PNM San Juan Generating Station
BART Analysis of SNCR
May 30, 2008

Introduction

In a letter dated April 25, 2008, the New Mexico Environmental Department – Air Quality Bureau (NMED) commented that the NO_x presumptive control level of 0.23 lb/MBtu for the San Juan Generating Station (SJGS) can be modified to alternative NO_x emission levels in order to evaluate control technologies that that are less effective and that do not meet the required presumptive emission level. Based on this reasoning, NMED requested additional analyses be performed. Specifically, the NMED requested additional consideration and modeling of the Nalco-Mobotec ROFA and Rotamix, and Selective Non-Catalytic Reduction (SNCR) NO_x control technologies.

As described in the June 6, 2007 BART application document and in PNM's March 31, 2008 response to NMED questions, the ROFA technology is a type of overfire air (OFA) system. As discussed in the March 31, 2008 filing, ROFA does not result in a lower NO_x emission rate than the LNB/OFA systems currently being installed at SJGS. Since PNM has already evaluated the impact of LNB/OFA system as part of its previous BART submittals, no additional analyses were done for the ROFA technology.

The Rotamix technology is a simply Nalco/Mobotec's version of SNCR control technology. Therefore, it does not need to be evaluated separately from other vendors of SNCR technology.

For SNCR technology the first three steps of the five step BART process were completed as part of the original BART submittal on June 6. 2007. However, because SNCR did not meet the presumptive limit of 0.23 lb/MBtu for subbituminous fuel, the last two steps were not completed. To review, the BART analysis is defined in the regional haze regulations and guidelines in 40 CFR Part 51. The following factors are considered when identifying the best method of emissions reduction:

- Technical feasibility.
- Cost of compliance.
- Energy and non-air quality environmental impacts of compliance.
- Existing pollution control equipment in use or installed at the source.
- Remaining useful life of the source.
- Degree of anticipated improvement in visibility.

The BART analysis consists of the following five steps to arrive at a selection of the best methods of emissions reduction for a BART-eligible source:

- Identify all available retrofit control technologies.
- Eliminate technically infeasible options.
- Evaluate control effectiveness of remaining control technologies.
- Evaluate impacts and document the results.
- Evaluate visibility impacts.

The two parts of this document complete the last two steps of the BART analysis for SNCR.

Part 1 - Engineering Impact Analysis

An engineering impact analysis was performed for the SNCR NO_x control technology. The results of that impact analysis are shown in Attachment 1. Table 7-1 in Attachment 1 is an update to the Table 7-1 found in PNM's original BART submittal of June 6, 2007. It has been updated to include the engineering impact of SNCR. In addition to Table 7-1, Attachment 1 also includes the Design Concept Definitions for SNCR and the detailed cost tables for installing SNCR on each unit at the SJGS.

Part 2 – Visibility Analysis

Subsequent to the June 6, 2007 submittal, PNM further investigated additional refinements to the BART CALPUFF air dispersion modeling analyses which included nitrate repartitioning and more realistic ammonia background concentrations based on monitored values at several western Class I areas. These additional modeling options are considered more realistic and therefore will again form the basis of this analysis.

To date, PNM has previously submitted three BART modeling analyses. To clarify the contents of these analyses, as well as for this submittal, a summary of each has been provided:

June 6, 2007

Modeling analysis were performed to provide SJGS plant-wide regional haze (visibility) impacts at 16 Class I areas. The analyses were based on a constant 1 ppb background ammonia concentration and no nitrate repartitioning. The NO_x control technologies analyzed were the Selective Catalytic Reduction (SCR) and SNCR/SCR Hybrid.

November 6, 2007

Modeling analysis were performed to provide SJGS plant-wide regional haze (visibility) impacts at 16 Class I areas. The analysis was based on refinements which included using the nitrate repartitioning methodology and monthly variable background ammonia concentrations. Again, the NO_x control technologies analyzed were the SCR and SNCR/SCR Hybrid.

March 31, 2008

Two main modeling analyses were performed to provide SJGS plant-wide and unit specific regional haze (visibility) impacts at 16 Class I areas for the SCR NO_x control technology only. One of the analyses, believed to be the more representative of ammonia chemistry of the area, was based on the November 6, 2007 refinements which included using the nitrate repartitioning methodology and monthly variable background ammonia concentrations. The other analyses included nitrate repartitioning and a constant background ammonia concentration as requested by the NMED.

May 30, 2008

Two modeling analyses were performed to provide SJGS plant-wide and unit specific regional haze (visibility) impacts at 16 Class I areas for the SNCR NO_x control technology only. Similar to the March 31, 2008 analyses, one of the analyses was based on the November 6, 2007 refinements which included using the nitrate repartitioning methodology and monthly variable background ammonia concentrations. The other analyses included nitrate repartitioning and a constant background ammonia concentration. It should be noted that all vendors of SNCR (including Fuel Tech and Nalco/Mobotec) have been modeled together as one technology called SNCR. This is the same approach that is used for modeling SCR control technology, where all vendors are modeled generically as SCR.

The modeling refinements contained in this submittal using nitrate repartitioning and the variable ammonia background, as well as the November 2007 and March 2008 submittals, supersedes the original June 2007 BART modeling analyses as PNM believes these analyses are more representative. Therefore, the purpose of this section is to again, summarize the two refinements used and to provide supplemental information on the background ammonia data. Lastly, the document will summarize the SJGS plant-wide

and unit specific modeling for the SNCR control technology scenario using nitrate repartitioning and a both a variable and constant ammonia background.

Nitrate Repartitioning

The first refinement for the SJGS BART visibility analyses (included in the November 2007 submittal) was to better account for the amount of particulate nitrate (NO_3) by limiting the available ammonia when individual unit puffs overlap. The original visibility modeling conducted for the June 2, 2007 BART application did not incorporate repartitioning of available ammonia (MNITRATE = 0). The refinements did not allow each overlapping puff(s) to use the full ammonia background value but instead only a portion of the ammonia available (MNITRATE = 1). This concept is reflected in Section 3.1.2.6 of the WRAP protocol. It is important to note that this refinement noted as nitrate repartitioning is not the ammonia limiting method commonly referred to as ALM.

