	\$ 1,180,502	\$ -	\$ 210,973	\$ 43,706,527	\$ 43,706,527	
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,396,699	\$ 33,656,635	\$ 1,293,474	\$ -	\$ 213,756	\$ 46,560,564	\$ 46,560,564	
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 722,475	\$ 2,124	\$ 1,194	\$ 725,793	\$ -	\$ -	\$ -	\$ -	\$ 16,576,990	\$ 30,705,034	\$ 1,366,258	\$ 144,495	\$ 218,926	\$ 49,011,703	\$ 49,737,495
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ -	\$ -	\$ 9,731,287	\$ 30,705,034	\$ 1,083,826	\$ 36,654	\$ 211,966	\$ 41,768,768	\$ 41,952,038
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ -	\$ -	\$ 11,100,428	\$ 30,705,034	\$ 1,140,312	\$ 36,654	\$ 213,358	\$ 43,195,786	\$ 43,379,056
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ -	\$ -	\$ 8,362,147	\$ 30,705,034	\$ 1,027,340	\$ 36,654	\$ 210,575	\$ 40,341,749	\$ 40,525,019
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ -	\$ -	\$ 11,100,428	\$ 30,705,034	\$ 1,140,312	\$ 599,047	\$ 213,358	\$ 43,758,179	\$ 43,941,449
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ -	\$ -	\$ 16,576,990	\$ 30,705,034	\$ 1,366,258	\$ 36,654	\$ 218,926	\$ 48,903,862	\$ 49,087,132
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ -	\$ -	\$ 9,731,287	\$ 30,705,034	\$ 1,083,826	\$ 36,654	\$ 211,966	\$ 41,768,768	\$ 41,952,038
2029	\$ 711,132	\$ 171,555	\$ 1,521,722	\$ 1,799,010	\$ 2,396	\$ 195,251	\$ 479	\$ 875	\$ 4,402,419	\$ 1,693,749	\$ 10,372,681	\$ 276,840	\$ 12,343,270	\$ 11,473,489	\$ 30,760,881	\$ 1,140,312	\$ 39,050	\$ 213,358	\$ 43,627,090	\$ 60,372,779		
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ -	\$ -	\$ 8,631,117	\$ 34,109,049	\$ 1,330,114	\$ 36,654	\$ 210,754	\$ 44,317,684	\$ 44,500,958
2031	\$ 711,132	\$ 171,555	\$ 1,521,722	\$ 1,799,010	\$ 2,396	\$ 195,251	\$ 479	\$ 875	\$ 4,402,419	\$ 1,693,749	\$ 10,372,681	\$ 276,840	\$ 12,343,270	\$ 11,742,459	\$ 34,164,897	\$ 1,443,087	\$ 601,443	\$ 213,538	\$ 48,165,422	\$ 64,911,111		
2032	\$ 2,844,526	\$ 686,220	\$ 6,086,888	\$ 7,196,036	\$ 9,584	\$ 231,192	\$ 1,917	\$ 3,500	\$ 17,059,868	\$ 6,774,997	\$ 41,490,723	\$ 1,107,356	\$ 49,373,078	\$ 18,607,173	\$ 37,736,453	\$ 1,971,806	\$ 46,238	\$ 219,285	\$ 58,580,956	\$ 125,013,902		
2033	\$ 2,133,396	\$ 514,665	\$ 4,565,166	\$ 5,397,029	\$ 7,188	\$ 219,212	\$ 1,438	\$ 2,625	\$ 12,840,718	\$ 5,081,248	\$ 31,118,042	\$ 630,519	\$ 37,029,809	\$ 12,464,290	\$ 51,296,669	\$ 2,900,471	\$ 43,842	\$ 213,044	\$ 66,918,315	\$ 116,788,842		
2034	\$ 711,132	\$ 171,555	\$ 1,521,722	\$ 1,799,010	\$ 2,396	\$ 195,251	\$ 479	\$ 875	\$ 4,402,419	\$ 1,693,749	\$ 10,372,681	\$ 276,840	\$ 12,343,270	\$ 14,734,964	\$ 61,397,021	\$ 4,056,193	\$ 39,050	\$ 216,366	\$ 80,443,595	\$ 97,189,284		
2035	\$ 1,422,264	\$ 343,110	\$ 3,043,444	\$ 3,598,019	\$ 4,792	\$ 207,231	\$ 958	\$ 1,750	\$ 8,621,569	\$ 3,387,498	\$ 20,745,362	\$ 553,679	\$ 24,686,539	\$ 11,797,968	\$ 64,856,884	\$ 4,055,081	\$ 41,446	\$ 212,370	\$ 80,963,750	\$ 114,271,858		
Total	\$ 226,478,640	\$ 5,303,452	\$ 38,059,280	\$ 33,741,082	\$ 60,421	\$ 3,407,088	\$ 14,208	\$ 1,883,730	\$ 308,947,901	\$ 117,445,072	\$ 338,588,379	\$ 4,149,425	\$ 460,182,876	\$ 248,475,824	\$ 711,508,669	\$ 31,753,826	\$ 1,806,203	\$ 5,313,279	\$ 998,857,801	\$ 1,767,986,578		

C.50 Regulatory Alternative 3 Total Rule Costs by Rule Component and Cost Type (2008\$) - Period 1 (2011-2035) Present and Annualized Values Using a 3% Discount Rate

Year	One-Time Costs							Capital Costs							O & M						
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL	TOTAL	
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,808,763	\$ 1,808,763	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 227,584	\$ 227,584	\$ 2,036,347		
2012	\$ 18,493,236	\$ 261,627	\$ 1,642,755	\$ 1,057,182	\$ 2,326	\$ 11,632	\$ 465	\$ 4,269	\$ 21,473,491	\$ 8,285,292	\$ 16,916,324	\$ 63,438	\$ 25,265,054	\$ 1,709,384	\$ 13,153	\$ -	\$ 2,326	\$ 202,523	\$ 1,927,386	\$ 48,665,931	
2013	\$ 17,954,598	\$ 254,006	\$ 1,594,908	\$ 1,026,390	\$ 2,259	\$ 11,293	\$ 452	\$ 4,144	\$ 20,848,050	\$ 8,043,973	\$ 16,423,615	\$ 61,590	\$ 24,529,178	\$ 2,376,153	\$ 2,643,901	\$ 88,033	\$ 2,259	\$ 196,790	\$ 5,307,135	\$ 50,684,363	
2014	\$ 34,863,297	\$ 493,216	\$ 3,096,908	\$ 1,992,990	\$ 4,386	\$ 21,928	\$ 877	\$ 8,047	\$ 40,481,650	\$ 15,619,365	\$ 31,890,515	\$ 119,593	\$ 47,629,473	\$ 4,613,889	\$ 5,133,788	\$ 170,938	\$ 4,386	\$ 191,219	\$ 10,114,219	\$ 98,225,341	
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,701,694	\$ 9,920,373	\$ 331,919	\$ -	\$ 185,961	\$ 13,139,947
2016	\$ 32,862,002	\$ 464,904	\$ 2,919,133	\$ 1,878,584	\$ 4,134	\$ 20,669	\$ 827	\$ 7,585	\$ 38,157,837	\$ 14,722,750	\$ 30,059,869	\$ 112,727	\$ 44,895,346	\$ 5,660,535	\$ 9,654,802	\$ 322,252	\$ 4,134	\$ 180,545	\$ 15,822,267	\$ 98,875,450	
2017	\$ 86,810,986	\$ 1,363,374	\$ 8,078,700	\$ 4,706,314	\$ 14,481	\$ 72,403	\$ 2,896	\$ 26,327	\$ 101,075,481	\$ 38,454,744	\$ 91,765,938	\$ 364,561	\$ 130,585,243	\$ 12,930,166	\$ 14,102,162	\$ 516,605	\$ 14,481	\$ 176,718	\$ 27,740,133	\$ 259,400,857	
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,153,322	\$ 27,365,924	\$ 1,005,784	\$ -	\$ 172,608	\$ 36,697,639
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,996,659	\$ 26,568,859	\$ 1,021,081	\$ -	\$ 168,654	\$ 36,755,252
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,635,956	\$ 25,795,008	\$ 904,756	\$ -	\$ 161,658	\$ 33,497,378
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,480,214	\$ 25,043,697	\$ 962,466	\$ -	\$ 158,972	\$ 34,645,350
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 521,931	\$ 1,534	\$ 863	\$ 524,328	\$ -	\$ -	\$ -	\$ -	\$ 11,975,570	\$ 22,181,970	\$ 987,014	\$ 104,386	\$ 157,983	\$ 35,406,923
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 128,542	\$ -	\$ -	\$ 128,542	\$ -	\$ -	\$ -	\$ -	\$ 6,825,329	\$ 21,535,893	\$ 760,174	\$ 25,708	\$ 148,614	\$ 29,295,718
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 124,798	\$ -	\$ -	\$ 124,798	\$ -	\$ -	\$ -	\$ -	\$ 7,558,851	\$ 20,908,634	\$ 776,497	\$ 24,960	\$ 145,211	\$ 29,414,153
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 121,163	\$ -	\$ -	\$ 121,163	\$ -	\$ -	\$ -	\$ -	\$ 5,528,364	\$ 20,299,645	\$ 679,192	\$ 24,233	\$ 139,184	\$ 26,670,614
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 117,634	\$ -	\$ -	\$ 117,634	\$ -	\$ -	\$ -	\$ -	\$ 7,124,942	\$ 19,708,393	\$ 731,923	\$ 384,505	\$ 136,875	\$ 28,086,639
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 114,208	\$ -	\$ -	\$ 114,208	\$ -	\$ -	\$ -	\$ -	\$ 10,330,232	\$ 19,134,362	\$ 851,407	\$ 22,842	\$ 136,277	\$ 30,475,120
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 110,881	\$ -	\$ -	\$ 110,881	\$ -	\$ -	\$ -	\$ -	\$ 5,887,589	\$ 18,577,050	\$ 655,733	\$ 22,176	\$ 128,196	\$ 25,270,744
2029	\$ 417,715	\$ 100,770	\$ 893,851	\$ 1,056,728	\$ 1,407	\$ 114,689	\$ 281	\$ 252	\$ 2,585,695	\$ 994,899	\$ 6,092,857	\$ 162,614	\$ 7,250,370	\$ 6,739,465	\$ 18,068,776	\$ 669,813	\$ 22,938	\$ 125,260	\$ 25,626,253	\$ 35,462,318	
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 104,516	\$ -	\$ -	\$ 104,516	\$ -	\$ -	\$ -	\$ -	\$ 4,922,205	\$ 19,451,914	\$ 758,545	\$ 20,903	\$ 120,119	\$ 25,273,687
2031	\$ 393,737	\$ 94,986	\$ 842,541	\$ 996,068	\$ 1,327	\$ 108,106	\$ 265	\$ 237	\$ 2,437,266	\$ 937,788	\$ 5,743,102	\$ 153,279	\$ 6,834,169	\$ 6,501,515	\$ 18,916,275	\$ 799,002	\$ 333,004	\$ 118,125	\$ 26,667,921	\$ 35,939,356	
2032	\$ 1,529,074	\$ 368,877	\$ 3,272,002	\$ 3,868,225	\$ 5,152	\$ 124,277	\$ 1,030	\$ 921	\$ 9,169,559	\$ 3,641,895	\$ 22,303,308	\$ 595,259	\$ 26,540,462	\$ 10,002,273	\$ 20,285,203	\$ 1,059,943	\$ 24,855	\$ 117,662	\$ 31,489,936	\$ 67,199,958	
2033	\$ 1,113,403	\$ 268,600	\$ 2,302,526	\$ 2,916,669	\$ 3,752	\$ 114,405	\$ 750	\$ 671	\$ 6,700,776	\$ 2,651,865	\$ 16,240,272	\$ 433,441	\$ 19,325,579	\$ 6,595,019	\$ 26,771,347	\$ 1,513,734	\$ 22,881	\$ 110,897	\$ 34,923,878	\$ 60,950,232	
2034	\$ 360,325	\$ 86,926	\$ 771,044	\$ 911,543	\$ 1,214	\$ 98,932	\$ 243	\$ 217	\$ 2,230,443	\$ 858,209	\$ 5,255,752	\$ 140,272	\$ 6,254,233	\$ 7,466,085	\$ 31,109,364	\$ 2,055,239	\$ 19,786	\$ 108,901	\$ 40,759,376	\$ 49,244,052	
2035	\$ 699,660	\$ 168,787	\$ 1,497,173	\$ 1,769,987	\$ 2,357	\$ 101,944	\$ 471	\$ 422	\$ 4,240,801	\$ 1,666,425	\$ 10,205,343	\$ 272,373	\$ 12,144,141	\$ 5,803,819	\$ 31,905,289	\$ 1,994,831	\$ 20,389	\$ 104,059	\$ 39,828,387	\$ 56,213,329	
Total PV	\$ 195,498,033	\$ 3,926,073	\$ 26,991,540	\$ 22,080,681	\$ 42,794	\$ 2,143,951	\$ 10,093	\$ 1,862,719	\$ 252,555,883	\$ 95,877,204	\$ 252,896,896	\$ 2,479,149	\$ 351,253,249	\$ 165,429,232	\$ 455,095,781	\$ 19,616,883	\$ 1,101,152	\$ 3,801,611	\$ 645,044,658	\$ 1,248,853,790	
Annualized Value	\$ 11,227,036	\$ 225,466	\$ 1,550,067	\$ 1,268,046	\$ 2,458	\$ 123,123	\$ 580	\$ 106,972	\$ 14,503,747	\$ 5,506,024	\$ 14,523,330	\$ 142,372	\$ 20,171,726	\$ 9,500,249	\$ 26,135,182	\$ 1,126,556	\$ 63,237	\$ 218,318	\$ 37,043,541	\$ 71,719,014	

C.51 Regulatory Alternative 3 Total Rule Costs by Rule Component and Cost Type (2008\$) - Period 1 (2011-2035) Present and Annualized Values Using a 7% Discount Rate

Year	One-Time Costs										Capital Costs						O & M						Permitting Authority Periodic Costs		O&M Costs SUBTOTAL		TOTAL		
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Periodic Costs	O&M Costs SUBTOTAL										
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,808,763	\$ 1,808,763	\$ -	\$ -	\$ -	\$ 1,808,763	\$ -	\$ -	\$ -	\$ -	\$ 227,584	\$ 227,584	\$ 2,036,347									
2012	\$ 17,801,900	\$ 251,846	\$ 1,581,343	\$ 1,017,661	\$ 2,239	\$ 11,197	\$ 448	\$ 4,638	\$ 20,671,272	\$ 7,975,562	\$ 16,283,938	\$ 61,066	\$ 24,320,566	\$ 1,645,482	\$ 12,661	\$ -	\$ 2,239	\$ 194,952	\$ 1,855,334	\$ 46,847,172									
2013	\$ 16,637,290	\$ 235,370	\$ 1,477,891	\$ 951,085	\$ 2,093	\$ 10,464	\$ 419	\$ 4,397	\$ 19,319,009	\$ 7,453,796	\$ 15,218,633	\$ 57,071	\$ 22,729,501	\$ 2,201,817	\$ 2,449,921	\$ 81,574	\$ 2,093	\$ 182,361	\$ 4,917,766	\$ 46,966,275									
2014	\$ 31,097,738	\$ 439,944	\$ 2,762,413	\$ 1,777,729	\$ 3,912	\$ 19,559	\$ 782	\$ 8,341	\$ 36,110,419	\$ 13,932,329	\$ 28,446,044	\$ 106,675	\$ 42,485,048	\$ 4,115,546	\$ 4,579,291	\$ 152,475	\$ 3,912	\$ 170,587	\$ 9,021,811	\$ 87,617,279									
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
2016	\$ 27,161,969	\$ 384,264	\$ 2,412,799	\$ 1,552,737	\$ 3,417	\$ 17,084	\$ 683	\$ 7,512	\$ 31,540,465	\$ 12,169,036	\$ 24,845,876	\$ 93,174	\$ 37,108,086	\$ 4,678,695	\$ 7,980,142	\$ 266,356	\$ 3,417	\$ 149,285	\$ 13,077,894	\$ 81,726,446									
2017	\$ 69,070,941	\$ 1,084,765	\$ 6,427,797	\$ 3,744,567	\$ 11,521	\$ 57,607	\$ 2,304	\$ 24,844	\$ 80,424,347	\$ 30,596,419	\$ 73,013,336	\$ 290,062	\$ 103,899,817	\$ 10,287,854	\$ 11,220,350	\$ 411,035	\$ 11,521	\$ 140,821	\$ 22,071,581	\$ 206,395,745									
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,244,659	\$ 20,959,661	\$ 770,334	\$ -	\$ -	\$ 132,552	\$ 28,107,206	\$ 28,107,206				
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,632,982	\$ 19,588,468	\$ 752,814	\$ -	\$ -	\$ 124,858	\$ 27,099,122	\$ 27,099,122				
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,709,606	\$ 18,306,979	\$ 642,115	\$ -	\$ -	\$ 114,978	\$ 23,773,678	\$ 23,773,678				
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,793,504	\$ 17,109,327	\$ 657,537	\$ -	\$ -	\$ 109,174	\$ 23,669,541	\$ 23,669,541				
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 343,243	\$ 1,009	\$ 698	\$ 344,950	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,875,609	\$ 14,587,740	\$ 649,099	\$ 68,649	\$ 105,080	\$ 23,286,176	\$ 23,631,126						
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 81,374	\$ -	\$ 81,374	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,320,808	\$ 13,633,402	\$ 481,232	\$ 16,275	\$ 94,479	\$ 18,546,196	\$ 18,627,569						
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 76,051	\$ -	\$ 76,051	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,606,283	\$ 12,741,497	\$ 473,189	\$ 15,210	\$ 89,066	\$ 17,925,246	\$ 18,001,296						
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 71,075	\$ -	\$ 71,075	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,242,985	\$ 11,907,941	\$ 389,420	\$ 14,215	\$ 81,891	\$ 15,645,452	\$ 15,716,527						
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 66,425	\$ -	\$ 66,425	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,023,306	\$ 11,128,917	\$ 413,302	\$ 217,122	\$ 77,888	\$ 15,860,538	\$ 15,926,960						
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 62,080	\$ -	\$ 62,080	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,615,200	\$ 10,400,857	\$ 462,799	\$ 12,416	\$ 75,388	\$ 16,566,669	\$ 16,628,740						
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 58,019	\$ -	\$ 58,019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,080,676	\$ 9,720,427	\$ 343,112	\$ 11,604	\$ 67,510	\$ 13,223,329	\$ 13,281,348						
2029	\$ 210,398	\$ 50,757	\$ 450,223	\$ 532,262	\$ 709	\$ 57,768	\$ 142	\$ 259	\$ 1,302,517	\$ 501,119	\$ 3,068,902	\$ 81,907	\$ 3,651,928	\$ 3,394,591	\$ 9,101,035	\$ 337,377	\$ 11,554	\$ 63,706	\$ 12,908,263	\$ 17,862,708									
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50,676	\$ -	\$ 50,676	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,386,576	\$ 9,431,436	\$ 367,788	\$ 10,135	\$ 58,518	\$ 12,254,453	\$ 12,305,129						
2031	\$ 183,770	\$ 44,333	\$ 393,242	\$ 464,898	\$ 619	\$ 50,456	\$ 124	\$ 226	\$ 1,137,669	\$ 437,697	\$ 2,680,498	\$ 71,541	\$ 3,189,735	\$ 3,034,474	\$ 8,828,858	\$ 372,921	\$ 155,424	\$ 55,771	\$ 12,447,449	\$ 16,774,853									
2032	\$ 686,991	\$ 165,731	\$ 1,470,063	\$ 1,737,937	\$ 2,315	\$ 55,836	\$ 463	\$ 845	\$ 4,120,181	\$ 1,636,250	\$ 10,020,553	\$ 267,441	\$ 11,924,245	\$ 4,493,876	\$ 9,113,847	\$ 476,217	\$ 11,167	\$ 54,240	\$ 14,149,348	\$ 30,193,774									
2033	\$ 481,536	\$ 116,167	\$ 1,030,418	\$ 1,218,180	\$ 1,623	\$ 49,479	\$ 325	\$ 592	\$ 2,898,319	\$ 1,146,905	\$ 7,023,752	\$ 187,459	\$ 8,358,115	\$ 2,813,354	\$ 11,578,333	\$ 654,674	\$ 9,896	\$ 48,505	\$ 15,104,762	\$ 26,361,197									
2034	\$ 150,011	\$ 36,189	\$ 321,003	\$ 379,495	\$ 505	\$ 41,188	\$ 101	\$ 185	\$ 928,677	\$ 357,291	\$ 2,188,085	\$ 58,398	\$ 2,603,774	\$ 3,108,295	\$ 12,951,510	\$ 855,641	\$ 8,238	\$ 46,231	\$ 16,969,915	\$ 20,502,366									
2035	\$ 280,395	\$ 67,643	\$ 600,005	\$ 709,337	\$ 945	\$ 40,855	\$ 189	\$ 345	\$ 1,699,713	\$ 667,834	\$ 4,089,878	\$ 109,156	\$ 4,866,868	\$ 2,325,930	\$ 12,786,315	\$ 799,445	\$ 8,171	\$ 42,112	\$ 15,961,973	\$ 22,528,554									
Total PV	\$ 163,762,938	\$ 2,877,010	\$ 18,927,196	\$ 14,085,889	\$ 29,898	\$ 1,220,435	\$ 6,989	\$ 1,861,644	\$ 202,772,000	\$ 76,874,238	\$ 186,879,494	\$ 1,383,952	\$ 265,137,683	\$ 102,951,904	\$ 268,637,000	\$ 11,104,457	\$ 593,257	\$ 2,648,277	\$ 385,934,895	\$ 853,844,578									
Annualized Value	\$ 14,052,582	\$ 246,878	\$ 1,624,153	\$ 1,208,717	\$ 2,566	\$ 104,726	\$ 600	\$ 159,749	\$ 17,399,970	\$ 6,596,618	\$ 16,036,226	\$ 118,758	\$ 22,751,602	\$ 8,834,356	\$ 23,051,880	\$ 952,879	\$ 50,908	\$ 227,250	\$ 33,117,273	\$ 73,268,845									

C.52 Regulatory Alternative 3 Total Rule Costs by Rule Component and Cost Type (\$2008) - Period 2 (2036-2060) Unadjusted Values

Year	One-Time Costs							Capital Costs					O & M					TOTAL		
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL	
2011	\$ 2,133,398	\$ 514,665	\$ 4,565,166	\$ 5,397,029	\$ 7,188	\$ 219,212	\$ 1,438	\$ 2,625	\$ 12,840,718	\$ 5,081,248	\$ 31,118,042	\$ 830,519	\$ 37,029,809	\$ 16,287,996	\$ 71,720,762	\$ 4,984,515	\$ 606,235	\$ 216,905	\$ 93,796,413	\$ 143,666,940
2012	\$ 711,132	\$ 171,555	\$ 1,521,722	\$ 1,799,010	\$ 2,396	\$ 195,251	\$ 479	\$ 875	\$ 4,402,419	\$ 1,693,749	\$ 10,372,681	\$ 276,840	\$ 12,343,270	\$ 24,347,584	\$ 81,821,115	\$ 6,671,522	\$ 39,050	\$ 227,187	\$ 113,106,458	\$ 129,852,147
2013	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ -	\$ 16,557,045	\$ 85,169,283	\$ 6,500,951	\$ 36,654	\$ 219,015	\$ 108,482,948	\$ 108,666,218	
2014	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ -	\$ 17,085,439	\$ 85,169,283	\$ 6,366,525	\$ 36,654	\$ 219,015	\$ 108,876,916	\$ 109,060,186	
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,529,190	\$ 958	\$ 539	\$ 1,530,688	\$ -	\$ -	\$ -	\$ 14,078,188	\$ 81,765,268	\$ 5,950,778	\$ 305,838	\$ 216,052	\$ 102,316,123	\$ 103,846,811	
2016	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 337,244	\$ -	\$ -	\$ 337,244	\$ -	\$ -	\$ -	\$ 18,497,961	\$ 81,765,268	\$ 6,445,576	\$ 629,841	\$ 221,620	\$ 107,560,266	\$ 107,897,510	
2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,683,165	\$ 958	\$ 539	\$ 1,684,662	\$ -	\$ -	\$ -	\$ 24,546,299	\$ 78,361,252	\$ 6,559,661	\$ 336,633	\$ 228,399	\$ 110,032,244	\$ 111,716,906	
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,874,900	\$ 3,834	\$ 2,155	\$ 5,880,889	\$ -	\$ -	\$ -	\$ 14,943,225	\$ 64,745,190	\$ 4,684,306	\$ 1,174,980	\$ 217,938	\$ 85,765,639	\$ 91,646,528	
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,144,878	\$ 2,875	\$ 1,616	\$ 5,149,370	\$ -	\$ -	\$ -	\$ 13,823,964	\$ 54,533,143	\$ 3,450,644	\$ 1,706,723	\$ 216,007	\$ 73,730,481	\$ 78,879,850	
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,914,960	\$ 958	\$ 539	\$ 2,916,458	\$ -	\$ -	\$ -	\$ 11,657,459	\$ 51,129,127	\$ 3,225,810	\$ 582,992	\$ 214,436	\$ 66,809,824	\$ 69,726,282	
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,414,855	\$ 1,917	\$ 1,078	\$ 4,417,850	\$ -	\$ -	\$ -	\$ 14,698,546	\$ 44,321,096	\$ 2,924,148	\$ 2,123,111	\$ 218,252	\$ 64,285,152	\$ 68,703,002	
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,068,725	\$ 2,875	\$ 1,616	\$ 6,073,216	\$ -	\$ -	\$ -	\$ 17,686,706	\$ 34,109,049	\$ 1,859,945	\$ 3,924,733	\$ 220,497	\$ 57,800,931	\$ 63,874,147	
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,838,807	\$ 958	\$ 539	\$ 3,840,304	\$ -	\$ -	\$ -	\$ 9,731,287	\$ 30,705,034	\$ 1,083,826	\$ 2,801,003	\$ 211,966	\$ 44,533,116	\$ 48,375,421	
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,646,861	\$ -	\$ -	\$ 2,646,861	\$ -	\$ -	\$ -	\$ 11,100,428	\$ 30,705,034	\$ 1,140,312	\$ 1,884,866	\$ 213,358	\$ 45,043,998	\$ 47,690,860	
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,646,861	\$ -	\$ -	\$ 2,646,861	\$ -	\$ -	\$ -	\$ 8,362,147	\$ 30,705,034	\$ 1,027,340	\$ 1,884,866	\$ 210,575	\$ 42,189,961	\$ 44,836,822	
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,646,861	\$ -	\$ -	\$ 2,646,861	\$ -	\$ -	\$ -	\$ 11,100,428	\$ 30,705,034	\$ 1,140,312	\$ 3,802,753	\$ 213,358	\$ 46,961,885	\$ 49,608,746	
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,646,861	\$ -	\$ -	\$ 2,646,861	\$ -	\$ -	\$ -	\$ 16,576,990	\$ 30,705,034	\$ 1,366,258	\$ 3,918,108	\$ 218,926	\$ 52,785,315	\$ 55,432,176	
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,458,187	\$ 958	\$ 539	\$ 3,459,685	\$ -	\$ -	\$ -	\$ 8,971,092	\$ 27,913,667	\$ 990,431	\$ 2,724,879	\$ 211,787	\$ 40,811,856	\$ 44,271,541	
2029	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,947,908	\$ 958	\$ 539	\$ 3,949,406	\$ -	\$ -	\$ -	\$ 9,580,038	\$ 25,122,300	\$ 953,523	\$ 2,145,076	\$ 212,999	\$ 38,013,936	\$ 41,963,342	
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,248,956	\$ 1,917	\$ 1,078	\$ 5,251,950	\$ -	\$ -	\$ -	\$ 5,321,366	\$ 19,539,567	\$ 653,762	\$ 2,405,285	\$ 209,856	\$ 28,129,836	\$ 33,381,786	
2031	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,605,745	\$ -	\$ -	\$ 4,605,745	\$ -	\$ -	\$ -	\$ 8,059,647	\$ 19,539,567	\$ 766,734	\$ 4,194,530	\$ 212,640	\$ 32,773,118	\$ 37,378,863	
2032	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,228,398	\$ 1,917	\$ 1,078	\$ 6,231,392	\$ -	\$ -	\$ -	\$ 10,646,678	\$ 13,956,834	\$ 749,405	\$ 5,951,787	\$ 216,456	\$ 31,521,160	\$ 37,752,552	
2033	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,641,819	\$ 4,792	\$ 2,694	\$ 9,649,305	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 5,278,977	\$ 208,599	\$ 48,576,576	\$ 15,136,881	
2034	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,033,792	\$ -	\$ -	\$ 8,033,792	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 5,596,996	\$ 208,599	\$ 5,805,595	\$ 13,839,387	
2035	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,033,792	\$ -	\$ -	\$ 8,033,792	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 2,962,252	\$ 208,599	\$ 3,170,852	\$ 11,204,643	
Total	\$ 2,844,528	\$ 686,220	\$ 6,086,888	\$ 7,196,038	\$ 9,584	\$ 92,373,768	\$ 27,795	\$ 18,047	\$ 109,242,869	\$ 6,774,997	\$ 41,490,723	\$ 1,107,358	\$ 49,373,078	\$ 303,660,513	\$ 1,074,206,940	\$ 69,476,285	\$ 57,054,821	\$ 5,393,043	\$ 1,509,791,601	\$ 1,668,407,548

C.53 Regulatory Alternative 3 Total Rule Costs by Rule Component and Cost Type (2008\$) - Period 2 (2036-2060) Present and Annualized Values Using a 3% Discount Rate

Year	One-Time Costs							Capital Costs							O & M						
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL	TOTAL	
2011	\$ 1,018,922	\$ 245,807	\$ 2,180,349	\$ 2,577,651	\$ 3,433	\$ 104,697	\$ 687	\$ 1,254	\$ 6,132,799	\$ 2,426,832	\$ 14,862,150	\$ 396,660	\$ 17,685,643	\$ 7,779,238	\$ 34,254,235	\$ 2,371,080	\$ 289,541	\$ 103,595	\$ 44,797,689	\$ 68,616,131	
2012	\$ 329,748	\$ 79,549	\$ 705,614	\$ 834,191	\$ 1,111	\$ 90,537	\$ 222	\$ 820	\$ 2,041,793	\$ 785,383	\$ 4,809,757	\$ 128,369	\$ 5,723,509	\$ 11,289,846	\$ 37,940,019	\$ 3,093,550	\$ 18,107	\$ 104,319	\$ 52,445,842	\$ 60,211,143	
2013	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 82,506	\$ -	\$ 603	\$ 83,109	\$ -	\$ -	\$ -	\$ 7,453,800	\$ 38,342,279	\$ 2,926,657	\$ 16,501	\$ 97,916	\$ 48,837,154	\$ 48,920,263		
2014	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 80,103	\$ -	\$ 585	\$ 80,689	\$ -	\$ -	\$ -	\$ 7,467,648	\$ 37,225,514	\$ 2,782,660	\$ 16,021	\$ 95,319	\$ 47,587,161	\$ 47,667,850		
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 648,906	\$ 407	\$ 696	\$ 650,099	\$ -	\$ -	\$ -	\$ 5,974,028	\$ 34,696,794	\$ 2,525,191	\$ 129,781	\$ 91,346	\$ 43,417,140	\$ 44,067,149		
2016	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 138,940	\$ -	\$ 552	\$ 139,492	\$ -	\$ -	\$ -	\$ 7,620,915	\$ 33,686,208	\$ 2,655,492	\$ 259,486	\$ 90,446	\$ 44,312,547	\$ 44,452,039		
2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 673,244	\$ 383	\$ 656	\$ 674,284	\$ -	\$ -	\$ -	\$ 9,818,204	\$ 31,343,493	\$ 2,623,780	\$ 134,649	\$ 90,257	\$ 44,010,383	\$ 44,684,667		
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,281,441	\$ 1,489	\$ 987	\$ 2,283,917	\$ -	\$ -	\$ -	\$ 5,803,008	\$ 25,142,955	\$ 1,819,090	\$ 456,288	\$ 84,230	\$ 33,305,570	\$ 35,589,487		
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,938,754	\$ 1,084	\$ 845	\$ 1,941,683	\$ -	\$ -	\$ -	\$ 5,211,997	\$ 20,560,426	\$ 1,300,983	\$ 643,479	\$ 81,590	\$ 27,798,476	\$ 29,740,159		
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,067,006	\$ 351	\$ 600	\$ 1,067,958	\$ -	\$ -	\$ -	\$ 4,267,153	\$ 18,715,556	\$ 1,180,791	\$ 213,401	\$ 78,466	\$ 24,455,368	\$ 25,523,326		
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,568,966	\$ 681	\$ 690	\$ 1,570,337	\$ -	\$ -	\$ -	\$ 5,223,619	\$ 15,750,982	\$ 1,039,194	\$ 754,518	\$ 77,352	\$ 22,845,664	\$ 24,416,001		
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,093,907	\$ 992	\$ 773	\$ 2,095,672	\$ -	\$ -	\$ -	\$ 6,102,487	\$ 11,768,728	\$ 641,741	\$ 1,354,160	\$ 76,335	\$ 19,943,452	\$ 22,039,124		
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,285,935	\$ 321	\$ 549	\$ 1,286,805	\$ -	\$ -	\$ -	\$ 3,259,815	\$ 10,285,662	\$ 363,063	\$ 938,288	\$ 71,541	\$ 14,918,370	\$ 16,205,175		
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 860,828	\$ -	\$ 436	\$ 861,264	\$ -	\$ -	\$ -	\$ 3,610,149	\$ 9,986,080	\$ 370,859	\$ 613,008	\$ 69,900	\$ 14,649,996	\$ 15,511,260		
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 835,756	\$ -	\$ 423	\$ 836,179	\$ -	\$ -	\$ -	\$ 2,640,378	\$ 9,695,223	\$ 324,386	\$ 595,153	\$ 67,005	\$ 13,322,145	\$ 14,158,324		
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 811,413	\$ -	\$ 411	\$ 811,824	\$ -	\$ -	\$ -	\$ 3,402,912	\$ 9,412,838	\$ 349,571	\$ 1,165,760	\$ 65,887	\$ 14,396,968	\$ 15,208,792		
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 787,780	\$ -	\$ 399	\$ 788,179	\$ -	\$ -	\$ -	\$ 4,933,776	\$ 9,138,678	\$ 406,637	\$ 1,166,139	\$ 65,587	\$ 15,710,816	\$ 16,498,995		
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 999,275	\$ 277	\$ 539	\$ 1,000,091	\$ -	\$ -	\$ -	\$ 2,592,280	\$ 8,065,912	\$ 286,194	\$ 787,379	\$ 61,661	\$ 11,793,426	\$ 12,793,517		
2029	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,107,558	\$ 269	\$ 523	\$ 1,108,350	\$ -	\$ -	\$ -	\$ 2,687,612	\$ 7,047,884	\$ 267,504	\$ 601,786	\$ 60,198	\$ 10,664,984	\$ 11,773,334		
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,429,667	\$ 522	\$ 652	\$ 1,430,841	\$ -	\$ -	\$ -	\$ 1,449,390	\$ 5,322,027	\$ 178,066	\$ 655,132	\$ 57,608	\$ 7,662,223	\$ 9,093,064		
2031	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,217,937	\$ -	\$ 354	\$ 1,218,291	\$ -	\$ -	\$ -	\$ 2,131,282	\$ 5,167,016	\$ 202,754	\$ 1,109,196	\$ 56,649	\$ 8,666,897	\$ 9,885,188		
2032	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,599,057	\$ 492	\$ 614	\$ 1,600,163	\$ -	\$ -	\$ -	\$ 2,733,391	\$ 3,583,229	\$ 192,400	\$ 1,528,041	\$ 55,956	\$ 8,093,017	\$ 9,693,181		
2033	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,403,308	\$ 1,195	\$ 990	\$ 2,405,492	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 1,315,831	\$ 52,414	\$ 1,368,245	\$ 3,773,737		
2034	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,944,168	\$ -	\$ 324	\$ 1,944,492	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 1,354,466	\$ 50,887	\$ 1,405,353	\$ 3,349,845		
2035	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,887,542	\$ -	\$ 315	\$ 1,887,856	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 695,982	\$ 49,405	\$ 745,387	\$ 2,633,243		
Total PV	\$ 1,348,670	\$ 325,356	\$ 2,885,963	\$ 3,411,842	\$ 4,544	\$ 27,940,233	\$ 9,372	\$ 15,589	\$ 35,941,569	\$ 3,212,215	\$ 19,671,908	\$ 525,029	\$ 23,409,152	\$ 113,452,929	\$ 417,131,739	\$ 27,901,643	\$ 16,812,095	\$ 1,855,868	\$ 577,154,275	\$ 636,504,996	
Annualized Value	\$ 77,451	\$ 18,685	\$ 165,735	\$ 195,935	\$ 261	\$ 1,604,548	\$ 538	\$ 895	\$ 2,064,048	\$ 184,471	\$ 1,129,716	\$ 30,151	\$ 1,344,338	\$ 6,515,360	\$ 23,954,988	\$ 965,483	\$ 106,579	\$ 33,144,741	\$ 36,553,127		