Ammonia Background Concentration

As described in Section 8.1 of the BART application, the air dispersion modeling analyses presented were conducted in accordance with the *CALMET/CALPUFF Protocol for BART Exemption Screening Analysis for Class I Areas in the Western United States* dated August 15, 2006, (hereinafter referred to as the WRAP Protocol). Specifically, the initial SJGS BART modeling for the June 6, 2007 BART Application was performed using the same high fixed background ammonia level of 1 ppb that was used for the initial modeling performed by WRAP RMC. However, there is limited real-time or historic ambient concentration information for ammonia within the modeling domain and at the individual Class I areas from sources such as CASNET. As a result, there is limited information to use to verify whether the assumed 1 ppb ammonia background concentration is representative. In fact, colder temperatures and limited agriculture activity, among other variables, could limit the amount of ammonia present in the ambient atmosphere, thus limiting the ammonia available to chemically react to form sulfates and nitrates to reduce visibility. Section 3.1.2.6 of WRAP protocol indicates that the 1 ppb value would be initially used and the issue revisited at a later time:

> *Thus, based on the fact that western Class I areas tend to be either more arid or forest land than grassland we proposed to initially use a 1 ppb background ammonia value for the CALPUFF runs. We will then revisit the background ammonia values for the Class I areas for the post processing step and provide the CALPUFF output to the States so they can investigate alternative background ammonia values if desired.*

No additional information from the WRAP regarding refined ammonia background concentrations was available. Therefore, an investigation was undertaken to locate more realistic ammonia background values. The Sithe Global Power, LLC's Desert Rock Energy Facility and the Toquop Energy Project visibility analyses located in the southwestern U.S. used variable monthly background ammonia concentrations. Based on this information, refinements to SJGS's BART modeling (included in the November 2007 and March 2008 submittals) reflected these previously used and approved values. These background ammonia concentrations are presented in Table 1 for reference. These data were based on ammonia background concentrations monitored at several western class I areas.

Table 1
Variable Monthly Ammonia
Background Concentration[1]

Month	Background Ammonia Concentration (ppb)
January	0.2
February	0.2
March	0.2
April	0.5
May	0.5
June	1.0
July	1.0
August	1.0
September	1.0
October	0.5
November	0.5
December	0.5

[1]The ammonia data and supporting information for the values contained in Desert Rock Energy Facility and the Toquop Energy Project visibility analyses were included in detail in Attachment 1 of the March 31, 2008 report submittal.

Additionally, Table 2 contains a monthly summary of actual monthly monitored ammonia data from a long term ammonia air monitoring study in western Wyoming. This monitoring study, located in the Upper Green River Basin of western Wyoming southwest of Bridge Wilderness Area, was initiated in December 2006 by Shell

Exploration & Production Company and continued for 15 months. The findings of this study were presented at the Air & Waste Management Association (AWMA) Aerosol & Atmospheric Optics: Visual Air Quality and Radiation in Moab Utah on May 1, 2008. The extended abstract for this presentation has been included as Attachment 2. As Table 2 illustrates, these monthly mean ammonia values (referenced from Figure 2 of the abstract) have the same monthly trends as the ammonia data used in PNM's previous modeling submittals (November 2007 and March 2008 submittals). This data is representative of another western area similar to that of northwestern New Mexico are much less than those values currently assumed in the PNM modeling. In fact, the annual average ammonia value is 0.24 ppb. This data has been included for illustration purposes only and again reiterates the premise that the 1 ppb constant ammonia value is conservatively high and not representative of actual ammonia in the area of the SJGS.

Table 2
Monitored Variable Monthly Ammonia Background Concentration[1]

Month	Background Ammonia Concentration (ppb)
January	< 0.1
February	< 0.1
March	0.2
April	0.2
May	0.3
June	0.3
July	0.8
August	0.8
September	0.3
October	0.2
November	0.1
December	< 0.1

[1]The Wyoming ammonia data is from the extended abstract presented at the Air & Waste Management Association (AWMA) Aerosol & Atmospheric Optics: Visual Air Quality and Radiation in Moab Utah on May 1, 2008.

Visibility Summary

Based on the aforementioned refinements in background ammonia concentrations and nitrate repartitioning, revised CALPUFF visibility modeling was performed for three

cases; pre-consent decree, consent decree (which represents SJGS's BART baseline scenario), and the SNCR control technology scenario. The modeling summarized in this report is for the SJGS on a plant-wide basis and for each of the four SJGS units on an individual unit basis. It is important to note that all other modeling options as described in the BART application were unchanged. For simplicity, the following results discuss the differences between the consent decree scenario and the SNCR scenario. The visibility modeling results are contained in Attachment 3.

SJGS Visibility Summary with Nitrate Repartitioning and Variable Ammonia

The results of the refined visibility modeling for the SJGS plant, assuming the same SNCR control technology is installed on all four units, are illustrated in Tables 1 through 4 of Attachment 3. These tables summarize the scenarios and the maximum visibility (deciview) impact seen at any of the 16 Class I areas at any time over the 2001 to 2003 period. The results of this analysis, using the aforementioned refinements, indicates a minimal improvement in visibility impact at each of the 16 Class I areas.

The maximum visibility (deciview) improvement seen at any of the 16 Class I areas at any time over the 2001 to 2003 period is illustrated in Table 4 for each scenario. The expected degree of visibility improvement for each control scenario for each unit (on a plant-wide basis) was determined by the difference in the maximum visibility improvement for each receptor at each of the sixteen Class I areas. Again, it is important to note that the control technology associated with the consent decree formulated the SJGS's baseline case, as well as the baseline case for the individual unit analyses described later. Additionally, the cost-effectiveness for the potential BART control technologies from the BART application were used to calculate visibility improvement cost-effectiveness in $/deciview ($/dv). Three major scenarios are shown in the visibility improvement cost effectiveness summary in Table 4:

- Pre-consent decree to consent decree.
- Consent decree to additional SNCR NO_x control technology alternatives scenario.
- Pre-consent decree to additional SNCR NO_x control technology alternatives scenario.

These maximum visibility improvements between the consent decree and the SNCR control scenario range from 0.04 dv to 0.21 dv of expected visibility improvement above the consent decree scenario. The results indicate that adding additional SNCR NO_x control technology beyond the consent decree does not yield visibility improvement greater than 0.5 dv at any Class I area. In fact, as previously noted, the maximum visibility improvement at any of the 16 class I areas is only 0.21 dv which is considered insignificant.

Based on the visibility improvement modeled and the total annual cost evaluated in the impact analysis stage of the BART application document, the cost-effectiveness for visibility improvement (annual cost per improvement in visibility, $/dv), was determined for SJGS over the aforementioned range of visibility improvement. The resulting cost for installation of SNCRs for all four units ranges from $354 million/dv to $75 million/dv.

Attachment 3 contains a SJGS plant-wide summary of the 98th percentile visibility impact for the three modeled technology scenarios (i.e., Pre-Consent Decree, Consent Decree, SNCR scenarios), provides information on the number of days above 0.5 dv threshold, and indicates the contribution of each pollutant associated with the 98th percentile visibility impact for each class I area.

Unit Specific Visibility Summary with Nitrate Repartitioning and Variable Ammonia

The results of the refined visibility modeling for Unit 1, Unit 2, Unit 3, and Unit 4 are illustrated in Tables 5-8, 9-12, 13-16, and 17-20 of Attachment 3, respectively. These tables summarize the scenarios and the maximum visibility (deciview) impact seen at any of the 16 Class I areas at any time over the 2001 to 2003 period. Similar to results seen for the SJGS facility, the visibility impacts at Mesa Verde represent the maximum visibility impact at any of the 16 Class I areas. In addition, this analysis indicates a minimal improvement in visibility impact at each of the 16 Class I areas.

The maximum visibility (deciview) improvement seen at any of the 16 Class I areas at any time over the 2001 to 2003 period is illustrated in Tables 8, 12, 16, and 20. Again, the expected degree of visibility improvement for each control scenario for each unit was determined by the difference in the maximum visibility improvement for each receptor at each of the sixteen Class I areas. Furthermore, the same methodology previously described for the SJGS's cost-effectiveness in ($/dv) was used here for each unit.

These maximum visibility improvements between the consent decree and the SNCR control scenario for each unit are similar to that of the combined SJGS. The visibility improvements are summarized below.

- Unit 1 improvements range from 0.02 dv to 0.16 dv.
- Unit 2 improvements range from 0.02 dv to 0.16 dv
- Unit 3 improvements range from 0.02 dv to 0.15 dv
- Unit 4 improvements range from 0.0 dv to 0.15 dv

The results again indicate that adding additional SNCR NO_x control technology beyond the consent decree does not yield visibility improvement greater than 0.5 dv at any Class I area. Based on the visibility improvement modeled and the total annual cost evaluated in the impact analysis stage of the BART application document, the cost-effectiveness for visibility improvement (annual cost per improvement in visibility, $/dv), was determined for each unit for each Class I area. The resulting cost for installation of SNCRs for each unit is summarized below.

- Unit 1 cost range is $225 million/dv to $21 million/dv.
- Unit 2 cost range is $225 million/dv to $21 million/dv.
- Unit 3 cost range is $287 million/dv to $30million/dv.
- Unit 4 cost range is $2.3 billion/dv[1] to $29 million/dv.

Attachment 3 contains a unit specific summary of the 98th percentile visibility impact for the three modeled technology scenarios (i.e., Pre-Consent Decree, Consent Decree, SNCR scenarios), includes the number of days above 0.5 dv threshold, and indicates the contribution of each pollutant associated with the 98th percentile visibility impact for each class I area.

Visibility Summary with Nitrate Repartitioning and Constant Ammonia

As previously noted, the purpose of this analyses, and the previous November 2007 and March 2008 analyses, was to perform visibility modeling using refined methodologies from those contained in the original BART submittal. However, PNM recognizes that NMED has previously requested additional visibility modeling be conducted using a constant ammonia background value of 1 ppb. While PNM does not believe analyses conducted using the constant ammonia background (1 ppb) is representative, analyses have been conducted based on the aforementioned modeling methodology and described scenarios for both the SJGS plant and individual units. The results of this analysis can be found in Attachment 3, Tables 21-40.

Attachment 3 also contains tables summarizing the modeling results, the summary of the 98th percentile visibility impact for the three modeled technology scenarios (i.e., Pre-Consent Decree, Consent Decree, and SNCR scenarios), and the number of days above 0.5 dv threshold and the contribution of each pollutant associated with the 98th percentile visibility impact for each class I area.

[1] The visibility improvement realized for Unit 4 is 0.002 dv but is illustrated in Attachment 3, Table 20 as 0.00 dv.

Additional Considerations

The minimal visibility improvements discussed in this document for the variable ammonia case (or even the constant ammonia case) do not merit the large capital expenditure required to install SNCR. In addition to the prohibitive cost associated with SNCR, there are other important reasons that LNB, OFA and NN should be considered BART for the SJGS units. First, the LNB, OFA and NN systems being installed to meet the consent decree are state-of-the-art combustion controls. State-of-the-art combustion controls comprising of LNB, OFA and NN technologies were used to form the basis for the BART presumptive limits for NO_x in the BART guidelines. Second, installation of SNCR requires ammonia to reduce NO_x emissions. Specifically, in a SNCR system, ammonia is injected into the boiler. Any unreacted ammonia passes through the boiler and out the stack as ammonia emissions or ammonia slip. This additional ammonia would then be available to add to the ammonia background concentration, chemically react to form nitrates and sulfates, and potentially further increase the visibility impacts at the Class I areas. The additional ammonia slip was not considered in this analysis. Finally, the visibility results imply that visibility is influenced more by the SJGS's sulfur emissions than by the reduction of NO_x. However, sulfur emissions are not subject to BART requirements because New Mexico participates in the WRAP emissions trading program. Therefore, LNB, OFA and NN should be considered BART for NO_x control on the SJGS units.