C.54 Regulatory Alternative 3 Total Rule Costs by Rule Component and Cost Type (2008\$) - Period 2 (2036-2060) Present and Annualized Values Using a 7% Discount Rate

Year	One-Time Costs							Capital Costs					O & M							
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL	TOTAL
2011	\$ 393,076	\$ 94,827	\$ 841,128	\$ 994,398	\$ 1,324	\$ 40,390	\$ 265	\$ 484	\$ 2,365,892	\$ 936,216	\$ 5,733,474	\$ 153,022	\$ 6,822,712	\$ 3,001,050	\$ 13,214,491	\$ 914,708	\$ 111,698	\$ 39,965	\$ 17,281,912	\$ 26,470,516
2012	\$ 122,454	\$ 29,541	\$ 262,034	\$ 309,781	\$ 413	\$ 33,621	\$ 83	\$ 151	\$ 758,077	\$ 291,656	\$ 1,786,129	\$ 47,671	\$ 2,125,455	\$ 4,192,544	\$ 14,089,227	\$ 1,148,806	\$ 6,724	\$ 40,381	\$ 19,477,683	\$ 22,361,215
2013	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29,494	\$ -	\$ -	\$ 29,494	\$ -	\$ -	\$ -	\$ -	\$ 2,664,531	\$ 13,706,324	\$ 1,046,200	\$ 5,899	\$ 35,654	\$ 17,458,609	\$ 17,488,102
2014	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,564	\$ -	\$ -	\$ 27,564	\$ -	\$ -	\$ -	\$ -	\$ 2,569,688	\$ 12,809,649	\$ 957,539	\$ 5,513	\$ 33,512	\$ 16,375,900	\$ 16,403,465
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 214,947	\$ 135	\$ 76	\$ 215,158	\$ -	\$ -	\$ -	\$ -	\$ 1,978,870	\$ 11,493,156	\$ 836,458	\$ 42,989	\$ 30,604	\$ 14,382,077	\$ 14,597,235
2016	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 44,303	\$ -	\$ -	\$ 44,303	\$ -	\$ -	\$ -	\$ -	\$ 2,430,024	\$ 10,741,267	\$ 846,737	\$ 82,740	\$ 29,673	\$ 14,130,441	\$ 14,174,744
2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 206,647	\$ 118	\$ 66	\$ 206,831	\$ -	\$ -	\$ -	\$ -	\$ 3,013,623	\$ 9,620,647	\$ 805,349	\$ 41,329	\$ 29,240	\$ 13,510,188	\$ 13,717,019
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 674,093	\$ 440	\$ 247	\$ 674,780	\$ -	\$ -	\$ -	\$ -	\$ 1,714,602	\$ 7,428,936	\$ 537,483	\$ 134,819	\$ 25,392	\$ 9,841,232	\$ 10,516,012
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 551,709	\$ 308	\$ 173	\$ 552,191	\$ -	\$ -	\$ -	\$ -	\$ 1,482,409	\$ 5,847,845	\$ 370,029	\$ 183,020	\$ 23,701	\$ 7,907,004	\$ 8,459,195
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 292,135	\$ 96	\$ 54	\$ 292,285	\$ -	\$ -	\$ -	\$ -	\$ 1,168,303	\$ 5,124,128	\$ 323,289	\$ 58,427	\$ 21,711	\$ 6,695,857	\$ 6,988,142
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 413,508	\$ 180	\$ 101	\$ 413,789	\$ -	\$ -	\$ -	\$ -	\$ 1,376,709	\$ 4,151,244	\$ 273,884	\$ 198,857	\$ 20,964	\$ 6,021,658	\$ 6,435,447
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 531,229	\$ 252	\$ 141	\$ 531,622	\$ -	\$ -	\$ -	\$ -	\$ 1,548,214	\$ 2,985,751	\$ 162,811	\$ 343,553	\$ 20,415	\$ 5,060,745	\$ 5,592,366
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 314,048	\$ 78	\$ 44	\$ 314,171	\$ -	\$ -	\$ -	\$ -	\$ 796,105	\$ 2,511,943	\$ 88,667	\$ 229,147	\$ 17,698	\$ 3,643,568	\$ 3,957,730
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 202,371	\$ -	\$ -	\$ 202,371	\$ -	\$ -	\$ -	\$ -	\$ 848,704	\$ 2,347,610	\$ 87,185	\$ 144,111	\$ 16,809	\$ 3,444,418	\$ 3,646,789
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 189,131	\$ -	\$ -	\$ 189,131	\$ -	\$ -	\$ -	\$ -	\$ 597,517	\$ 2,194,028	\$ 73,409	\$ 134,683	\$ 15,249	\$ 3,014,886	\$ 3,204,018
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 176,758	\$ -	\$ -	\$ 176,758	\$ -	\$ -	\$ -	\$ -	\$ 741,291	\$ 2,050,499	\$ 76,150	\$ 253,949	\$ 14,726	\$ 3,136,611	\$ 3,313,369
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 165,195	\$ -	\$ -	\$ 165,195	\$ -	\$ -	\$ -	\$ -	\$ 1,034,596	\$ 1,916,349	\$ 85,270	\$ 244,535	\$ 14,681	\$ 3,295,432	\$ 3,460,626
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 201,711	\$ 56	\$ 83	\$ 201,851	\$ -	\$ -	\$ -	\$ -	\$ 523,271	\$ 1,628,164	\$ 57,770	\$ 158,938	\$ 12,661	\$ 2,380,805	\$ 2,582,856
2029	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 215,211	\$ 52	\$ 80	\$ 215,344	\$ -	\$ -	\$ -	\$ -	\$ 522,234	\$ 1,369,484	\$ 51,979	\$ 116,934	\$ 12,028	\$ 2,072,656	\$ 2,289,002
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 267,416	\$ 98	\$ 155	\$ 267,668	\$ -	\$ -	\$ -	\$ -	\$ 271,105	\$ 995,471	\$ 33,307	\$ 122,541	\$ 10,808	\$ 1,433,231	\$ 1,700,899
2031	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 219,296	\$ -	\$ -	\$ 219,296	\$ -	\$ -	\$ -	\$ -	\$ 383,748	\$ 930,347	\$ 36,507	\$ 199,716	\$ 10,491	\$ 1,560,809	\$ 1,780,105
2032	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 277,155	\$ 85	\$ 144	\$ 277,384	\$ -	\$ -	\$ -	\$ -	\$ 473,762	\$ 621,059	\$ 33,347	\$ 264,846	\$ 10,330	\$ 1,403,345	\$ 1,680,729
2033	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 400,979	\$ 199	\$ 346	\$ 401,524	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 219,539	\$ 8,675	\$ 228,214	\$ 629,739
2034	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 312,248	\$ -	\$ -	\$ 312,248	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 217,537	\$ 8,108	\$ 225,645	\$ 537,893
2035	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 291,820	\$ -	\$ -	\$ 291,820	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 107,601	\$ 7,577	\$ 115,178	\$ 406,999
Total PV	\$ 515,530	\$ 124,368	\$ 1,103,162	\$ 1,304,179	\$ 1,737	\$ 6,292,979	\$ 2,444	\$ 2,346	\$ 9,346,745	\$ 1,227,872	\$ 7,519,603	\$ 200,693	\$ 8,948,167	\$ 33,332,899	\$ 127,777,617	\$ 8,846,884	\$ 3,629,647	\$ 511,052	\$ 174,098,100	\$ 192,393,012
Annualized Value	\$ 44,238	\$ 10,672	\$ 94,663	\$ 111,912	\$ 149	\$ 540,004	\$ 210	\$ 201	\$ 802,049	\$ 105,364	\$ 645,261	\$ 17,222	\$ 767,847	\$ 2,860,313	\$ 10,964,663	\$ 759,156	\$ 311,462	\$ 43,854	\$ 14,939,448	\$ 16,509,344

C.55 Regulatory Alternative 4 Total Rule Costs by Rule Component and Cost Type (\$2008) - Period 1 (2011-2035) Unadjusted Values

Year	One-Time Costs							Capital Costs					O & M					TOTAL		
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL		
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,808,763	\$ 1,808,763	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 208,599	\$ 208,599	\$ 2,017,362		
2012	\$ 24,038,186	\$ 249,200	\$ 1,597,599	\$ 1,319,962	\$ 2,270	\$ 11,350	\$ 454	\$ 4,083	\$ 27,223,105	\$ 8,134,510	\$ 17,067,609	\$ 70,794	\$ 25,272,913	\$ 1,676,742	\$ 14,613	\$ 2,270	\$ 208,599	\$ 1,902,224	\$ 54,398,242	
2013	\$ 24,038,186	\$ 249,200	\$ 1,597,599	\$ 1,319,962	\$ 2,270	\$ 11,350	\$ 454	\$ 4,083	\$ 27,223,105	\$ 8,134,510	\$ 17,067,609	\$ 70,794	\$ 25,272,913	\$ 2,398,609	\$ 2,709,914	\$ 344,859	\$ 2,270	\$ 209,117	\$ 5,664,769	\$ 58,160,787
2014	\$ 48,076,373	\$ 498,401	\$ 3,195,198	\$ 2,639,925	\$ 4,540	\$ 22,700	\$ 908	\$ 8,167	\$ 54,446,210	\$ 16,269,020	\$ 34,135,217	\$ 141,588	\$ 50,545,825	\$ 4,797,218	\$ 5,419,829	\$ 689,718	\$ 4,540	\$ 209,634	\$ 11,120,939	\$ 116,112,974
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,887,467	\$ 10,781,206	\$ 1,379,436	\$ 210,669	\$ 15,258,779	
2016	\$ 48,076,373	\$ 498,401	\$ 3,195,198	\$ 2,639,925	\$ 4,540	\$ 22,700	\$ 908	\$ 8,167	\$ 54,446,210	\$ 16,269,020	\$ 34,135,217	\$ 141,588	\$ 50,545,825	\$ 6,240,951	\$ 10,810,432	\$ 1,379,436	\$ 4,540	\$ 210,669	\$ 18,646,029	\$ 123,638,064
2017	\$ 132,032,756	\$ 1,526,565	\$ 9,174,196	\$ 6,822,445	\$ 16,660	\$ 83,300	\$ 3,332	\$ 29,969	\$ 149,889,222	\$ 43,948,521	\$ 108,361,015	\$ 478,170	\$ 152,787,705	\$ 15,972,326	\$ 16,270,775	\$ 2,069,155	\$ 16,660	\$ 213,065	\$ 34,541,981	\$ 337,018,909
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,806,737	\$ 32,644,115	\$ 4,398,466	\$ -	\$ 216,863	\$ 48,066,181
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,352,845	\$ 32,644,115	\$ 4,398,466	\$ -	\$ 218,224	\$ 50,613,651
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,260,628	\$ 32,644,115	\$ 4,398,466	\$ -	\$ 215,502	\$ 45,518,712
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,352,845	\$ 32,644,115	\$ 4,398,466	\$ -	\$ 218,224	\$ 50,613,651
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 722,475	\$ 2,124	\$ 1,194	\$ 725,793	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,217,184	\$ 29,648,317	\$ 3,793,450	\$ 144,496	\$ 222,458	\$ 57,025,905
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,486,643	\$ 29,648,317	\$ 3,793,450	\$ 36,654	\$ 215,653	\$ 44,180,717
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,032,751	\$ 29,648,317	\$ 3,793,450	\$ 36,654	\$ 217,014	\$ 46,911,457
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,940,535	\$ 29,648,317	\$ 3,793,450	\$ 36,654	\$ 214,292	\$ 41,633,248
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,032,751	\$ 29,648,317	\$ 3,793,450	\$ 1,150,819	\$ 217,014	\$ 47,842,352
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,217,184	\$ 29,648,317	\$ 3,793,450	\$ 36,654	\$ 222,458	\$ 56,918,064
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,486,643	\$ 29,648,317	\$ 3,793,450	\$ 36,654	\$ 215,653	\$ 44,180,717
2029	\$ 924,833	\$ 158,867	\$ 1,437,812	\$ 1,704,966	\$ 2,270	\$ 194,620	\$ 454	\$ -	\$ 4,423,822	\$ 1,628,886	\$ 9,910,441	\$ 300,875	\$ 11,840,202	\$ 13,390,302	\$ 29,708,946	\$ 3,793,450	\$ 38,924	\$ 217,014	\$ 47,148,636	
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,202,510	\$ 32,915,266	\$ 4,666,226	\$ 36,654	\$ 214,809	\$ 46,420,735
2031	\$ 924,833	\$ 158,867	\$ 1,437,812	\$ 1,704,966	\$ 2,270	\$ 194,620	\$ 454	\$ -	\$ 4,423,822	\$ 1,628,886	\$ 9,910,441	\$ 300,875	\$ 11,840,202	\$ 13,652,277	\$ 32,975,898	\$ 4,666,226	\$ 1,153,089	\$ 217,531	\$ 52,867,019	
2032	\$ 3,699,330	\$ 636,467	\$ 5,751,249	\$ 6,819,864	\$ 9,080	\$ 228,670	\$ 1,816	\$ -	\$ 17,145,476	\$ 6,515,545	\$ 39,641,765	\$ 1,203,498	\$ 47,360,808	\$ 25,171,336	\$ 36,424,731	\$ 5,943,002	\$ 45,734	\$ 233,493	\$ 67,808,296	
2033	\$ 2,774,498	\$ 476,600	\$ 4,313,437	\$ 5,114,898	\$ 6,810	\$ 217,320	\$ 1,362	\$ -	\$ 12,904,925	\$ 4,886,659	\$ 29,731,324	\$ 902,624	\$ 35,520,606	\$ 13,131,144	\$ 49,431,897	\$ 10,242,107	\$ 43,464	\$ 218,758	\$ 73,067,370	
2034	\$ 924,833	\$ 158,867	\$ 1,437,812	\$ 1,704,966	\$ 2,270	\$ 194,620	\$ 454	\$ -	\$ 4,423,822	\$ 1,628,886	\$ 9,910,441	\$ 300,875	\$ 11,840,202	\$ 17,217,791	\$ 59,111,486	\$ 13,466,435	\$ 38,924	\$ 223,033	\$ 90,057,668	
2035	\$ 1,849,665	\$ 317,733	\$ 2,875,625	\$ 3,409,932	\$ 4,540	\$ 205,970	\$ 908	\$ -	\$ 8,664,373	\$ 3,257,773	\$ 19,820,883	\$ 601,749	\$ 23,680,404	\$ 11,275,385	\$ 62,439,064	\$ 14,541,211	\$ 41,194	\$ 219,467	\$ 88,516,320	
Total	\$ 287,359,865	\$ 4,928,167	\$ 36,013,536	\$ 35,201,810	\$ 57,520	\$ 3,392,585	\$ 13,628	\$ 1,864,426	\$ 368,831,538	\$ 112,302,217	\$ 329,691,961	\$ 4,513,428	\$ 446,507,606	\$ 283,200,802	\$ 687,128,736	\$ 107,733,280	\$ 2,906,847	\$ 5,397,814	\$ 1,086,367,478	
																		\$ 1,901,706,622		

C.56 Regulatory Alternative 4 Total Rule Costs by Rule Component and Cost Type (2008\$) - Period 1 (2011-2035) Present and Annualized Values Using a 3% Discount Rate