Conclusion

As noted in this document, PNM's further investigation of additional refinements to the June 2007 BART CALPUFF air dispersion modeling analyses to yield more realistic regional haze impacts was warranted. These analyses included nitrate repartitioning and more realistic ammonia background concentrations based on monitored values at several western Class I areas, as well as, the additional ammonia study from western Wyoming. The conclusion of this study re-iterate and further support the overall findings of the June 2007 that installation of SNCR systems at the SJGS provide minimal visibility improvements and would require significant capital expenditure and modifications that will impact many areas of the plant including boiler draft systems, air heater performance, and ash handling. The results from the analyses further substantiate that the addition of SNCR technology does not yield a benefit nor meet the intended goal of BART. Specifically, these analyses indicate:

- The addition of SNCR technology on a plant-wide or individual unit basis shows less than a 0.5 dv improvement for all Class I areas including the four Class I areas located in New Mexico.
- Both the total annual costs evaluated and the cost-effectiveness ($/dv) are prohibitive given the minimal improvements realized.

Therefore, as previously noted, given the minimal visibility improvement to the class I areas in the BART analysis, the recommended BART control for SJGS is LNB, OFA, and a NN for NO_x control and PJFF for PM control.

Attachment 1

Table 7-1
Impact Analysis and Cost Effectiveness Results of Additional NOx Control Technologies for SJGS

All Feasible Technologies	Emission Performance Level (lb/MBtu)	Expected Emission Rate (lb/h)	Expected Emission Rate (ton/yr)	Expected Emission Reduction (ton/yr)	Total Capital Investment (TCI) (1,000$)	Total Annualized Cost (TAC) (1,000$)	Cost Effectiveness ($/ton)	Incremental Cost Effectiveness ($/ton)	Energy Impacts (1,000$)	Non-Air Impacts (1,000$)
SJGS Unit 1										
Selective Catalytic Reduction (SCR)	0.07	259.5	966	3,174	156,805	20,525	6,466	2,844	1,496	--
SNCR/SCR Hybrid	0.18	667.3	2,484	1,656	104,436	16,207	9,786	15,490	706	1,762
SNCR	0.24	889.7	3,312	828	15,321	3,380	4,082		36	--
SJGS Unit 2										
Selective Catalytic Reduction (SCR)	0.07	258.2	961	3,158	169,251	21,891	6,932	3,457	1,492	--
SNCR/SCR Hybrid	0.18	663.8	2,471	1,648	108,628	16,670	10,117	16,132	346	1,762
SNCR	0.24	885.1	3,295	824	15,321	3,380	4,103		36	--
SJGS Unit 3										
Selective Catalytic Reduction (SCR)	0.07	403.1	1,501	4,931	215,568	28,359	5,752	1,167	2,194	--
SNCR/SCR Hybrid	0.18	1,036.4	3,859	2,572	168,507	25,606	9,954	16,335	507	2,658
SNCR	0.24	1,381.9	5,145	1,286	18,977	4,596	3,573		36	--
SJGS Unit 4										
Selective Catalytic Reduction (SCR)	0.07	395.4	1,472	4,837	199,558	26,592	5,497	753	2,215	--
SNCR/SCR Hybrid	0.18	1,016.8	3,786	2,524	161,572	24,849	9,846	16,050	507	2,658
SNCR	0.24	1,355.8	5,047	1,262	18,977	4,596	3,642		36	--

Notes:

1. All costs are in 2007$.
2. Expected emission rates (ton/yr) calculations were based on 85 percent unit capacity factor (referer to Appendix A Design Basis).
3. Expected emission reduction (ton/yr) calculations were based on the consent decree upgrades control effectiveness as shown in Table 4-1.
4. TCI and TAC are referenced from Appendix C Cost Analysis Summary.
5. Cost-effectiveness ($/ton) is defined as ratio of TAC over Expected Emission Reduction (ton/yr).
6. Expected emission reduction is based on annual emission reduction from consent decree upgrade emission levels (Table 4-1).
7. Incremental cost effectiveness are based on increments in expected emission reduction (ton/yr)

Design Concept Definition

Site Name	San Juan Generating Station	**Units**	1, 2, 3, 4
Client Name	PNM	**Process Technology**	Selective Non-Catalytic Reduction

Process Description	Addition of Selective Non-Catalytic Reduction (SNCR) process into boiler pendant superheat section. Generic SNCR technology considered to represent various vendor specific systems (i.e. FuelTech, Nalco-Mobotec).				
	Pollutant	NO_x (Unit 1)	NO_x (Unit 2)	NO_x (Unit 3)	NO_x (Unit 4)
	Emissions				
	lb/MBtu	0.30	0.30	0.30	0.30
	lb/h	1,112	1,106	1,727	1,695
	Controlled Emissions				
	lb/MBtu	0.24	0.24	0.24	0.24
	lb/h	890	885	1,382	1,356
	Inlet Flow Basis, acfm	2,082,166	2,082,819	3,205,572	3,144,890
	Pressure Drop Added, in. wg	None			
	Coal Source and Type	New Mexico, Subbituminous			
	Capacity Factor	85.0%			
Consumables	Reagent (Urea), lb/h	906	906	1,408	1,408
	Water, gpm	39	39	60	60
	Energy, kW	80	80	80	80
	Maintenance	3% of direct material cost.			
Byproduct	Description	No impact on ash sales.			
	Other	Up to 5 ppm ammonia slip.			

Location of Major Process Equipment	Truck-filled reagent storage tank, reagent circulation unit in enclosure with metering and distribution module, wall-injectors and multi-nozzle lances (MNL) in boiler penetrations.
Inlet/Outlet Connections and Interconnecting Ducts	Dilution water to metering module, atomizing air to injectors and MNL, cooling water for MNL.
Reagent Storage	Reagent tank at grade.
Control System Modifications	SNCR controls interfaced into existing control system.
Fan Modifications	None.
Power Supply/Aux Power Modifications	Minimum impact/modifications.
Enclosures Requirements	Injection equipment enclosed in existing boiler building, enclosure for reagent circulation unit.
Demolition or Relocation Requirements	Penetrations into boiler wall for injectors and MNL, access platforms.
Major Constructability Issues	Routing of SNCR reagent supply lines.
Significant Issues or Challenges	Ammonia slip may cause buildup of ammonium bisulfate on the air heater, which may require more frequent cleaning, air heater modifications included.

Other Assumptions:

- No major impact in plant availability.
- The site has sufficient area available to accommodate construction activities including, but not limited to, offices, laydown, and staging.
- No boiler/duct stiffening included.
- Air heater modifications included in analysis.
- No impact on potential ash sales.
- Reagent is urea solution.

State of Availability	Available.
State of Applicability	Applicable.
Technical Feasibility	Technically feasible. SNCR technology is generic and considered to represent various vendor specific systems (i.e. FuelTech, Nalco-Mobotec).

PNM SJGS BART Analysis - Cost Analysis (Draft)

Technology: Selective Non-Catalytic Reduction - SJGS Unit 1 **Date:** 5/5/2008

Cost Item	$	Remarks/Cost Basis				
CAPITAL COST						
Direct Costs						
Purchased equipment costs						
SNCR system scope:	$4,315,000	From vendor quote (FuelTech)				
Reagent delivery system						
Wall injectors and multiple nozzle lances						
Automatic injector and lance retract system						
Flue gas temperature monitors						
Reagent storage tank	$100,000	B&V cost estimate				
NOx monitoring system	$220,000	B&V cost estimate				
Electrical system upgrades	$189,000	B&V cost estimate				
Instrumentation and control system	$279,000	B&V cost estimate				
Subtotal capital cost (CC)	$5,103,000					
Gross Receipt Tax	$315,748	(CC) X	6.2%			
Freight	$255,150	(CC) X	5.0%			
Total purchased equipment cost (PEC)	$5,674,000					
Direct installation costs						
Foundation & supports	$567,000	(PEC) X	10.0%			
Handling & erection	$1,702,000	(PEC) X	30.0%			
Electrical	$567,000	(PEC) X	10.0%			
Piping	$142,000	(PEC) X	2.5%			
Insulation	$0	(PEC) X	0.0%			
Painting	$0	(PEC) X	0.0%			
Demolition	$284,000	(PEC) X	5.0%			
Relocation	$113,000	(PEC) X	2.0%			
Total direct installation costs (DIC)	$3,375,000					
Air preheater modifications	$1,071,000	B&V cost estimate				
Site preparation	$0	N/A				
Buildings	$0	N/A				
Total direct costs (DC) = (PEC) + (DIC)	$10,120,000					
Indirect Costs						
Engineering	$708,000	(DC) X	7.0%			
Owner's cost	$506,000	(DC) X	5.0%			
Construction management	$1,012,000	(DC) X	10.0%			
Start-up and spare parts	$304,000	(DC) X	3.0%			
Performance test	$100,000	(DC) X	Engineering estimate			
Contingencies	$2,024,000	(DC) X	20.0%			
Total indirect costs (IC)	$4,654,000					
Interest During Construction (IDC)	$547,000	[(DC)+(IC)] X	7.41%	1	years (project time length X 1/2)	
Total Capital Investment (TCI) = (DC) + (IC) + (IDC)	**$15,321,000**					
ANNUAL COST						
Direct Annual Costs						
Fixed annual costs						
Operating labor	$125,000	1	FTE and	124,862	$/year	Estimated manpower level
Maintenance labor and materials	$304,000	(DC) X	3.0%			
Total fixed annual costs	$429,000					
Variable annual costs						
Reagent	$1,417,000	906	lb/hr and	420	$/ton	Engineering estimate
Auxiliary and ID fan power	$36,000	80	kW and	0.061	$/kWh	Estimate in vendor quote
Water	$6,000	39	gpm and	0.33	$/1,000 gal	Engineering estimate
Total variable annual costs	$1,459,000					
Total direct annual costs (DAC)	$1,888,000					
Indirect Annual Costs						
Cost for capital recovery	$1,492,000	(TCI) X	9.74%	CRF at 7.41% interest & 20 year life		
Total indirect annual costs (IDAC)	$1,492,000					
Total Annual Cost (TAC) = (DAC) + (IDAC)	**$3,380,000**					

PNM SJGS BART Analysis - Cost Analysis (Draft)