Year	One-Time Costs							Capital Costs							O & M						
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL	TOTAL	
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,808,763	\$ 1,808,763	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 227,584	\$ 227,584	\$ 2,036,347		
2012	\$ 23,338,045	\$ 241,942	\$ 1,551,067	\$ 1,281,517	\$ 2,204	\$ 11,019	\$ 441	\$ 3,964	\$ 26,430,199	\$ 7,897,583	\$ 16,570,494	\$ 68,732	\$ 24,536,808	\$ 1,627,905	\$ 14,187	\$ -	\$ 2,204	\$ 202,523	\$ 1,846,819	\$ 52,813,827	
2013	\$ 22,658,296	\$ 234,895	\$ 1,505,890	\$ 1,244,191	\$ 2,140	\$ 10,698	\$ 428	\$ 3,849	\$ 25,660,387	\$ 7,667,556	\$ 16,087,858	\$ 66,730	\$ 23,822,144	\$ 2,260,919	\$ 2,554,354	\$ 325,063	\$ 2,140	\$ 197,112	\$ 5,339,588	\$ 54,822,119	
2014	\$ 43,996,691	\$ 456,107	\$ 2,924,058	\$ 2,415,905	\$ 4,155	\$ 20,774	\$ 831	\$ 7,474	\$ 49,825,995	\$ 14,888,458	\$ 31,238,559	\$ 129,573	\$ 46,256,590	\$ 4,390,134	\$ 4,959,911	\$ 631,190	\$ 4,155	\$ 191,845	\$ 10,177,234	\$ 106,259,820	
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,565,477	\$ 9,578,962	\$ 1225,611	\$ 187,177	\$ 13,557,228
2016	\$ 41,471,101	\$ 429,925	\$ 2,756,206	\$ 2,277,222	\$ 3,916	\$ 19,581	\$ 783	\$ 7,045	\$ 46,965,779	\$ 14,033,800	\$ 29,445,338	\$ 122,135	\$ 43,601,273	\$ 5,383,499	\$ 9,325,173	\$ 1,189,914	\$ 3,916	\$ 181,725	\$ 16,084,228	\$ 106,651,280	
2017	\$ 110,575,354	\$ 1,278,474	\$ 7,683,245	\$ 5,713,690	\$ 13,952	\$ 69,762	\$ 2,790	\$ 25,098	\$ 125,362,367	\$ 36,806,194	\$ 90,750,644	\$ 400,460	\$ 127,957,298	\$ 13,376,572	\$ 13,626,518	\$ 1,732,885	\$ 13,952	\$ 178,439	\$ 28,928,366	\$ 282,248,030	
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,786,866	\$ 26,542,653	\$ 3,576,356	\$ -	\$ 176,339	\$ 39,082,204
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,540,859	\$ 25,769,566	\$ 3,472,190	\$ -	\$ 172,268	\$ 39,954,883
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,331,084	\$ 25,018,996	\$ 3,371,058	\$ -	\$ 165,165	\$ 34,886,303
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,935,770	\$ 24,290,287	\$ 3,272,872	\$ -	\$ 162,386	\$ 37,661,309
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 521,931	\$ 1,534	\$ 863	\$ 524,328	\$ -	\$ -	\$ -	\$ -	\$ 16,772,587	\$ 21,418,575	\$ 2,740,469	\$ 104,386	\$ 160,709	\$ 41,196,727
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 128,542	\$ -	\$ -	\$ 128,542	\$ -	\$ -	\$ -	\$ -	\$ 7,355,120	\$ 20,794,733	\$ 2,660,650	\$ 25,708	\$ 151,255	\$ 30,987,466
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 124,798	\$ -	\$ -	\$ 124,798	\$ -	\$ -	\$ -	\$ -	\$ 8,874,669	\$ 20,189,061	\$ 2,593,155	\$ 24,966	\$ 147,776	\$ 31,819,621
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 121,163	\$ -	\$ -	\$ 121,163	\$ -	\$ -	\$ -	\$ -	\$ 5,249,629	\$ 19,601,030	\$ 2,507,918	\$ 24,233	\$ 141,672	\$ 27,524,482
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 117,634	\$ -	\$ -	\$ 117,634	\$ -	\$ -	\$ -	\$ -	\$ 8,365,227	\$ 19,030,127	\$ 2,434,871	\$ 738,667	\$ 139,293	\$ 30,708,185
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 114,208	\$ -	\$ -	\$ 114,208	\$ -	\$ -	\$ -	\$ -	\$ 14,468,181	\$ 18,475,851	\$ 2,363,953	\$ 22,842	\$ 138,629	\$ 35,469,455
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 110,881	\$ -	\$ -	\$ 110,881	\$ -	\$ -	\$ -	\$ -	\$ 6,344,591	\$ 17,937,720	\$ 2,295,100	\$ 22,176	\$ 130,473	\$ 26,730,061
2029	\$ 543,242	\$ 93,317	\$ 844,563	\$ 1,001,488	\$ 1,333	\$ 114,319	\$ 267	\$ -	\$ 2,598,529	\$ 956,799	\$ 5,821,340	\$ 176,732	\$ 6,954,871	\$ 7,865,391	\$ 17,450,875	\$ 2,228,252	\$ 22,864	\$ 127,473	\$ 27,694,855	\$ 37,248,254	
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 104,516	\$ -	\$ -	\$ 104,516	\$ -	\$ -	\$ -	\$ -	\$ 4,677,777	\$ 18,771,116	\$ 2,776,281	\$ 20,903	\$ 122,372	\$ 26,368,450
2031	\$ 512,057	\$ 87,961	\$ 796,082	\$ 943,998	\$ 1,257	\$ 107,756	\$ 251	\$ -	\$ 2,449,363	\$ 901,875	\$ 5,487,171	\$ 166,587	\$ 6,555,633	\$ 7,558,935	\$ 18,257,954	\$ 2,695,419	\$ 638,437	\$ 120,315	\$ 29,271,060	\$ 38,276,055	
2032	\$ 1,988,572	\$ 341,595	\$ 3,091,580	\$ 3,666,013	\$ 4,881	\$ 122,921	\$ 976	\$ -	\$ 9,216,538	\$ 3,502,427	\$ 21,309,402	\$ 646,939	\$ 25,458,768	\$ 13,530,833	\$ 19,580,088	\$ 3,194,657	\$ 24,584	\$ 119,893	\$ 36,450,055	\$ 71,125,361	
2033	\$ 1,447,990	\$ 240,734	\$ 2,251,150	\$ 2,669,427	\$ 3,554	\$ 113,418	\$ 711	\$ -	\$ 6,734,903	\$ 2,550,311	\$ 15,516,555	\$ 471,072	\$ 18,537,938	\$ 6,853,046	\$ 25,798,137	\$ 5,345,279	\$ 22,684	\$ 113,452	\$ 38,132,596	\$ 63,405,517	
2034	\$ 468,605	\$ 80,496	\$ 728,528	\$ 863,892	\$ 1,150	\$ 98,612	\$ 230	\$ -	\$ 2,241,514	\$ 825,343	\$ 5,021,539	\$ 152,451	\$ 5,999,333	\$ 8,724,113	\$ 29,951,302	\$ 6,823,331	\$ 19,722	\$ 111,661	\$ 45,630,129	\$ 53,870,976	
2035	\$ 909,913	\$ 156,304	\$ 1,414,617	\$ 1,677,461	\$ 2,233	\$ 101,324	\$ 447	\$ -	\$ 4,262,297	\$ 1,602,608	\$ 9,750,561	\$ 296,021	\$ 11,649,190	\$ 5,546,742	\$ 30,715,882	\$ 7,153,312	\$ 20,265	\$ 106,838	\$ 43,543,039	\$ 59,454,526	
Total PV	\$ 247,909,867	\$ 3,649,750	\$ 25,546,985	\$ 23,754,804	\$ 40,776	\$ 2,133,859	\$ 9,690	\$ 1,857,056	\$ 304,902,787	\$ 91,632,953	\$ 246,999,460	\$ 2,697,432	\$ 341,329,845	\$ 187,385,927	\$ 439,653,059	\$ 66,599,785	\$ 1,758,798	\$ 3,855,372	\$ 699,252,941	\$ 1,345,485,573	
Annualized Value	\$ 14,236,936	\$ 209,597	\$ 1,467,109	\$ 1,364,188	\$ 2,342	\$ 122,543	\$ 556	\$ 106,647	\$ 17,509,918	\$ 5,262,285	\$ 14,184,653	\$ 154,908	\$ 19,601,846	\$ 10,761,175	\$ 25,248,339	\$ 3,824,684	\$ 101,004	\$ 221,406	\$ 40,156,608	\$ 77,268,372	

C.57 Regulatory Alternative 4 Total Rule Costs by Rule Component and Cost Type (2008\$) - Period 1 (2011-2035) Present and Annualized Values Using a 7% Discount Rate

Year	One-Time Costs							Capital Costs							O & M							TOTAL
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL			
2011	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,808,763	\$ 1,808,763	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 227,584	\$ 227,584	\$ 2,036,347			
2012	\$ 22,465,595	\$ 232,897	\$ 1,493,083	\$ 1,233,610	\$ 2,121	\$ 10,607	\$ 424	\$ 3,882	\$ 25,442,220	\$ 7,602,346	\$ 15,951,036	\$ 66,163	\$ 23,619,544	\$ 1,567,049	\$ 13,657	\$ -	\$ 2,121	\$ 194,952	\$ 1,777,779	\$ 50,839,544		
2013	\$ 20,995,883	\$ 217,661	\$ 1,395,405	\$ 1,152,906	\$ 1,983	\$ 9,914	\$ 397	\$ 3,691	\$ 23,777,839	\$ 7,104,996	\$ 14,907,510	\$ 61,834	\$ 22,074,341	\$ 2,095,038	\$ 2,366,944	\$ 301,213	\$ 1,983	\$ 182,666	\$ 4,947,844	\$ 50,800,024		
2014	\$ 39,244,641	\$ 406,843	\$ 2,608,233	\$ 2,154,965	\$ 3,706	\$ 18,530	\$ 741	\$ 7,023	\$ 44,444,683	\$ 13,280,367	\$ 27,864,505	\$ 115,578	\$ 41,260,450	\$ 3,915,959	\$ 4,424,195	\$ 563,016	\$ 3,706	\$ 171,169	\$ 9,079,044	\$ 94,783,176		
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,202,835	\$ 8,224,931	\$ 1,052,365	\$ -	\$ 160,833	\$ 11,640,964	
2016	\$ 34,277,789	\$ 355,353	\$ 2,278,132	\$ 1,882,230	\$ 3,237	\$ 16,185	\$ 647	\$ 6,363	\$ 38,819,936	\$ 11,599,586	\$ 24,337,938	\$ 100,950	\$ 36,038,475	\$ 4,449,712	\$ 7,707,689	\$ 983,519	\$ 3,237	\$ 150,341	\$ 13,294,498	\$ 88,152,908		
2017	\$ 87,979,000	\$ 1,017,215	\$ 6,113,154	\$ 4,546,083	\$ 11,101	\$ 55,506	\$ 2,220	\$ 22,237	\$ 99,746,517	\$ 29,284,755	\$ 72,205,519	\$ 318,625	\$ 101,808,899	\$ 10,643,035	\$ 10,841,905	\$ 1,378,765	\$ 11,101	\$ 142,312	\$ 23,017,119	\$ 224,572,534		
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,729,892	\$ 20,329,114	\$ 2,739,144	\$ -	\$ 135,747	\$ 29,933,897	\$ 29,933,897
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,771,477	\$ 18,999,172	\$ 2,559,947	\$ -	\$ 127,891	\$ 29,458,488	\$ 29,458,488
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,493,235	\$ 17,756,236	\$ 2,392,474	\$ -	\$ 117,898	\$ 24,759,842	\$ 24,759,842
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,787,909	\$ 16,594,613	\$ 2,235,957	\$ -	\$ 111,937	\$ 25,730,417	\$ 25,730,417
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 343,243	\$ 1,009	\$ 698	\$ 344,950	\$ -	\$ -	\$ -	\$ -	\$ 11,030,317	\$ 14,085,702	\$ 1,802,241	\$ 68,649	\$ 107,204	\$ 27,094,112	\$ 27,439,061
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 81,374	\$ -	\$ 81,374	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,656,195	\$ 13,164,207	\$ 1,684,337	\$ 16,275	\$ 96,556	\$ 19,617,569	\$ 19,698,944
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 76,051	\$ -	\$ 76,051	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,408,128	\$ 12,302,998	\$ 1,574,147	\$ 15,210	\$ 91,043	\$ 19,391,526	\$ 19,467,576
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 71,075	\$ -	\$ 71,075	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,079,476	\$ 11,498,129	\$ 1,471,165	\$ 14,215	\$ 83,794	\$ 16,146,779	\$ 16,217,854
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 66,425	\$ -	\$ 66,425	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,723,669	\$ 10,745,915	\$ 1,374,921	\$ 417,110	\$ 79,696	\$ 17,341,309	\$ 17,407,735
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 62,080	\$ -	\$ 62,080	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,864,463	\$ 10,042,911	\$ 1,284,973	\$ 12,416	\$ 77,097	\$ 19,281,860	\$ 19,343,940
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 58,019	\$ -	\$ 58,019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,319,803	\$ 9,385,898	\$ 1,200,909	\$ 11,604	\$ 69,170	\$ 13,987,383	\$ 14,045,402
2029	\$ 273,625	\$ 47,003	\$ 425,397	\$ 504,438	\$ 672	\$ 57,581	\$ 134	\$ -	\$ 1,308,849	\$ 481,929	\$ 2,932,142	\$ 89,018	\$ 3,503,089	\$ 3,961,707	\$ 8,789,805	\$ 1,122,345	\$ 11,516	\$ 65,291	\$ 13,950,665	\$ 18,762,602		
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50,676	\$ -	\$ 50,676	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,268,062	\$ 9,101,345	\$ 1,346,105	\$ 10,135	\$ 60,136	\$ 12,785,784	\$ 12,836,459
2031	\$ 238,994	\$ 41,054	\$ 371,558	\$ 440,598	\$ 587	\$ 50,294	\$ 117	\$ -	\$ 1,143,200	\$ 420,935	\$ 2,561,046	\$ 77,752	\$ 3,059,733	\$ 3,528,008	\$ 8,521,598	\$ 1,258,042	\$ 297,980	\$ 57,313	\$ 13,662,941	\$ 17,865,873		
2032	\$ 893,437	\$ 153,474	\$ 1,389,002	\$ 1,647,086	\$ 2,193	\$ 55,227	\$ 439	\$ -	\$ 4,140,857	\$ 1,573,589	\$ 9,574,005	\$ 290,661	\$ 11,438,255	\$ 6,079,207	\$ 8,797,049	\$ 1,435,313	\$ 11,045	\$ 55,790	\$ 16,378,405	\$ 31,957,517		
2033	\$ 626,241	\$ 107,575	\$ 973,599	\$ 1,154,500	\$ 1,537	\$ 49,052	\$ 307	\$ -	\$ 2,912,811	\$ 1,102,983	\$ 6,710,751	\$ 203,734	\$ 8,017,468	\$ 2,963,872	\$ 11,157,430	\$ 2,311,778	\$ 9,810	\$ 50,300	\$ 16,493,191	\$ 27,423,471		
2034	\$ 195,091	\$ 33,512	\$ 303,302	\$ 359,657	\$ 479	\$ 41,054	\$ 96	\$ -	\$ 933,191	\$ 343,608	\$ 2,090,577	\$ 63,469	\$ 2,497,654	\$ 3,632,039	\$ 12,469,384	\$ 2,840,702	\$ 8,211	\$ 48,148	\$ 18,998,485	\$ 22,429,330		
2035	\$ 364,655	\$ 62,640	\$ 566,920	\$ 672,257	\$ 895	\$ 40,606	\$ 179	\$ -	\$ 1,708,152	\$ 642,259	\$ 3,907,620	\$ 118,633	\$ 4,668,512	\$ 2,222,904	\$ 12,309,650	\$ 2,866,751	\$ 8,121	\$ 44,009	\$ 17,451,435	\$ 23,828,099		
Total PV	\$ 207,554,950	\$ 2,675,227	\$ 17,917,785	\$ 15,748,327	\$ 28,511	\$ 1,213,498	\$ 6,711	\$ 1,852,657	\$ 246,997,666	\$ 73,437,354	\$ 183,042,650	\$ 1,506,415	\$ 257,986,419	\$ 115,393,991	\$ 259,630,475	\$ 37,780,132	\$ 934,446	\$ 2,689,891	\$ 416,428,935	\$ 921,413,020		
Annualized Value	\$ 17,810,398	\$ 229,563	\$ 1,537,534	\$ 1,351,372	\$ 2,447	\$ 104,131	\$ 576	\$ 158,977	\$ 21,194,997	\$ 6,301,697	\$ 15,706,984	\$ 129,266	\$ 22,137,948	\$ 9,902,018	\$ 22,279,025	\$ 3,241,933	\$ 80,185	\$ 230,821	\$ 35,733,982	\$ 79,066,928		

C.58 Regulatory Alternative 4 Total Rule Costs by Rule Component and Cost Type (\$2008) - Period 2 (2036-2060) Unadjusted Values