Technology: Selective Non-Catalytic Reduction - SJGS Unit 2 **Date:** 5/5/2008

Cost Item	$	Remarks/Cost Basis				
CAPITAL COST						
Direct Costs						
Purchased equipment costs						
SNCR system scope:	$4,315,000	From vendor quote (FuelTech)				
Reagent delivery system						
Wall injectors and multiple nozzle lances						
Automatic injector and lance retract system						
Flue gas temperature monitors						
Reagent storage tank	$100,000	B&V cost estimate				
NOx monitoring system	$220,000	B&V cost estimate				
Electrical system upgrades	$189,000	B&V cost estimate				
Instrumentation and control system	$279,000	B&V cost estimate				
Subtotal capital cost (CC)	$5,103,000					
Gross Receipt Tax	$315,748	(CC) X	6.2%			
Freight	$255,150	(CC) X	5.0%			
Total purchased equipment cost (PEC)	$5,674,000					
Direct installation costs						
Foundation & supports	$567,000	(PEC) X	10.0%			
Handling & erection	$1,702,000	(PEC) X	30.0%			
Electrical	$567,000	(PEC) X	10.0%			
Piping	$142,000	(PEC) X	2.5%			
Insulation	$0	(PEC) X	0.0%			
Painting	$0	(PEC) X	0.0%			
Demolition	$284,000	(PEC) X	5.0%			
Relocation	$113,000	(PEC) X	2.0%			
Total direct installation costs (DIC)	$3,375,000					
Air preheater modifications	$1,071,000	B&V cost estimate				
Site preparation	$0	N/A				
Buildings	$0	N/A				
Total direct costs (DC) = (PEC) + (DIC)	$10,120,000					
Indirect Costs						
Engineering	$708,000	(DC) X	7.0%			
Owner's cost	$506,000	(DC) X	5.0%			
Construction management	$1,012,000	(DC) X	10.0%			
Start-up and spare parts	$304,000	(DC) X	3.0%			
Performance test	$100,000	(DC) X	Engineering estimate			
Contingencies	$2,024,000	(DC) X	20.0%			
Total indirect costs (IC)	$4,654,000					
Interest During Construction (IDC)	$547,000	[(DC)+(IC)] X	7.41%		1	years (project time length X 1/2)
Total Capital Investment (TCI) = (DC) + (IC) + (IDC)	**$15,321,000**					
ANNUAL COST						
Direct Annual Costs						
Fixed annual costs						
Operating labor	$125,000		1	FTE and	124,862 $/year	Estimated manpower level
Maintenance labor and materials	$304,000	(DC) X	3.0%			
Total fixed annual costs	$429,000					
Variable annual costs						
Reagent	$1,417,000		906	lb/hr and	420 $/ton	Engineering estimate
Auxiliary and ID fan power	$36,000		80	kW and	0.061 $/kWh	Estimate in vendor quote
Water	$6,000		39	gpm and	0.33 $/1,000 gal	Engineering estimate
Total variable annual costs	$1,459,000					
Total direct annual costs (DAC)	$1,888,000					
Indirect Annual Costs						
Cost for capital recovery	$1,492,000	(TCI) X	9.74%	CRF at 7.41% interest & 20 year life		
Total indirect annual costs (IDAC)	$1,492,000					
Total Annual Cost (TAC) = (DAC) + (IDAC)	**$3,380,000**					

PNM SJGS BART Analysis - Cost Analysis (Draft)

Technology: Selective Non-Catalytic Reduction - SJGS Unit 3 **Date:** 5/5/2008

Cost Item	$	Remarks/Cost Basis				
CAPITAL COST						
Direct Costs						
Purchased equipment costs						
SNCR system scope:	$5,619,000	From vendor quote (FuelTech)				
Reagent delivery system						
Wall injectors and multiple nozzle lances						
Automatic injector and lance retract system						
Flue gas temperature monitors						
Reagent storage tank	$100,000	B&V cost estimate				
NOx monitoring system	$220,000	B&V cost estimate				
Electrical system upgrades	$242,000	B&V cost estimate				
Instrumentation and control system	$291,000	B&V cost estimate				
Subtotal capital cost (CC)	$6,472,000					
Gross Receipt Tax	$400,455	(CC) X	6.2%			
Freight	$323,600	(CC) X	5.0%			
Total purchased equipment cost (PEC)	$7,196,000					
Direct installation costs						
Foundation & supports	$720,000	(PEC) X	10.0%			
Handling & erection	$2,159,000	(PEC) X	30.0%			
Electrical	$720,000	(PEC) X	10.0%			
Piping	$180,000	(PEC) X	2.5%			
Insulation	$0	(PEC) X	0.0%			
Painting	$0	(PEC) X	0.0%			
Demolition	$360,000	(PEC) X	5.0%			
Relocation	$144,000	(PEC) X	2.0%			
Total direct installation costs (DIC)	$4,283,000					
Air preheater modifications	$1,071,000	B&V cost estimate				
Site preparation	$0	N/A				
Buildings	$0	N/A				
Total direct costs (DC) = (PEC) + (DIC)	$12,550,000					
Indirect Costs						
Engineering	$879,000	(DC) X	7.0%			
Owner's cost	$628,000	(DC) X	5.0%			
Construction management	$1,255,000	(DC) X	10.0%			
Start-up and spare parts	$377,000	(DC) X	3.0%			
Performance test	$100,000	(DC) X	Engineering estimate			
Contingencies	$2,510,000	(DC) X	20.0%			
Total indirect costs (IC)	$5,749,000					
Interest During Construction (IDC)	$678,000	[(DC)+(IC)] X	7.41%	1	years (project time length X 1/2)	
Total Capital Investment (TCI) = (DC) + (IC) + (IDC)	**$18,977,000**					
ANNUAL COST						
Direct Annual Costs						
Fixed annual costs						
Operating labor	$125,000	1	FTE and	124,862	$/year	Estimated manpower level
Maintenance labor and materials	$377,000	(DC) X	3.0%			
Total fixed annual costs	$502,000					
Variable annual costs						
Reagent	$2,201,000	1,408	lb/hr and	420	$/ton	Engineering estimate
Auxiliary and ID fan power	$36,000	80	kW and	0.061	$/kWh	Estimate in vendor quote
Water	$9,000	60	gpm and	0.33	$/1,000 gal	Engineering estimate
Total variable annual costs	$2,246,000					
Total direct annual costs (DAC)	$2,748,000					
Indirect Annual Costs						
Cost for capital recovery	$1,848,000	(TCI) X	9.74%	CRF at 7.41% interest & 20 year life		
Total indirect annual costs (IDAC)	$1,848,000					
Total Annual Cost (TAC) = (DAC) + (IDAC)	**$4,596,000**					