Year	One-Time Costs							Capital Costs					O & M					TOTAL		
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL	
2011	\$ 2,774,498	\$ 476,600	\$ 4,313,437	\$ 5,114,898	\$ 6,810	\$ 217,320	\$ 1,362	\$ -	\$ 12,904,925	\$ 4,886,659	\$ 29,731,324	\$ 902,624	\$ 35,520,606	\$ 18,718,817	\$ 69,033,591	\$ 16,690,763	\$ 1,157,629	\$ 224,585	\$ 105,825,384	\$ 154,250,916
2012	\$ 924,833	\$ 158,867	\$ 1,437,812	\$ 1,704,966	\$ 2,270	\$ 194,620	\$ 454	\$ -	\$ 4,423,822	\$ 1,628,886	\$ 9,910,441	\$ 300,875	\$ 11,840,202	\$ 33,383,218	\$ 78,713,180	\$ 19,915,091	\$ 38,924	\$ 235,666	\$ 132,286,078	\$ 148,550,102
2013	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ -	\$ 19,087,387	\$ 81,919,500	\$ 20,899,867	\$ 36,654	\$ 228,016	\$ 122,261,423	\$ 122,444,693	
2014	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ 183,270	\$ -	\$ -	\$ -	\$ 20,163,780	\$ 81,919,500	\$ 20,899,867	\$ 36,654	\$ 228,016	\$ 123,337,816	\$ 123,521,086	
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,466,523	\$ 908	\$ 510	\$ 1,467,941	\$ -	\$ -	\$ -	\$ 14,809,588	\$ 78,652,551	\$ 19,915,091	\$ 293,305	\$ 224,777	\$ 113,895,311	\$ 115,363,253	
2016	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 326,499	\$ -	\$ -	\$ 326,499	\$ -	\$ -	\$ -	\$ 22,841,235	\$ 78,652,551	\$ 19,915,091	\$ 1,179,465	\$ 230,221	\$ 122,818,563	\$ 123,145,062	
2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,609,752	\$ 908	\$ 510	\$ 1,611,171	\$ -	\$ -	\$ -	\$ 34,233,408	\$ 78,385,602	\$ 18,840,316	\$ 321,950	\$ 236,508	\$ 129,017,784	\$ 130,628,955	
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,602,741	\$ 3,632	\$ 2,042	\$ 5,608,415	\$ -	\$ -	\$ -	\$ 17,515,537	\$ 62,317,806	\$ 14,541,211	\$ 1,120,548	\$ 224,911	\$ 95,720,014	\$ 101,328,429	
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,892,406	\$ 2,724	\$ 1,531	\$ 4,896,661	\$ -	\$ -	\$ -	\$ 16,336,290	\$ 52,516,959	\$ 11,316,883	\$ 2,258,651	\$ 221,998	\$ 82,650,781	\$ 87,547,442	
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,755,588	\$ 908	\$ 510	\$ 2,757,006	\$ -	\$ -	\$ -	\$ 12,451,815	\$ 49,250,011	\$ 10,242,107	\$ 551,118	\$ 220,119	\$ 72,715,161	\$ 75,472,175	
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,182,070	\$ 1,816	\$ 1,021	\$ 4,184,907	\$ -	\$ -	\$ -	\$ 18,489,796	\$ 42,716,113	\$ 8,092,554	\$ 3,230,749	\$ 223,167	\$ 72,752,380	\$ 76,937,287	
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,751,782	\$ 2,724	\$ 1,531	\$ 5,756,037	\$ -	\$ -	\$ -	\$ 24,948,874	\$ 32,915,266	\$ 4,868,226	\$ 6,271,036	\$ 224,337	\$ 69,227,739	\$ 74,983,776	
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,614,964	\$ 908	\$ 510	\$ 3,616,383	\$ -	\$ -	\$ -	\$ 10,486,643	\$ 29,648,317	\$ 3,793,450	\$ 4,563,501	\$ 215,653	\$ 48,707,566	\$ 52,323,948	
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,474,941	\$ -	\$ -	\$ 2,474,941	\$ -	\$ -	\$ -	\$ 13,032,751	\$ 29,648,317	\$ 3,793,450	\$ 3,055,328	\$ 217,014	\$ 49,746,886	\$ 52,221,801	
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,474,941	\$ -	\$ -	\$ 2,474,941	\$ -	\$ -	\$ -	\$ 7,940,535	\$ 29,648,317	\$ 3,793,450	\$ 3,055,328	\$ 214,292	\$ 44,651,922	\$ 47,126,863	
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,474,941	\$ -	\$ -	\$ 2,474,941	\$ -	\$ -	\$ -	\$ 13,032,751	\$ 29,648,317	\$ 3,793,450	\$ 6,729,833	\$ 217,014	\$ 53,421,365	\$ 55,896,306	
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,474,941	\$ -	\$ -	\$ 2,474,941	\$ -	\$ -	\$ -	\$ 23,217,184	\$ 29,648,317	\$ 3,793,450	\$ 6,895,837	\$ 222,458	\$ 63,777,247	\$ 66,252,188	
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,238,193	\$ 908	\$ 510	\$ 3,239,612	\$ -	\$ -	\$ -	\$ 9,764,776	\$ 26,953,016	\$ 3,448,591	\$ 4,488,148	\$ 215,135	\$ 44,869,667	\$ 48,109,278	
2029	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,694,099	\$ 908	\$ 510	\$ 3,695,518	\$ -	\$ -	\$ -	\$ 11,589,017	\$ 24,257,714	\$ 3,103,732	\$ 3,299,160	\$ 215,979	\$ 42,465,602	\$ 46,161,120	
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,913,258	\$ 1,816	\$ 1,021	\$ 4,916,095	\$ -	\$ -	\$ -	\$ 5,053,068	\$ 18,867,111	\$ 2,414,014	\$ 3,542,991	\$ 212,222	\$ 30,089,405	\$ 35,005,500	
2031	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,298,564	\$ -	\$ -	\$ 4,298,564	\$ -	\$ -	\$ -	\$ 10,145,284	\$ 18,867,111	\$ 2,414,014	\$ 7,094,557	\$ 214,944	\$ 38,735,910	\$ 43,034,474	
2032	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,825,070	\$ 1,816	\$ 1,021	\$ 5,827,007	\$ -	\$ -	\$ -	\$ 16,339,875	\$ 13,476,508	\$ 1,724,296	\$ 10,055,221	\$ 217,992	\$ 41,813,891	\$ 47,641,798	
2033	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,026,640	\$ 4,540	\$ 2,552	\$ 9,033,732	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 8,135,196	\$ 208,599	\$ 8,343,795	\$ 17,377,527	
2034	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,489,906	\$ -	\$ -	\$ 7,489,906	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 9,037,037	\$ 208,599	\$ 9,245,636	\$ 16,735,542	
2035	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,489,906	\$ -	\$ -	\$ 7,489,906	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 4,058,321	\$ 208,599	\$ 4,266,920	\$ 11,756,826	
Total	\$ 3,699,330	\$ 635,467	\$ 5,751,249	\$ 6,819,864	\$ 9,080	\$ 86,856,206	\$ 26,332	\$ 13,781	\$ 103,811,310	\$ 6,515,545	\$ 39,641,765	\$ 1,203,498	\$ 47,360,808	\$ 373,581,628	\$ 1,034,655,673	\$ 218,388,963	\$ 90,507,142	\$ 5,510,822	\$ 1,722,644,229	\$ 1,873,816,347

C.59 Regulatory Alternative 4 Total Rule Costs by Rule Component and Cost Type (2008\$) - Period 2 (2036-2060) Present and Annualized Values Using a 3% Discount Rate

Year	One-Time Costs							Capital Costs				O & M								
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	Permitting Authority Periodic Costs	O&M Costs SUBTOTAL	TOTAL
2011	\$ 1,325,116	\$ 227,627	\$ 2,060,121	\$ 2,442,904	\$ 3,253	\$ 103,793	\$ 651	\$ -	\$ 6,163,464	\$ 2,333,896	\$ 14,199,846	\$ 431,098	\$ 16,964,839	\$ 8,940,211	\$ 32,970,827	\$ 7,971,601	\$ 552,890	\$ 107,263	\$ 50,542,793	\$ 73,671,096
2012	\$ 428,840	\$ 73,666	\$ 666,706	\$ 790,584	\$ 1,053	\$ 90,244	\$ 211	\$ -	\$ 2,051,303	\$ 755,306	\$ 4,595,419	\$ 139,514	\$ 5,490,239	\$ 15,479,622	\$ 36,498,886	\$ 9,234,523	\$ 18,049	\$ 108,122	\$ 61,339,202	\$ 68,880,744
2013	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 82,506	\$ -	\$ -	\$ 82,506	\$ -	\$ -	\$ -	\$ -	\$ 8,592,933	\$ 36,879,262	\$ 9,449,408	\$ 16,501	\$ 101,697	\$ 55,039,801	\$ 55,122,307
2014	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 80,103	\$ -	\$ -	\$ 80,103	\$ -	\$ -	\$ -	\$ -	\$ 8,813,119	\$ 35,805,109	\$ 9,174,183	\$ 16,021	\$ 98,994	\$ 53,907,429	\$ 53,987,532
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 622,314	\$ 385	\$ 121	\$ 622,820	\$ -	\$ -	\$ -	\$ -	\$ 6,284,395	\$ 33,375,924	\$ 8,450,896	\$ 124,463	\$ 94,837	\$ 48,330,514	\$ 48,953,334
2016	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 134,513	\$ -	\$ -	\$ 134,513	\$ -	\$ -	\$ -	\$ -	\$ 9,410,286	\$ 32,403,809	\$ 8,204,754	\$ 485,924	\$ 93,822	\$ 50,598,595	\$ 50,733,109
2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 643,880	\$ 363	\$ 114	\$ 644,357	\$ -	\$ -	\$ -	\$ -	\$ 13,692,923	\$ 30,153,272	\$ 7,935,884	\$ 128,776	\$ 93,455	\$ 51,604,309	\$ 52,248,667
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,175,752	\$ 1,410	\$ 442	\$ 2,177,605	\$ -	\$ -	\$ -	\$ -	\$ 6,801,932	\$ 24,200,312	\$ 5,646,891	\$ 435,150	\$ 87,052	\$ 37,171,337	\$ 39,348,941
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,844,565	\$ 1,027	\$ 322	\$ 1,845,914	\$ -	\$ -	\$ -	\$ -	\$ 6,159,210	\$ 19,800,272	\$ 4,266,762	\$ 851,571	\$ 84,130	\$ 31,161,945	\$ 33,007,860
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,008,669	\$ 332	\$ 104	\$ 1,009,105	\$ -	\$ -	\$ -	\$ -	\$ 4,557,923	\$ 18,027,715	\$ 3,749,071	\$ 201,734	\$ 80,856	\$ 26,617,299	\$ 27,626,404
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,486,238	\$ 645	\$ 202	\$ 1,487,086	\$ -	\$ -	\$ -	\$ -	\$ 6,570,967	\$ 15,180,597	\$ 2,875,966	\$ 1,148,155	\$ 79,533	\$ 25,855,211	\$ 27,342,297
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,984,551	\$ 940	\$ 295	\$ 1,985,786	\$ -	\$ -	\$ -	\$ -	\$ 8,608,170	\$ 11,356,834	\$ 1,679,696	\$ 2,163,711	\$ 78,272	\$ 23,886,683	\$ 25,872,469
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,210,951	\$ 304	\$ 95	\$ 1,211,351	\$ -	\$ -	\$ -	\$ -	\$ 3,512,846	\$ 9,931,680	\$ 1,270,741	\$ 1,528,695	\$ 73,361	\$ 16,317,325	\$ 17,528,676
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 804,915	\$ -	\$ -	\$ 804,915	\$ -	\$ -	\$ -	\$ -	\$ 4,238,592	\$ 9,642,408	\$ 1,233,729	\$ 993,673	\$ 71,667	\$ 16,180,066	\$ 16,984,384
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 781,471	\$ -	\$ -	\$ 781,471	\$ -	\$ -	\$ -	\$ -	\$ 2,507,252	\$ 9,361,561	\$ 1,197,793	\$ 964,731	\$ 68,720	\$ 14,100,066	\$ 14,881,531
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 758,710	\$ -	\$ -	\$ 758,710	\$ -	\$ -	\$ -	\$ -	\$ 3,995,279	\$ 9,088,894	\$ 1,162,908	\$ 2,063,076	\$ 67,553	\$ 16,377,711	\$ 17,136,421
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 736,612	\$ -	\$ -	\$ 736,612	\$ -	\$ -	\$ -	\$ -	\$ 6,910,084	\$ 8,824,169	\$ 1,129,037	\$ 2,052,394	\$ 67,206	\$ 18,982,891	\$ 19,719,502
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 935,706	\$ 262	\$ 147	\$ 936,116	\$ -	\$ -	\$ -	\$ -	\$ 2,821,622	\$ 7,788,322	\$ 996,502	\$ 1,296,892	\$ 63,133	\$ 12,966,471	\$ 13,902,587
2029	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,036,353	\$ 255	\$ 143	\$ 1,036,751	\$ -	\$ -	\$ -	\$ -	\$ 3,251,217	\$ 6,805,330	\$ 870,730	\$ 925,556	\$ 61,530	\$ 11,914,364	\$ 12,951,115
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,338,233	\$ 495	\$ 278	\$ 1,339,006	\$ -	\$ -	\$ -	\$ -	\$ 1,376,313	\$ 5,138,869	\$ 657,509	\$ 965,011	\$ 58,715	\$ 8,196,417	\$ 9,535,422
2031	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,136,706	\$ -	\$ -	\$ 1,136,706	\$ -	\$ -	\$ -	\$ -	\$ 2,682,805	\$ 4,989,193	\$ 638,356	\$ 1,876,075	\$ 57,725	\$ 10,244,156	\$ 11,380,862
2032	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,495,508	\$ 466	\$ 262	\$ 1,496,237	\$ -	\$ -	\$ -	\$ -	\$ 4,195,043	\$ 3,459,912	\$ 442,690	\$ 2,581,543	\$ 56,826	\$ 10,736,013	\$ 12,232,249
2033	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,349,969	\$ 1,132	\$ 636	\$ 2,251,737	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 2,027,769	\$ 52,829	\$ 2,080,598	\$ 4,332,335
2034	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,812,548	\$ -	\$ -	\$ 1,812,548	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 2,186,952	\$ 51,291	\$ 2,238,243	\$ 4,050,791
2035	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,759,756	\$ -	\$ -	\$ 1,759,756	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 953,504	\$ 49,797	\$ 1,003,300	\$ 2,763,056
Total PV	\$ 1,753,956	\$ 301,293	\$ 2,726,827	\$ 3,233,487	\$ 4,305	\$ 26,314,570	\$ 8,878	\$ 3,163	\$ 34,346,479	\$ 3,089,202	\$ 18,795,265	\$ 570,612	\$ 22,455,079	\$ 139,402,745	\$ 401,683,160	\$ 87,839,629	\$ 26,558,813	\$ 1,908,387	\$ 657,392,734	\$ 714,194,292
Annualized Value	\$ 100,726	\$ 17,303	\$ 156,596	\$ 185,692	\$ 247	\$ 1,511,190	\$ 510	\$ 182	\$ 1,972,445	\$ 177,406	\$ 1,079,372	\$ 32,769	\$ 1,289,547	\$ 8,005,603	\$ 23,067,809	\$ 5,044,443	\$ 1,525,216	\$ 109,595	\$ 37,752,665	\$ 41,014,658

C.60 Regulatory Alternative 4 Total Rule Costs by Rule Component and Cost Type (2008\$) - Period 2 (2036-2060) Present and Annualized Values Using a 7% Discount Rate

Year	One-Time Costs										Capital Costs					O & M					Permitting Authority Periodic Costs		
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	Plugging	Financial Responsibility	Permitting Authority One-Time Costs	One-Time Costs SUBTOTAL	Monitoring	Injection Well Construction	Well Operation	Capital Costs SUBTOTAL	Monitoring	Well Operation	MIT	Plugging	O&M Costs SUBTOTAL	TOTAL				
2011	\$ 511,199	\$ 87,813	\$ 794,747	\$ 942,416	\$ 1,255	\$ 40,041	\$ 251	\$ -	\$ 2,377,722	\$ 900,363	\$ 5,477,972	\$ 166,308	\$ 6,544,642	\$ 3,448,927	\$ 12,719,382	\$ 3,075,259	\$ 213,292	\$ 41,380	\$ 19,498,240	\$ 28,420,604			
2012	\$ 159,252	\$ 27,356	\$ 247,585	\$ 293,587	\$ 391	\$ 33,513	\$ 78	\$ -	\$ 761,762	\$ 280,487	\$ 1,706,533	\$ 51,809	\$ 2,038,829	\$ 5,748,440	\$ 13,554,056	\$ 3,429,289	\$ 6,703	\$ 42,367	\$ 22,780,852	\$ 25,581,444			
2013	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29,494	\$ -	\$ -	\$ 29,494	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,071,740	\$ 13,183,335	\$ 3,377,907	\$ 5,899	\$ 37,597	\$ 19,676,478	\$ 19,705,972		
2014	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,564	\$ -	\$ -	\$ 27,564	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,032,677	\$ 12,320,874	\$ 3,156,922	\$ 5,513	\$ 35,361	\$ 18,551,347	\$ 18,578,911		
2015	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 206,139	\$ -	\$ 128	\$ 206,338	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,081,677	\$ 11,055,624	\$ 2,799,321	\$ 41,228	\$ 32,309	\$ 16,010,160	\$ 16,216,498		
2016	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 42,891	\$ -	\$ -	\$ 42,891	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,000,587	\$ 10,332,359	\$ 2,616,186	\$ 154,943	\$ 31,287	\$ 16,135,364	\$ 16,178,256		
2017	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 197,634	\$ -	\$ 111	\$ 197,808	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,202,938	\$ 9,255,317	\$ 2,313,082	\$ 39,527	\$ 30,735	\$ 15,841,600	\$ 16,039,408		
2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 642,865	\$ -	\$ 417	\$ 234	\$ 643,516	\$ -	\$ -	\$ -	\$ -	\$ 2,009,753	\$ 7,150,415	\$ 1,868,475	\$ 128,573	\$ 26,660	\$ 10,983,875	\$ 11,627,391		
2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 524,636	\$ -	\$ 292	\$ 164	\$ 525,092	\$ -	\$ -	\$ -	\$ -	\$ 1,751,817	\$ 5,631,640	\$ 1,213,562	\$ 242,206	\$ 24,809	\$ 8,864,035	\$ 9,389,127		
2020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 276,163	\$ -	\$ 91	\$ 51	\$ 276,305	\$ -	\$ -	\$ -	\$ -	\$ 1,247,913	\$ 4,935,804	\$ 1,026,457	\$ 55,233	\$ 22,729	\$ 7,288,135	\$ 7,564,441		
2021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 391,705	\$ -	\$ 170	\$ 96	\$ 391,971	\$ -	\$ -	\$ -	\$ -	\$ 1,731,809	\$ 4,000,917	\$ 757,972	\$ 302,601	\$ 21,876	\$ 6,815,175	\$ 7,207,146		
2022	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 503,485	\$ -	\$ 238	\$ 134	\$ 503,857	\$ -	\$ -	\$ -	\$ -	\$ 2,183,911	\$ 2,881,253	\$ 246,142	\$ 548,938	\$ 21,215	\$ 6,061,459	\$ 6,565,317		
2023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 295,736	\$ -	\$ 74	\$ 42	\$ 295,852	\$ -	\$ -	\$ -	\$ -	\$ 857,900	\$ 2,425,494	\$ 310,336	\$ 373,335	\$ 18,432	\$ 3,985,499	\$ 4,281,351		
2024	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 189,226	\$ -	\$ -	\$ 189,226	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 996,443	\$ 2,266,817	\$ 290,035	\$ 233,601	\$ 17,518	\$ 3,804,414	\$ 3,993,640		
2025	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 176,847	\$ -	\$ -	\$ 176,847	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 567,391	\$ 2,118,521	\$ 271,061	\$ 218,318	\$ 15,927	\$ 3,191,218	\$ 3,368,065		
2026	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 165,277	\$ -	\$ -	\$ 165,277	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 870,332	\$ 1,979,926	\$ 253,326	\$ 449,421	\$ 15,384	\$ 3,568,391	\$ 3,733,669		
2027	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 154,465	\$ -	\$ -	\$ 154,465	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,449,021	\$ 1,850,398	\$ 236,755	\$ 430,380	\$ 15,325	\$ 3,981,879	\$ 4,136,344		
2028	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 188,879	\$ -	\$ 53	\$ 82	\$ 189,014	\$ -	\$ -	\$ -	\$ -	\$ 569,565	\$ 1,572,131	\$ 201,151	\$ 261,787	\$ 13,215	\$ 2,617,850	\$ 2,806,864		
2029	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 201,375	\$ -	\$ 49	\$ 79	\$ 201,504	\$ -	\$ -	\$ -	\$ -	\$ 631,748	\$ 1,322,353	\$ 169,193	\$ 179,846	\$ 12,511	\$ 2,315,651	\$ 2,517,155		
2030	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250,313	\$ -	\$ 93	\$ 152	\$ 250,557	\$ -	\$ -	\$ -	\$ -	\$ 257,436	\$ 961,212	\$ 122,988	\$ 180,500	\$ 11,167	\$ 1,533,302	\$ 1,783,860		
2031	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 204,670	\$ -	\$ -	\$ 204,670	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 483,052	\$ 898,329	\$ 114,940	\$ 337,797	\$ 10,842	\$ 1,844,960	\$ 2,049,630		
2032	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 259,207	\$ -	\$ 81	\$ 141	\$ 259,429	\$ -	\$ -	\$ -	\$ -	\$ 727,101	\$ 599,686	\$ 76,729	\$ 447,443	\$ 10,582	\$ 1,861,540	\$ 2,120,970		
2033	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 375,395	\$ -	\$ 189	\$ 340	\$ 375,924	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 338,322	\$ 8,675	\$ 346,997	\$ 722,922		
2034	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 291,109	\$ -	\$ -	\$ 291,109	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 351,241	\$ 8,108	\$ 359,348	\$ 650,457		
2035	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 272,064	\$ -	\$ -	\$ 272,064	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 0	\$ 0	\$ 147,415	\$ 7,577	\$ 154,992	\$ 427,056		
Total PV	\$ 670,451	\$ 115,169	\$ 1,042,332	\$ 1,236,003	\$ 1,646	\$ 5,940,693	\$ 2,315	\$ 1,650	\$ 9,010,259	\$ 1,180,850	\$ 7,184,505	\$ 218,117	\$ 8,583,472	\$ 40,922,179	\$ 123,015,842	\$ 27,907,094	\$ 5,694,063	\$ 533,588	\$ 198,072,766	\$ 215,666,497			
Annualized Value	\$ 57,532	\$ 9,883	\$ 89,443	\$ 106,062	\$ 141	\$ 509,774	\$ 199	\$ 142	\$ 773,175	\$ 101,329	\$ 616,506	\$ 18,717	\$ 736,552	\$ 3,511,553	\$ 10,556,053	\$ 2,394,722	\$ 488,610	\$ 45,787	\$ 16,996,726	\$ 18,506,454			

**C.61 Total and Incremental Rule Costs by Rule Component - Period 1 (2011-2035) Annualized Values Using a 3% Discount Rate**

Regulatory Alternative	Rule Component									
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin	TOTAL
RA0	\$ 6,650,593	\$ 2,382,887	\$ 14,931,985	\$ 941,517	\$ 21,487,074	\$ 53,563	\$ 32,395	\$ 88	\$ 219,587	\$ 46,699,689
RA1	\$ 4,088,024	\$ 5,019,465	\$ 15,271,016	\$ 991,132	\$ 23,021,722	\$ 70,131	\$ 41,881	\$ 88	\$ 323,989	\$ 48,827,449
RA1 Incremental	\$ (2,562,569)	\$ 2,636,578	\$ 339,031	\$ 49,615	\$ 1,534,648	\$ 16,568	\$ 9,485	\$ -	\$ 104,402	\$ 2,127,759
RA2	\$ 7,367,529	\$ 7,239,326	\$ 15,988,860	\$ 991,132	\$ 23,700,296	\$ 70,131	\$ 45,527	\$ 580	\$ 324,318	\$ 55,727,700
RA2 Incremental	\$ 716,935	\$ 4,856,440	\$ 1,056,875	\$ 49,615	\$ 2,213,223	\$ 16,568	\$ 13,132	\$ 492	\$ 104,731	\$ 9,028,010
RA3	\$ 11,227,036	\$ 15,231,738	\$ 16,073,397	\$ 1,268,046	\$ 26,280,012	\$ 1,126,556	\$ 186,359	\$ 580	\$ 325,290	\$ 71,719,014
RA3 Incremental	\$ 4,576,442	\$ 12,848,852	\$ 1,141,412	\$ 326,529	\$ 4,792,938	\$ 1,072,993	\$ 153,964	\$ 492	\$ 105,703	\$ 25,019,325
RA4	\$ 14,236,936	\$ 16,233,058	\$ 15,651,762	\$ 1,364,188	\$ 25,405,589	\$ 3,824,684	\$ 223,547	\$ 556	\$ 328,053	\$ 77,268,372
RA4 Incremental	\$ 7,586,342	\$ 13,850,171	\$ 719,778	\$ 422,670	\$ 3,918,515	\$ 3,771,121	\$ 191,152	\$ 468	\$ 108,465	\$ 30,568,683

**C.62 Total and Incremental Rule Costs by Rule Component - Period 1 (2011-2035) Annualized Values Using a 7% Discount Rate**

Regulatory Alternative	Rule Component									
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin	TOTAL
RA0	\$ 8,323,869	\$ 2,448,305	\$ 16,338,983	\$ 901,447	\$ 18,890,428	\$ 44,895	\$ 30,900	\$ 87	\$ 229,163	\$ 47,208,076
RA1	\$ 5,110,850	\$ 5,177,639	\$ 16,728,926	\$ 948,999	\$ 20,250,869	\$ 56,148	\$ 38,866	\$ 87	\$ 385,401	\$ 48,697,785
RA1 Incremental	\$ (3,213,019)	\$ 2,729,335	\$ 389,943	\$ 47,552	\$ 1,360,441	\$ 11,253	\$ 7,966	\$ -	\$ 156,238	\$ 1,489,709
RA2	\$ 9,220,654	\$ 7,122,096	\$ 17,553,905	\$ 948,999	\$ 20,852,105	\$ 56,148	\$ 42,298	\$ 600	\$ 385,857	\$ 56,182,661
RA2 Incremental	\$ 896,785	\$ 4,673,791	\$ 1,214,921	\$ 47,552	\$ 1,961,677	\$ 11,253	\$ 11,399	\$ 513	\$ 156,694	\$ 8,974,586
RA3	\$ 14,052,582	\$ 15,677,852	\$ 17,660,379	\$ 1,208,717	\$ 23,173,203	\$ 952,879	\$ 155,634	\$ 600	\$ 386,999	\$ 73,268,845
RA3 Incremental	\$ 5,728,714	\$ 13,229,547	\$ 1,321,395	\$ 307,271	\$ 4,282,775	\$ 907,984	\$ 124,734	\$ 513	\$ 157,836	\$ 26,060,769
RA4	\$ 17,810,398	\$ 16,433,278	\$ 17,244,519	\$ 1,351,372	\$ 22,410,738	\$ 3,241,933	\$ 184,316	\$ 576	\$ 389,798	\$ 79,066,928
RA4 Incremental	\$ 9,486,529	\$ 13,984,973	\$ 905,536	\$ 449,925	\$ 3,520,310	\$ 3,197,038	\$ 153,417	\$ 489	\$ 160,635	\$ 31,858,852

**C.63 Annualized Rule Costs for Period 1 (2011-2035)**

Regulatory Alternative	Discount Rate	
	3%	7%
RA1	\$ 2,127,759	\$ 1,489,709
RA2	\$ 9,028,010	\$ 8,974,586
RA3	\$ 25,019,325	\$ 26,060,769
RA4	\$ 30,568,683	\$ 31,858,852

**C.64 Total and Incremental Rule Costs by Rule Component - Period 2 (2036-2060) Annualized Values Using a 3% Discount Rate**

Regulatory Alternative	Rule Component									
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin	TOTAL
RA0	\$ 45,083	\$ 1,010,581	\$ 1,235,968	\$ 143,488	\$ 20,318,577	\$ 100,409	\$ 553,736	\$ 460	\$ 105,300	\$ 23,513,603
RA1	\$ 30,826	\$ 2,046,512	\$ 1,256,269	\$ 151,085	\$ 21,597,236	\$ 154,657	\$ 814,811	\$ 486	\$ 106,224	\$ 26,158,107
RA1 Incremental	\$ (14,257)	\$ 1,035,931	\$ 20,301	\$ 7,598	\$ 1,278,660	\$ 54,248	\$ 261,076	\$ 26	\$ 923	\$ 2,644,504
RA2	\$ 51,280	\$ 4,185,945	\$ 1,295,451	\$ 151,085	\$ 22,165,770	\$ 154,657	\$ 867,218	\$ 538	\$ 106,337	\$ 28,978,281
RA2 Incremental	\$ 6,197	\$ 3,175,363	\$ 59,483	\$ 7,598	\$ 1,847,193	\$ 54,248	\$ 313,482	\$ 78	\$ 1,037	\$ 5,464,678
RA3	\$ 77,451	\$ 6,718,515	\$ 1,295,451	\$ 195,935	\$ 23,985,400	\$ 1,602,332	\$ 2,570,031	\$ 538	\$ 107,474	\$ 36,553,127
RA3 Incremental	\$ 32,368	\$ 5,707,934	\$ 59,483	\$ 52,447	\$ 3,666,823	\$ 1,501,923	\$ 2,016,295	\$ 78	\$ 2,174	\$ 13,039,524
RA4	\$ 100,726	\$ 8,200,312	\$ 1,235,968	\$ 185,692	\$ 23,100,825	\$ 5,044,443	\$ 3,036,406	\$ 510	\$ 109,776	\$ 41,014,658
RA4 Incremental	\$ 55,643	\$ 7,189,731	\$ -	\$ 42,205	\$ 2,782,248	\$ 4,944,033	\$ 2,482,670	\$ 49	\$ 4,476	\$ 17,501,055

**C.65 Total and Incremental Rule Costs by Rule Component - Period 2 (2036-2060) Annualized Values Using a 7% Discount Rate**

Regulatory Alternative	Rule Component										
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin	TOTAL	
RA0	\$ 25,750	\$ 448,448	\$ 705,949	\$ 81,956	\$ 9,344,265	\$ 47,632	\$ 204,893	\$ 170	\$ 42,981	\$ 10,902,045	
RA1	\$ 17,607	\$ 905,967	\$ 717,545	\$ 86,296	\$ 9,921,260	\$ 74,525	\$ 288,257	\$ 180	\$ 43,164	\$ 12,054,800	
RA1 Incremental	\$ (8,143)	\$ 457,519	\$ 11,596	\$ 4,339	\$ 576,995	\$ 26,893	\$ 83,363	\$ 9	\$ 183	\$ 1,152,755	
RA2	\$ 29,290	\$ 1,840,280	\$ 739,924	\$ 86,296	\$ 10,180,325	\$ 74,525	\$ 308,949	\$ 210	\$ 43,217	\$ 13,303,015	
RA2 Incremental	\$ 3,540	\$ 1,391,832	\$ 33,975	\$ 4,339	\$ 836,060	\$ 26,893	\$ 104,055	\$ 39	\$ 237	\$ 2,400,971	
RA3	\$ 44,238	\$ 2,976,350	\$ 739,924	\$ 111,912	\$ 10,982,034	\$ 759,156	\$ 851,466	\$ 210	\$ 44,055	\$ 16,509,344	
RA3 Incremental	\$ 18,488	\$ 2,527,902	\$ 33,975	\$ 29,956	\$ 1,637,769	\$ 711,524	\$ 646,572	\$ 39	\$ 1,074	\$ 5,607,299	
RA4	\$ 57,532	\$ 3,622,765	\$ 705,949	\$ 106,062	\$ 10,574,911	\$ 2,394,722	\$ 998,384	\$ 199	\$ 45,929	\$ 18,506,454	
RA4 Incremental	\$ 31,782	\$ 3,174,318	\$ -	\$ 24,106	\$ 1,230,646	\$ 2,347,091	\$ 793,491	\$ 28	\$ 2,948	\$ 7,604,409	

**C.66 Annualized Rule Costs for Period 2 (2036-2060)**

Regulatory Alternative	Discount Rate	
	3%	7%
RA1	\$ 2,644,504	\$ 1,152,755
RA2	\$ 5,464,678	\$ 2,400,971
RA3	\$ 13,039,524	\$ 5,607,299
RA4	\$ 17,501,055	\$ 7,604,409

**C.67 Total and Incremental Rule Costs by Rule Component - Periods 1 & 2 (2011-2060) Annualized Values Using a 3% Discount Rate**

Regulatory Alternative	Rule Component									
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin	TOTAL
RA0	\$ 6,695,677	\$ 3,393,468	\$ 16,167,953	\$ 1,085,005	\$ 41,805,650	\$ 153,973	\$ 586,131	\$ 549	\$ 324,887	\$ 70,213,292
RA1	\$ 4,118,850	\$ 7,065,977	\$ 16,527,285	\$ 1,142,218	\$ 44,618,958	\$ 224,788	\$ 856,692	\$ 574	\$ 430,213	\$ 74,985,555
RA1 Incremental	\$ (2,576,826)	\$ 3,672,509	\$ 359,333	\$ 57,213	\$ 2,813,308	\$ 70,816	\$ 270,561	\$ 26	\$ 105,325	\$ 4,772,263
RA2	\$ 7,418,809	\$ 11,425,271	\$ 17,284,311	\$ 1,142,218	\$ 45,866,066	\$ 224,788	\$ 912,745	\$ 1,118	\$ 430,656	\$ 84,705,980
RA2 Incremental	\$ 723,132	\$ 8,031,803	\$ 1,116,358	\$ 57,213	\$ 4,060,416	\$ 70,816	\$ 326,614	\$ 569	\$ 105,768	\$ 14,492,688
RA3	\$ 11,304,487	\$ 21,950,254	\$ 17,368,848	\$ 1,463,981	\$ 50,265,412	\$ 2,728,888	\$ 2,756,390	\$ 1,118	\$ 432,764	\$ 108,272,141
RA3 Incremental	\$ 4,608,810	\$ 18,556,786	\$ 1,200,895	\$ 378,976	\$ 8,459,761	\$ 2,574,915	\$ 2,170,259	\$ 569	\$ 107,877	\$ 38,058,849
RA4	\$ 14,337,662	\$ 24,433,369	\$ 16,887,730	\$ 1,549,880	\$ 48,506,414	\$ 8,869,127	\$ 3,259,953	\$ 1,066	\$ 437,829	\$ 118,283,030
RA4 Incremental	\$ 7,641,985	\$ 21,039,901	\$ 719,778	\$ 464,875	\$ 6,700,763	\$ 8,715,154	\$ 2,673,822	\$ 518	\$ 112,941	\$ 48,069,738

**C.68 Total and Incremental Rule Costs by Rule Component - Periods 1 & 2 (2011-2060) Annualized Values Using a 7% Discount Rate**

Regulatory Alternative	Rule Component										
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin	TOTAL	
RA0	\$ 8,349,619	\$ 2,896,753	\$ 17,044,932	\$ 983,403	\$ 28,234,693	\$ 92,527	\$ 235,793	\$ 257	\$ 272,144	\$ 58,110,120	
RA1	\$ 5,128,457	\$ 6,083,606	\$ 17,446,471	\$ 1,035,294	\$ 30,172,129	\$ 130,673	\$ 327,123	\$ 267	\$ 428,565	\$ 60,752,584	
RA1 Incremental	\$ (3,221,162)	\$ 3,186,854	\$ 401,538	\$ 51,891	\$ 1,937,436	\$ 38,146	\$ 91,330	\$ 9	\$ 156,421	\$ 2,642,464	
RA2	\$ 9,249,944	\$ 8,962,376	\$ 18,293,829	\$ 1,035,294	\$ 31,032,430	\$ 130,673	\$ 351,247	\$ 809	\$ 429,075	\$ 69,485,677	
RA2 Incremental	\$ 900,325	\$ 6,065,624	\$ 1,248,896	\$ 51,891	\$ 2,797,737	\$ 38,146	\$ 115,454	\$ 552	\$ 156,931	\$ 11,375,557	
RA3	\$ 14,096,820	\$ 18,654,202	\$ 18,400,302	\$ 1,320,630	\$ 34,155,237	\$ 1,712,035	\$ 1,007,100	\$ 809	\$ 431,054	\$ 89,778,189	
RA3 Incremental	\$ 5,747,201	\$ 15,757,449	\$ 1,355,370	\$ 337,227	\$ 5,920,544	\$ 1,619,508	\$ 771,307	\$ 552	\$ 158,910	\$ 31,668,069	
RA4	\$ 17,867,929	\$ 20,056,043	\$ 17,950,468	\$ 1,457,434	\$ 32,985,649	\$ 5,636,655	\$ 1,182,701	\$ 775	\$ 435,727	\$ 97,573,381	
RA4 Incremental	\$ 9,518,310	\$ 17,159,291	\$ 905,536	\$ 474,031	\$ 4,750,956	\$ 5,544,128	\$ 946,908	\$ 518	\$ 163,584	\$ 39,463,261	

**C.69 Annualized Rule Costs for Periods 1 & 2 (2011-2060)**

Regulatory Alternative	Discount Rate	
	3%	7%
RA1	\$ 4,772,263	\$ 2,642,464
RA2	\$ 14,492,688	\$ 11,375,557
RA3	\$ 38,058,849	\$ 31,668,069
RA4	\$ 48,069,738	\$ 39,463,261