PNM SJGS BART Analysis - Cost Analysis (Draft)

Technology: Selective Non-Catalytic Reduction - SJGS Unit 4 **Date:** 5/5/2008

Cost Item	$	Remarks/Cost Basis				
CAPITAL COST						
Direct Costs						
Purchased equipment costs						
SNCR system scope:	$5,619,000	From vendor quote (FuelTech)				
Reagent delivery system						
Wall injectors and multiple nozzle lances						
Automatic injector and lance retract system						
Flue gas temperature monitors						
Reagent storage tank	$100,000	B&V cost estimate				
NOx monitoring system	$220,000	B&V cost estimate				
Electrical system upgrades	$242,000	B&V cost estimate				
Instrumentation and control system	$291,000	B&V cost estimate				
Subtotal capital cost (CC)	$6,472,000					
Gross Receipt Tax	$400,455	(CC) X	6.2%			
Freight	$323,600	(CC) X	5.0%			
Total purchased equipment cost (PEC)	$7,196,000					
Direct installation costs						
Foundation & supports	$720,000	(PEC) X	10.0%			
Handling & erection	$2,159,000	(PEC) X	30.0%			
Electrical	$720,000	(PEC) X	10.0%			
Piping	$180,000	(PEC) X	2.5%			
Insulation	$0	(PEC) X	0.0%			
Painting	$0	(PEC) X	0.0%			
Demolition	$360,000	(PEC) X	5.0%			
Relocation	$144,000	(PEC) X	2.0%			
Total direct installation costs (DIC)	$4,283,000					
Air preheater modifications	$1,071,000	B&V cost estimate				
Site preparation	$0	N/A				
Buildings	$0	N/A				
Total direct costs (DC) = (PEC) + (DIC)	$12,550,000					
Indirect Costs						
Engineering	$879,000	(DC) X	7.0%			
Owner's cost	$628,000	(DC) X	5.0%			
Construction management	$1,255,000	(DC) X	10.0%			
Start-up and spare parts	$377,000	(DC) X	3.0%			
Performance test	$100,000	(DC) X	Engineering estimate			
Contingencies	$2,510,000	(DC) X	20.0%			
Total indirect costs (IC)	$5,749,000					
Interest During Construction (IDC)	$678,000	[(DC)+(IC)] X	7.41%	1	years (project time length X 1/2)	
Total Capital Investment (TCI) = (DC) + (IC) + (IDC)	**$18,977,000**					
ANNUAL COST						
Direct Annual Costs						
Fixed annual costs						
Operating labor	$125,000	1	FTE and	124,862	$/year	Estimated manpower level
Maintenance labor and materials	$377,000	(DC) X	3.0%			
Total fixed annual costs	$502,000					
Variable annual costs						
Reagent	$2,201,000	1,408	lb/hr and	420	$/ton	Engineering estimate
Auxiliary and ID fan power	$36,000	80	kW and	0.061	$/kWh	Estimate in vendor quote
Water	$9,000	60	gpm and	0.33	$/1,000 gal	Engineering estimate
Total variable annual costs	$2,246,000					
Total direct annual costs (DAC)	$2,748,000					
Indirect Annual Costs						
Cost for capital recovery	$1,848,000	(TCI) X	9.74%	CRF at 7.41% interest & 20 year life		
Total indirect annual costs (IDAC)	$1,848,000					
Total Annual Cost (TAC) = (DAC) + (IDAC)	**$4,596,000**					

Attachment 2

NH_3 Monitoring in the Upper Green River Basin, Wyoming

Extended Abstract #70

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INTRODUCTION

A long term ammonia air monitoring study was initiated in December, 2006 at Boulder, Wyoming, by Shell Exploration & Production Company. The monitoring site is located in the Upper Green River Basin of western Wyoming southwest of the Bridger Wilderness, a Class I area with an IMPROVE monitoring site. This region is experiencing rapid development of natural gas resources with possible consequences of air quality and visibility impacts in the Bridger Wilderness. Only very limited short-term ammonia measurements were previously available for this region. Thus, the primary objective of this study is to characterize the local airborne nitrogen budget and, specifically, ammonia concentrations and concentrations of related gases and particles in the basin for at least one year. Gaseous and particulate samples were collected twice per week (integrated 3-day and 4-day samples) beginning December 15, 2006 and will continue through May, 2008. Samples were collected using coated annular denuders and stacked filters in a University Research Glassworks (URG) sampler. The Colorado State University Atmospheric Science Department provided laboratory-prepared sample media and laboratory analysis for gas and particle concentrations. Standard operating procedures, technical instructions, and a QAPP for instrument installation, operation and maintenance, field sampling, filter handling, and laboratory analyses were developed and submitted to Wyoming Department of Environmental Quality – Air Quality Division.

MONITORING AND LABORATORY PROCEDURES

Table 1 lists the instrumentation used and parameters monitored for the Boulder station ammonia study. Scheduled denuder and filter changes were performed twice per week, providing three- to four-day integrated samples for the duration of the study period. Ammonia concentrations and the concentrations of related gases and particles were measured using coated annular denuders and stacked filters in a University Research Glassworks (URG) sampler. The Colorado State University Atmospheric Science Department provided laboratory-prepared sample media and laboratory analysis for gas and particle concentrations. The two-channel sampler operated continuously, the air flow being controlled by a programmable pump with a mass flow sensor, and subsequent volumetric gas flow meters. The sampling method requires that metered air is drawn through a $PM_{2.5}$ size selective cyclone inlet, then through a series of annular denuders and filters. The denuders are coated with an acid-based substrate to collect ammonia gas. A second denuder is coated with NaCl to collect gaseous nitric acid. A subsequent stack of two filters is utilized to collect particles. A nylon filter collects particles, and a second, acid-coated filter collects any ammonia volatilized from collected, semi-volatile ammonium nitrate particles. The nylon filter retains any nitric acid volatilized from particulate ammonium nitrate. Following field exposure, the denuders, filters, and field data logs are sent to the CSU lab for chemical extraction and analysis. Total sampler air volume from the data sheet is then used to calculate concentrations.