**C.70 Rule Costs by Cost Type - Period 1 (2011-2035) Annualized Values Using a 3% Discount Rate**

Regulatory Alternative	One-Time Costs	Capital Costs	O&M Costs	Total
RA0	\$ 9,140,947	\$ 14,368,584	\$ 23,190,158	\$ 46,699,689
RA1	\$ 6,860,994	\$ 15,561,274	\$ 26,405,180	\$ 48,827,449
RA1 Incremental	\$ (2,279,953)	\$ 1,192,690	\$ 3,215,022	\$ 2,127,759
RA2	\$ 10,165,998	\$ 16,299,570	\$ 29,262,132	\$ 55,727,700
RA2 Incremental	\$ 1,025,051	\$ 1,930,985	\$ 6,071,974	\$ 9,028,010
RA3	\$ 14,503,747	\$ 20,171,726	\$ 37,043,541	\$ 71,719,014
RA3 Incremental	\$ 5,362,800	\$ 5,803,142	\$ 13,853,383	\$ 25,019,325
RA4	\$ 17,509,918	\$ 19,601,846	\$ 40,156,608	\$ 77,268,372
RA4 Incremental	\$ 8,368,971	\$ 5,233,262	\$ 16,966,449	\$ 30,568,683

**C.71 Rule Costs by Cost Type - Period 1 (2011-2035) Annualized Values Using a 7% Discount Rate**

Regulatory Alternative	One-Time Costs	Capital Costs	O&M Costs	Total
RA0	\$ 10,849,117	\$ 15,850,647	\$ 20,508,312	\$ 47,208,076
RA1	\$ 7,975,848	\$ 17,283,164	\$ 23,438,772	\$ 48,697,785
RA1 Incremental	\$ (2,873,268)	\$ 1,432,517	\$ 2,930,461	\$ 1,489,709
RA2	\$ 12,111,878	\$ 18,125,202	\$ 25,945,582	\$ 56,182,661
RA2 Incremental	\$ 1,262,761	\$ 2,274,555	\$ 5,437,270	\$ 8,974,586
RA3	\$ 17,399,970	\$ 22,751,602	\$ 33,117,273	\$ 73,268,845
RA3 Incremental	\$ 6,550,854	\$ 6,900,954	\$ 12,608,961	\$ 26,060,769
RA4	\$ 21,194,997	\$ 22,137,948	\$ 35,733,982	\$ 79,066,928
RA4 Incremental	\$ 10,345,881	\$ 6,287,301	\$ 15,225,671	\$ 31,858,852

**C.72 Rule Costs by Cost Type - Period 2 (2036-2060) Annualized Values Using a 3% Discount Rate**

Regulatory Alternative	One-Time Costs	Capital Costs	O&M Costs	Total
RA0	\$ 811,545	\$ 1,126,444	\$ 21,575,614	\$ 23,513,603
RA1	\$ 1,034,760	\$ 1,166,085	\$ 23,957,262	\$ 26,158,107
RA1 Incremental	\$ 223,215	\$ 39,641	\$ 2,381,648	\$ 2,644,504
RA2	\$ 1,099,109	\$ 1,209,597	\$ 26,669,574	\$ 28,978,281
RA2 Incremental	\$ 287,564	\$ 83,154	\$ 5,093,960	\$ 5,464,678
RA3	\$ 2,064,048	\$ 1,344,338	\$ 33,144,741	\$ 36,553,127
RA3 Incremental	\$ 1,252,503	\$ 217,894	\$ 11,569,127	\$ 13,039,524
RA4	\$ 1,972,445	\$ 1,289,547	\$ 37,752,665	\$ 41,014,658
RA4 Incremental	\$ 1,160,900	\$ 163,104	\$ 16,177,051	\$ 17,501,055

**C.73 Rule Costs by Cost Type - Period 2 (2036-2060) Annualized Values Using a 7% Discount Rate**

Regulatory Alternative	One-Time Costs	Capital Costs	O&M Costs	Total
RA0	\$ 370,643	\$ 643,392	\$ 9,888,009	\$ 10,902,045
RA1	\$ 443,017	\$ 666,034	\$ 10,945,748	\$ 12,054,800
RA1 Incremental	\$ 72,374	\$ 22,642	\$ 1,057,739	\$ 1,152,755
RA2	\$ 472,673	\$ 690,887	\$ 12,139,455	\$ 13,303,015
RA2 Incremental	\$ 102,030	\$ 47,495	\$ 2,251,446	\$ 2,400,971
RA3	\$ 802,049	\$ 767,847	\$ 14,939,448	\$ 16,509,344
RA3 Incremental	\$ 431,406	\$ 124,455	\$ 5,051,439	\$ 5,607,299
RA4	\$ 773,175	\$ 736,552	\$ 16,996,726	\$ 18,506,454
RA4 Incremental	\$ 402,532	\$ 93,160	\$ 7,108,717	\$ 7,604,409

**C.74 Total and Incremental Rule Costs - Periods 1 & 2 (2011-2060) Annualized Values Using a 3% Discount Rate**

Regulatory Alternative	One-Time Costs	Capital Costs	O&M Costs	Total
RA0	\$ 9,952,492	\$ 15,495,028	\$ 44,765,773	\$ 70,213,292
RA1	\$ 7,895,754	\$ 16,727,359	\$ 50,362,442	\$ 74,985,555
RA1 Incremental	\$ (2,056,738)	\$ 1,232,331	\$ 5,596,670	\$ 4,772,263
RA2	\$ 11,265,107	\$ 17,509,167	\$ 55,931,706	\$ 84,705,980
RA2 Incremental	\$ 1,312,616	\$ 2,014,139	\$ 11,165,934	\$ 14,492,688
RA3	\$ 16,567,794	\$ 21,516,064	\$ 70,188,283	\$ 108,272,141
RA3 Incremental	\$ 6,615,303	\$ 6,021,036	\$ 25,422,510	\$ 38,058,849
RA4	\$ 19,482,363	\$ 20,891,394	\$ 77,909,273	\$ 118,283,030
RA4 Incremental	\$ 9,529,872	\$ 5,396,366	\$ 33,143,500	\$ 48,069,738

**C.75 Total and Incremental Rule Costs - Periods 1 & 2 (2011-2060) Annualized Values Using a 7% Discount Rate**

Regulatory Alternative	One-Time Costs	Capital Costs	O&M Costs	Total
RA0	\$ 11,219,760	\$ 16,494,039	\$ 30,396,321	\$ 58,110,120
RA1	\$ 8,418,865	\$ 17,949,198	\$ 34,384,521	\$ 60,752,584
RA1 Incremental	\$ (2,800,894)	\$ 1,455,159	\$ 3,988,200	\$ 2,642,464
RA2	\$ 12,584,551	\$ 18,816,089	\$ 38,085,037	\$ 69,485,677
RA2 Incremental	\$ 1,364,791	\$ 2,322,050	\$ 7,688,716	\$ 11,375,557
RA3	\$ 18,202,019	\$ 23,519,449	\$ 48,056,721	\$ 89,778,189
RA3 Incremental	\$ 6,982,259	\$ 7,025,409	\$ 17,660,400	\$ 31,668,069
RA4	\$ 21,968,173	\$ 22,874,500	\$ 52,730,709	\$ 97,573,381
RA4 Incremental	\$ 10,748,413	\$ 6,380,461	\$ 22,334,388	\$ 39,463,261

**C.76 Annualized Rule Costs by Regulatory Alternative Per Metric Ton and Per Project\***

Regulatory Alternative	Metric Tonnes of CO2 Injected <sup>1</sup>	Metric Tonnes of CO2 Injected <sup>2</sup>	Number of Projects Deployed	Annualized Rule Cost (\$MM)		Annualized Rule Cost Per Metric Tonne (\$)		Annualized Rule Cost Per Project (\$MM)	
				3%	7%	3%	7%	3%	7%
RA0	26,019,040	17,992,359	25.1	\$ 70.2	\$ 58.1	\$ 2.70	\$ 3.23	\$ 2.8	\$ 2.3
RA1	27,423,922	18,962,247	26.4	\$ 75.0	\$ 60.8	\$ 2.73	\$ 3.20	\$ 2.8	\$ 2.3
RA1 Incremental	1,404,883	969,888	1.3	\$ 4.8	\$ 2.6	\$ 0.04	\$ (0.03)	\$ 0.0	\$ (0.0)
RA2	27,423,922	18,962,247	26.4	\$ 84.7	\$ 69.5	\$ 3.09	\$ 3.66	\$ 3.2	\$ 2.6
RA2 Incremental	1,404,883	969,888	1.3	\$ 14.5	\$ 11.4	\$ 0.39	\$ 0.43	\$ 0.4	\$ 0.3
RA3	27,423,922	18,962,247	26.4	\$ 108.3	\$ 89.8	\$ 3.95	\$ 4.73	\$ 4.1	\$ 3.4
RA3 Incremental	1,404,883	969,888	1.3	\$ 38.1	\$ 31.7	\$ 1.25	\$ 1.50	\$ 1.3	\$ 1.1
RA4	26,019,040	17,992,359	25.1	\$ 118.3	\$ 97.6	\$ 4.55	\$ 5.42	\$ 4.7	\$ 3.9
RA4 Incremental	0	0	0.0	\$ 48.1	\$ 39.5	\$ 1.85	\$ 2.19	\$ 1.9	\$ 1.6

Note: It is estimated that 25 - 26 of the 29 baseline projects (depending on the RA) will successfully deploy over the 50 year period of analysis. Annualized rule cost per project is based on the number of successfully deployed projects.

<sup>1</sup> Injected volumes are discounted to the first year of the analysis and annualized over 25 years at 3% discounting for comparability to annualized costs.

<sup>2</sup> Injected volumes are discounted to the first year of the analysis and annualized over 25 years at 7% discounting for comparability to annualized costs.

**C.77 Annualized Rule Costs by Project Type Per Metric Ton and Per Project**

Project Type	Metric Tonnes of CO2 Injected <sup>1</sup>	Metric Tonnes of CO2 Injected <sup>2</sup>	No. of Projects Deployed <sup>3</sup>	Annualized Incremental Cost by Project Type (\$MM)		Annualized Incremental Rule Cost Per Metric Tonne (\$) <sup>4</sup>		Annualized Incremental Rule Cost Per Project (\$MM)	
				3%	7%	3%	7%	3%	7%
Pilot Saline	268,360	290,733	2.0	\$ 0.8	\$ 0.8	\$ 3.11	\$ 2.73	\$ 0.4	\$ 0.4
Large Saline	20,197,218	14,777,956	9.4	\$ 25.4	\$ 22.8	\$ 1.26	\$ 1.54	\$ 2.7	\$ 2.4
Large Saline Waivered	1,122,068	820,998	0.5	\$ 4.6	\$ 4.4	\$ 4.13	\$ 5.41	\$ 8.9	\$ 8.5
ER	5,553,462	2,923,671	13.7	\$ 5.8	\$ 2.9	\$ 1.04	\$ 1.00	\$ 0.4	\$ 0.2
ER Waivered	282,815	148,891	0.8	\$ 1.4	\$ 0.8	\$ 5.04	\$ 5.26	\$ 1.9	\$ 1.0
All Formations	27,423,922	18,962,247	26.4	\$ 38.1	\$ 31.8	\$ 1.39	\$ 1.67	\$ 1.4	\$ 1.2

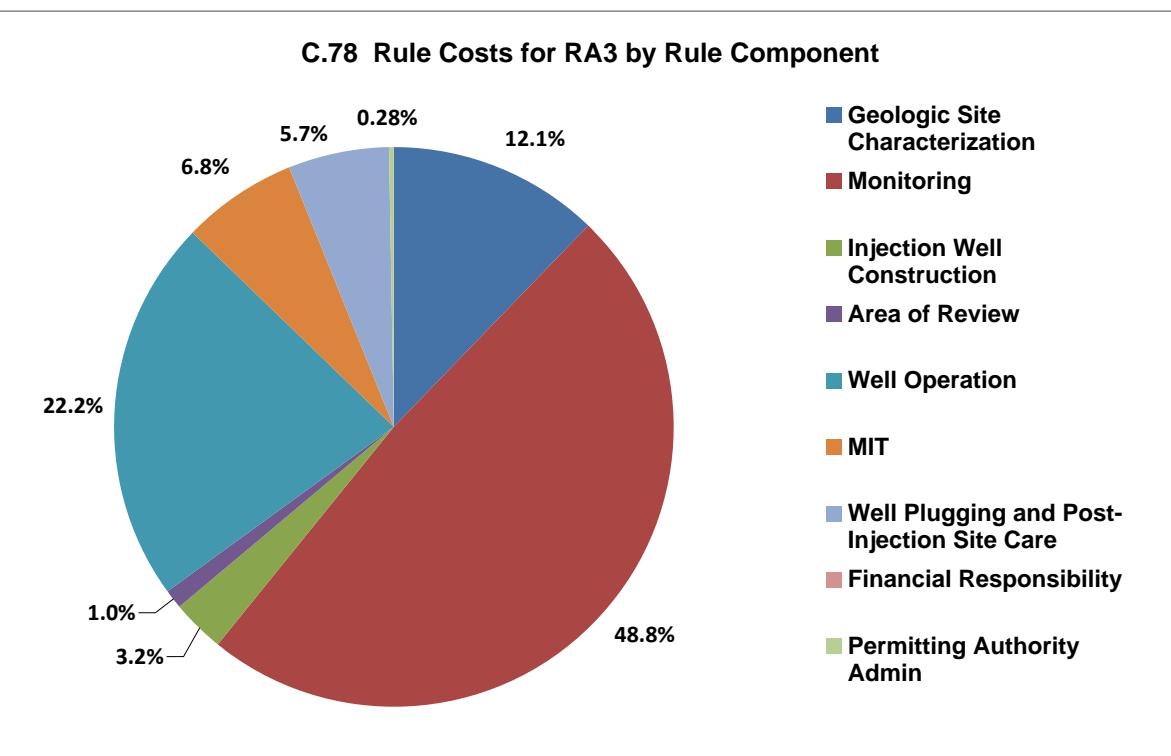
<sup>1</sup> Injected volumes are discounted to the first year of the analysis and annualized over 25 years at 3% discounting for comparability to annualized costs.

<sup>2</sup> Injected volumes are discounted to the first year of the analysis and annualized over 25 years at 7% discounting for comparability to annualized costs.

<sup>3</sup> "Number of projects deployed" in above table is based on RA3 (and RA1 and RA2, which are identical in #projects); since under RA0 and RA4 no waivers are allowed, those projects for which a waiver would be sought are assumed not to go forward under RA0 and RA4, resulting in a slightly lower number of projects moving forward under those scenarios as compared to RA1, RA2, and RA3. This difference ultimately is the 5% that are approved for waiver under RA1, RA2, and RA3.

<sup>4</sup> Because Large Saline Waivered and ER Waivered projects don't exist under RA0, the annualized incremental rule cost per metric tonne is equal to the total project cost per metric tonne for those two project types.

**C.78 Rule Costs for RA3 by Rule Component**



C.79 Total and Incremental Rule Costs Assuming 5 Pilot Saline Projects are Implemented During the Period of Analysis

Regulatory Alternative	Cost Component									
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin	TOTAL
3 Percent Discount Rate										
RA0	\$ 772,248	\$ 74,408	\$ 3,098,983	\$ 21,025	\$ 1,408,698	\$ 2,461	\$ 75,748	\$ 255	\$ 318,901	\$ 5,772,727
RA1	\$ 451,692	\$ 136,757	\$ 3,054,837	\$ 17,694	\$ 1,408,418	\$ 2,461	\$ 102,230	\$ 255	\$ 422,800	\$ 5,597,145
RA1 Incremental	\$ (320,556)	\$ 62,349	\$ (44,146)	\$ (3,331)	\$ (279)	\$ -	\$ 26,483	\$ -	\$ 103,899	\$ (175,581)
RA2	\$ 775,694	\$ 151,633	\$ 3,267,198	\$ 17,694	\$ 1,462,710	\$ 2,461	\$ 112,799	\$ 403	\$ 422,987	\$ 6,213,579
RA2 Incremental	\$ 3,446	\$ 77,225	\$ 168,215	\$ (3,331)	\$ 54,012	\$ -	\$ 37,051	\$ 148	\$ 104,086	\$ 440,853
RA3	\$ 1,173,186	\$ 743,664	\$ 3,295,198	\$ 24,407	\$ 1,548,334	\$ 79,356	\$ 791,234	\$ 403	\$ 423,015	\$ 8,078,798
RA3 Incremental	\$ 400,938	\$ 669,256	\$ 196,215	\$ 3,382	\$ 139,637	\$ 76,896	\$ 715,487	\$ 148	\$ 104,113	\$ 2,306,071
RA4	\$ 1,650,609	\$ 760,732	\$ 3,374,469	\$ 31,032	\$ 1,573,842	\$ 313,470	\$ 1,343,586	\$ 403	\$ 423,449	\$ 9,471,594
RA4 Incremental	\$ 878,360	\$ 686,324	\$ 275,487	\$ 10,008	\$ 165,145	\$ 311,010	\$ 1,267,838	\$ 148	\$ 104,548	\$ 3,698,868
7 Percent Discount Rate										
RA0	\$ 1,110,781	\$ 104,274	\$ 4,457,490	\$ 30,242	\$ 1,848,420	\$ 3,286	\$ 85,804	\$ 304	\$ 266,359	\$ 7,906,959
RA1	\$ 649,702	\$ 191,799	\$ 4,393,993	\$ 25,451	\$ 1,848,054	\$ 3,286	\$ 112,484	\$ 304	\$ 421,606	\$ 7,646,678
RA1 Incremental	\$ (461,079)	\$ 87,525	\$ (63,498)	\$ (4,791)	\$ (366)	\$ -	\$ 26,680	\$ -	\$ 155,247	\$ (260,282)
RA2	\$ 1,115,737	\$ 212,224	\$ 4,699,446	\$ 25,451	\$ 1,919,577	\$ 3,286	\$ 124,521	\$ 517	\$ 421,869	\$ 8,522,626
RA2 Incremental	\$ 4,956	\$ 107,950	\$ 241,956	\$ (4,791)	\$ 71,157	\$ -	\$ 38,716	\$ 213	\$ 155,510	\$ 615,667
RA3	\$ 1,687,478	\$ 1,050,071	\$ 4,739,721	\$ 35,106	\$ 2,031,863	\$ 104,014	\$ 668,087	\$ 517	\$ 421,909	\$ 10,738,764
RA3 Incremental	\$ 576,697	\$ 945,796	\$ 282,230	\$ 4,665	\$ 183,442	\$ 100,728	\$ 582,283	\$ 213	\$ 155,549	\$ 2,831,804
RA4	\$ 2,374,189	\$ 1,073,046	\$ 4,853,742	\$ 44,636	\$ 2,065,630	\$ 410,871	\$ 950,016	\$ 517	\$ 422,515	\$ 12,195,162
RA4 Incremental	\$ 1,263,409	\$ 968,771	\$ 396,252	\$ 14,395	\$ 217,210	\$ 407,586	\$ 864,212	\$ 213	\$ 156,155	\$ 4,288,203

C.80 Total and Incremental Rule Costs Assuming 54 Large Saline Projects are Implemented During the Period of Analysis

Regulatory Alternative	Cost Component									
	Geologic Site Characterization	Monitoring	Injection Well Construction	Area of Review	Well Operation	MIT	Well Plugging and Post-Injection Site Care	Financial Responsibility	Permitting Authority Admin	TOTAL
3 Percent Discount Rate										
RA0	\$ 50,953,547	\$ 28,874,842	\$ 98,350,865	\$ 4,511,283	\$ 277,256,676	\$ 576,147	\$ 819,299	\$ 696	\$ 345,531	\$ 461,688,885
RA1	\$ 27,572,781	\$ 54,497,072	\$ 97,465,822	\$ 4,475,035	\$ 284,142,897	\$ 576,147	\$ 1,320,509	\$ 696	\$ 450,238	\$ 470,501,197
RA1 Incremental	\$ (23,380,766)	\$ 25,622,230	\$ (885,043)	\$ (36,249)	\$ 6,886,221	\$ -	\$ 501,210	\$ -	\$ 104,708	\$ 8,812,312
RA2	\$ 50,983,153	\$ 83,900,582	\$ 101,723,283	\$ 4,475,035	\$ 291,880,830	\$ 576,147	\$ 1,375,431	\$ 1,968	\$ 451,560	\$ 535,367,988
RA2 Incremental	\$ 29,606	\$ 55,025,740	\$ 3,372,418	\$ (36,249)	\$ 14,624,154	\$ -	\$ 556,132	\$ 1,272	\$ 106,030	\$ 73,679,102
RA3	\$ 77,257,827	\$ 168,779,511	\$ 102,284,640	\$ 5,581,304	\$ 327,728,537	\$ 10,749,182	\$ 3,378,936	\$ 1,968	\$ 459,339	\$ 696,221,243
RA3 Incremental	\$ 26,304,280	\$ 139,904,668	\$ 3,933,775	\$ 1,070,021	\$ 50,471,862	\$ 10,173,035	\$ 2,559,637	\$ 1,272	\$ 113,808	\$ 234,532,358
RA4	\$ 106,620,815	\$ 195,847,214	\$ 103,873,894	\$ 7,302,162	\$ 332,485,513	\$ 37,942,724	\$ 3,918,985	\$ 1,968	\$ 481,800	\$ 788,475,075
RA4 Incremental	\$ 55,667,268	\$ 166,972,372	\$ 5,523,029	\$ 2,790,879	\$ 55,228,838	\$ 37,366,578	\$ 3,099,685	\$ 1,272	\$ 136,270	\$ 326,786,190
7 Percent Discount Rate										
RA0	\$ 57,774,639	\$ 23,403,945	\$ 111,516,980	\$ 5,115,203	\$ 185,540,101	\$ 371,019	\$ 221,536	\$ 174	\$ 295,502	\$ 384,239,101
RA1	\$ 31,263,917	\$ 44,612,314	\$ 110,513,458	\$ 5,074,102	\$ 190,144,734	\$ 371,019	\$ 346,827	\$ 174	\$ 451,577	\$ 382,778,122
RA1 Incremental	\$ (26,510,722)	\$ 21,208,363	\$ (1,003,522)	\$ (41,101)	\$ 4,604,632	\$ -	\$ 125,291	\$ -	\$ 156,075	\$ (1,460,979)
RA2	\$ 57,808,208	\$ 63,063,585	\$ 115,340,860	\$ 5,074,102	\$ 195,344,106	\$ 371,019	\$ 360,521	\$ 1,616	\$ 453,222	\$ 437,817,239
RA2 Incremental	\$ 33,569	\$ 39,659,639	\$ 3,823,880	\$ (41,101)	\$ 9,804,005	\$ -	\$ 138,984	\$ 1,442	\$ 157,720	\$ 53,578,138
RA3	\$ 87,600,243	\$ 137,473,514	\$ 115,977,365	\$ 6,328,467	\$ 219,316,286	\$ 7,129,887	\$ 872,754	\$ 1,616	\$ 461,112	\$ 575,161,243
RA3 Incremental	\$ 29,825,601	\$ 114,069,569	\$ 4,460,385	\$ 1,213,263	\$ 33,776,184	\$ 6,758,867	\$ 651,217	\$ 1,442	\$ 165,610	\$ 190,922,142
RA4	\$ 120,894,019	\$ 154,483,244	\$ 117,779,371	\$ 8,279,694	\$ 222,521,484	\$ 25,371,287	\$ 1,002,357	\$ 1,616	\$ 484,137	\$ 650,817,208
RA4 Incremental	\$ 63,119,380	\$ 131,079,298	\$ 6,262,390	\$ 3,164,490	\$ 36,981,383	\$ 25,000,267	\$ 780,821	\$ 1,442	\$ 188,635	\$ 266,578,107

C.81 Total and Incremental Rule Costs by Cost Type, Assuming 5 Pilot Saline Projects are Implemented During the Period of Analysis (\$Millions, 2008\$)

Regulatory Alternative	One-Time Costs		Capital Costs		O&M Costs		Total Costs	
	Cost, 2008\$	Increase or Decrease, \$2008 <sup>1</sup>	Cost, 2008\$	Increase or Decrease, \$2008 <sup>1</sup>	Cost, 2008\$	Increase or Decrease, \$2008 <sup>1</sup>	Cost, 2008\$	Increase or Decrease, \$2008 <sup>1</sup>
3 Percent Discount Rate								
RA0	\$ 1.0	\$ (8.9)	\$ 3.0	\$ (12.5)	\$ 1.8	\$ (43.0)	\$ 5.8	\$ (64.4)
RA1	\$ 0.8	\$ (7.1)	\$ 3.0	\$ (13.8)	\$ 1.8	\$ (48.6)	\$ 5.6	\$ (69.4)
RA1 Incremental	\$ (0.2)	\$ 1.9	\$ (0.0)	\$ (1.2)	\$ 0.0	\$ (5.6)	\$ (0.2)	\$ (4.9)
RA2	\$ 1.2	\$ (10.1)	\$ 3.2	\$ (14.3)	\$ 1.9	\$ (54.1)	\$ 6.2	\$ (78.5)
RA2 Incremental	\$ 0.1	\$ (1.2)	\$ 0.2	\$ (1.8)	\$ 0.1	\$ (11.1)	\$ 0.4	\$ (14.1)
RA3	\$ 2.0	\$ (14.6)	\$ 3.6	\$ (17.9)	\$ 2.5	\$ (67.7)	\$ 8.1	\$ (100.2)
RA3 Incremental	\$ 0.9	\$ (5.7)	\$ 0.6	\$ (5.4)	\$ 0.7	\$ (24.7)	\$ 2.3	\$ (35.8)
RA4	\$ 2.6	\$ (16.9)	\$ 3.7	\$ (17.2)	\$ 3.2	\$ (74.7)	\$ 9.5	\$ (108.8)
RA4 Incremental	\$ 1.6	\$ (8.0)	\$ 0.7	\$ (4.7)	\$ 1.4	\$ (31.7)	\$ 3.7	\$ (44.4)
7 Percent Discount Rate								
RA0	\$ 1.5	\$ (9.8)	\$ 4.3	\$ (12.2)	\$ 2.2	\$ (28.2)	\$ 7.9	\$ (50.2)
RA1	\$ 1.2	\$ (7.2)	\$ 4.3	\$ (13.7)	\$ 2.2	\$ (32.2)	\$ 7.6	\$ (53.1)
RA1 Incremental	\$ (0.3)	\$ 2.5	\$ (0.0)	\$ (1.5)	\$ 0.0	\$ (4.0)	\$ (0.3)	\$ (2.9)
RA2	\$ 1.7	\$ (10.9)	\$ 4.6	\$ (14.2)	\$ 2.3	\$ (35.8)	\$ 8.5	\$ (61.0)
RA2 Incremental	\$ 0.2	\$ (1.2)	\$ 0.3	\$ (2.0)	\$ 0.1	\$ (7.6)	\$ 0.6	\$ (10.8)
RA3	\$ 2.6	\$ (15.6)	\$ 5.2	\$ (18.3)	\$ 3.0	\$ (45.1)	\$ 10.7	\$ (79.0)
RA3 Incremental	\$ 1.1	\$ (5.9)	\$ 0.9	\$ (6.1)	\$ 0.8	\$ (16.8)	\$ 2.8	\$ (28.8)
RA4	\$ 3.3	\$ (18.6)	\$ 5.3	\$ (17.6)	\$ 3.6	\$ (49.2)	\$ 12.2	\$ (85.4)
RA4 Incremental	\$ 1.9	\$ (8.9)	\$ 1.0	\$ (5.4)	\$ 1.4	\$ (20.9)	\$ 4.3	\$ (35.2)

<sup>1</sup> As compared to GS Rule deployment schedule of 29 projects.

C.82 Total and Incremental Rule Costs by Cost Type, Assuming 54 Large Saline Projects are Implemented During the Period of Analysis (\$Millions, 2008\$)

Regulatory Alternative	One-Time Costs		Capital Costs		O&M Costs		Total Costs	
	Cost, 2008\$	Increase or Decrease, \$2008 <sup>1</sup>	Cost, 2008\$	Increase or Decrease, \$2008 <sup>1</sup>	Cost, 2008\$	Increase or Decrease, \$2008 <sup>1</sup>	Cost, 2008\$	Increase or Decrease, \$2008 <sup>1</sup>
3 Percent Discount Rate								
RA0	\$ 64	\$ 54	\$ 98	\$ 82	\$ 300	\$ 255	\$ 462	\$ 391
RA1	\$ 42	\$ 34	\$ 104	\$ 87	\$ 325	\$ 274	\$ 471	\$ 396
RA1 Incremental	\$ (23)	\$ (21)	\$ 6	\$ 5	\$ 25	\$ 20	\$ 9	\$ 4
RA2	\$ 65	\$ 54	\$ 108	\$ 91	\$ 362	\$ 306	\$ 535	\$ 451
RA2 Incremental	\$ 1	\$ (0)	\$ 10	\$ 8	\$ 62	\$ 51	\$ 74	\$ 59
RA3	\$ 94	\$ 78	\$ 140	\$ 118	\$ 462	\$ 392	\$ 696	\$ 588
RA3 Incremental	\$ 30	\$ 23	\$ 42	\$ 36	\$ 162	\$ 137	\$ 235	\$ 196
RA4	\$ 126	\$ 106	\$ 142	\$ 121	\$ 521	\$ 443	\$ 788	\$ 670
RA4 Incremental	\$ 61	\$ 52	\$ 44	\$ 39	\$ 222	\$ 188	\$ 327	\$ 279
7 Percent Discount Rate								
RA0	\$ 72	\$ 61	\$ 111	\$ 94	\$ 201	\$ 171	\$ 384	\$ 326
RA1	\$ 46	\$ 38	\$ 118	\$ 100	\$ 219	\$ 184	\$ 383	\$ 322
RA1 Incremental	\$ (26)	\$ (23)	\$ 7	\$ 6	\$ 18	\$ 14	\$ (1)	\$ (4)
RA2	\$ 73	\$ 60	\$ 123	\$ 104	\$ 242	\$ 204	\$ 438	\$ 368
RA2 Incremental	\$ 1	\$ (1)	\$ 12	\$ 10	\$ 41	\$ 33	\$ 54	\$ 42
RA3	\$ 105	\$ 87	\$ 159	\$ 135	\$ 312	\$ 263	\$ 575	\$ 485
RA3 Incremental	\$ 33	\$ 26	\$ 48	\$ 41	\$ 111	\$ 93	\$ 191	\$ 159
RA4	\$ 140	\$ 118	\$ 161	\$ 138	\$ 350	\$ 297	\$ 651	\$ 553
RA4 Incremental	\$ 68	\$ 57	\$ 50	\$ 44	\$ 149	\$ 126	\$ 267	\$ 227

<sup>1</sup> As compared to GS Rule deployment schedule of 29 projects.

**C.83 Total and Incremental Rule Costs Based on 100% Increased Labor Rate - Annualized Values Using a 3% Discount Rate (\$MM)**

Regulatory Alternative	One-Time Costs	% Change	Capital Costs	% Change	O&M Costs	% Change	Total	% Change
RA0	\$ 10.1	2%	\$ 15.5	0%	\$ 44.9	0%	\$ 70.6	1%
RA1	\$ 8.1	2%	\$ 16.7	0%	\$ 50.6	0%	\$ 75.4	1%
RA1 Incremental	\$ (2.1)	0%	\$ 1.2	0%	\$ 5.6	1%	\$ 4.8	1%
RA2	\$ 11.5	2%	\$ 17.5	0%	\$ 56.2	1%	\$ 85.2	1%
RA2 Incremental	\$ 1.3	1%	\$ 2.0	0%	\$ 11.3	1%	\$ 14.7	1%
RA3	\$ 16.9	2%	\$ 21.5	0%	\$ 70.8	1%	\$ 109.2	1%
RA3 Incremental	\$ 6.7	1%	\$ 6.0	0%	\$ 25.9	2%	\$ 38.6	2%
RA4	\$ 19.9	2%	\$ 20.9	0%	\$ 78.6	1%	\$ 119.4	1%
RA4 Incremental	\$ 9.7	2%	\$ 5.4	0%	\$ 33.7	2%	\$ 48.8	1%

% change shows difference between primary analysis and model run using 50% increased labor rate.

**C.84 Total and Incremental Rule Costs Based on 100% Increased Labor Rate - Annualized Values Using a 7% Discount Rate (\$MM)**

Regulatory Alternative	One-Time Costs	% Change	Capital Costs	% Change	O&M Costs	% Change	Total	% Change
RA0	\$ 11.4	2%	\$ 16.5	0%	\$ 30.5	0%	\$ 58.4	1%
RA1	\$ 8.6	3%	\$ 18.0	0%	\$ 34.5	0%	\$ 61.1	1%
RA1 Incremental	\$ (2.8)	0%	\$ 1.5	0%	\$ 4.0	0%	\$ 2.7	1%
RA2	\$ 12.8	2%	\$ 18.8	0%	\$ 38.3	1%	\$ 69.9	1%
RA2 Incremental	\$ 1.4	1%	\$ 2.3	0%	\$ 7.8	1%	\$ 11.5	1%
RA3	\$ 18.5	2%	\$ 23.5	0%	\$ 48.5	1%	\$ 90.5	1%
RA3 Incremental	\$ 7.1	2%	\$ 7.0	0%	\$ 18.0	2%	\$ 32.1	1%
RA4	\$ 22.4	2%	\$ 22.9	0%	\$ 53.2	1%	\$ 98.5	1%
RA4 Incremental	\$ 11.0	2%	\$ 6.4	0%	\$ 22.7	2%	\$ 40.0	1%

**C.85 Total and Incremental Rule Costs, Change in Cost from Primary Analysis Resulting from 25% Increase/Decrease in Wells - Annualized Values Using a 3% Discount Rate (\$MM)**

Regulatory Alternative	One-Time Costs	% Change	Capital Costs	% Change	O&M Costs	% Change	Total	% Change
Primary Analysis assumption	RA0 \$ 10.0		\$ 15.5		\$ 44.8		\$ 70.2	
	RA3 \$ 16.6		\$ 21.5		\$ 70.2		\$ 108.3	
	RA3 Incremental \$ 6.6		\$ 6.0		\$ 25.4		\$ 38.1	
25% decrease	RA0 \$ 9.9	-1%	\$ 15.3	-1%	\$ 44.0	-2%	\$ 69.2	-2%
	RA3 \$ 16.3	-2%	\$ 20.1	-6%	\$ 65.8	-6%	\$ 102.2	-6%
	RA3 Incremental \$ 6.4	-4%	\$ 4.8	-20%	\$ 21.8	-14%	\$ 33.0	-13%
25% increase	RA0 \$ 10.0	1%	\$ 15.7	1%	\$ 45.6	2%	\$ 71.3	2%
	RA3 \$ 16.9	2%	\$ 22.9	6%	\$ 74.6	6%	\$ 114.4	6%
	RA3 Incremental \$ 6.9	4%	\$ 7.2	20%	\$ 29.0	14%	\$ 43.1	13%

**C.86 Total and Incremental Rule Costs, Change in Cost from Primary Analysis Resulting from 25% Increase/Decrease in Wells - Annualized Values Using a 7% Discount Rate (\$MM)**

Regulatory Alternative	One-Time Costs	% Change	Capital Costs	% Change	O&M Costs	% Change	Total	% Change
Primary Analysis assumption	RA0 \$ 11.2		\$ 16.5		\$ 30.4		\$ 58.1	
	RA3 \$ 18.2		\$ 23.5		\$ 48.1		\$ 89.8	
	RA3 Incremental \$ 7.0		\$ 7.0		\$ 17.7		\$ 31.7	
25% decrease	RA0 \$ 11.2	0%	\$ 16.3	-1%	\$ 29.8	-2%	\$ 57.3	-1%
	RA3 \$ 18.1	-1%	\$ 21.9	-7%	\$ 44.8	-7%	\$ 84.8	-6%
	RA3 Incremental \$ 6.9	-1%	\$ 5.6	-20%	\$ 15.0	-15%	\$ 27.5	-13%
25% increase	RA0 \$ 11.2	0%	\$ 16.7	1%	\$ 31.0	2%	\$ 59.0	1%
	RA3 \$ 18.3	1%	\$ 25.1	7%	\$ 51.3	7%	\$ 94.8	6%
	RA3 Incremental \$ 7.1	1%	\$ 8.4	20%	\$ 20.3	15%	\$ 35.8	13%