Table 1: Instrumentation and Monitored Parameters Boulder, Wyoming Air Quality Station

Component	Instrumentation	Height	Frequency	Parameters
GASEOUS	URG denuders	1.5m	3-day and 4-day integrated samples	Ammonia, NH_3 Nitric Acid, HNO_3
PARTICULATE	URG stacked filters	1.5m	3-day and 4-day integrated samples	Ammonium, NH_4^+ Nitrate, NO_3^- Sulfate, SO_4^{2-}

RESULTS

Figure 1 shows a timeline of gaseous and particulate concentrations from December, 2006 – January, 2008. Figure 2 plots the monthly mean, standard deviation, minimum, and maximum NH_3 concentrations. NH_3 concentrations are below 1 ppbv for most of the monitoring period, peaking in August, 2007 at 1.55 ppbv. Elevated NH_3 concentrations here coincide with warmer summer months. A shift in ammonium nitrate equilibrium toward the gas phase might be responsible for some of this increase, although an increase in total reduced nitrogen (ammonium + ammonia) during the summer suggests that changes in emissions and or transport patterns are likely also important contributors.

Figure 1: Timeline of measured concentrations.

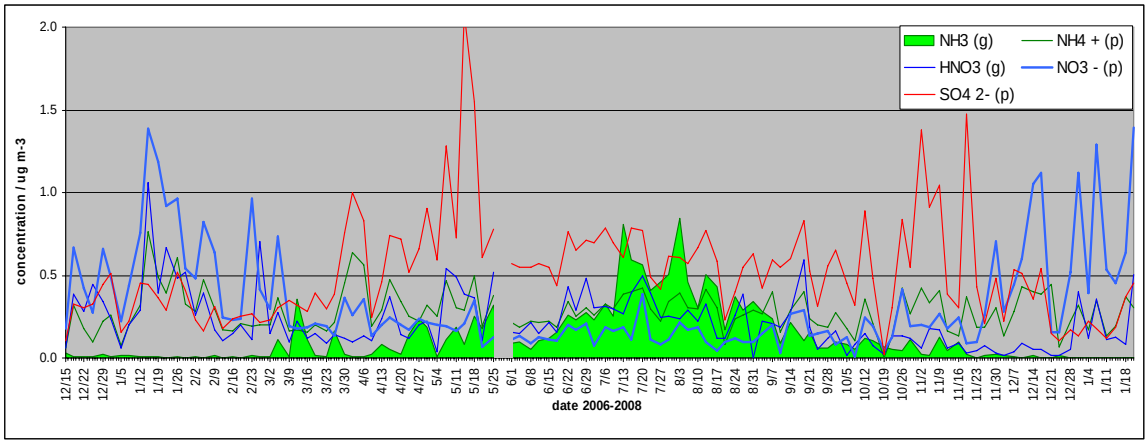
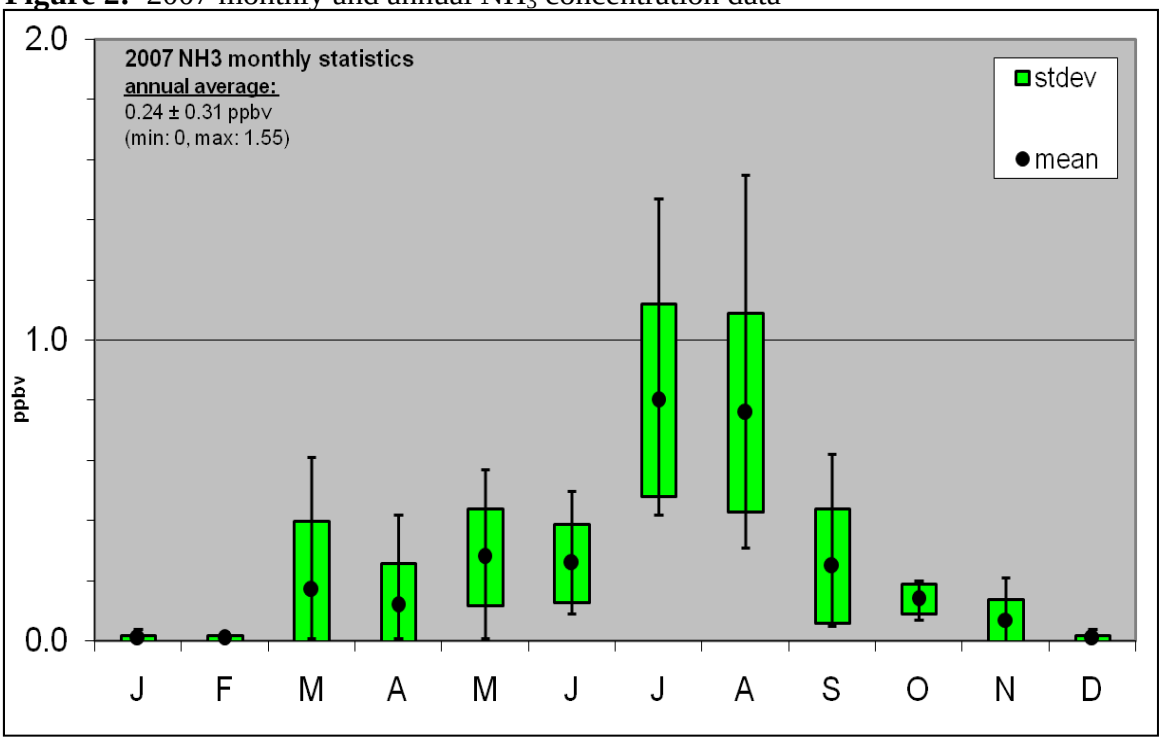


Figure 2: 2007 monthly and annual NH_3 concentration data

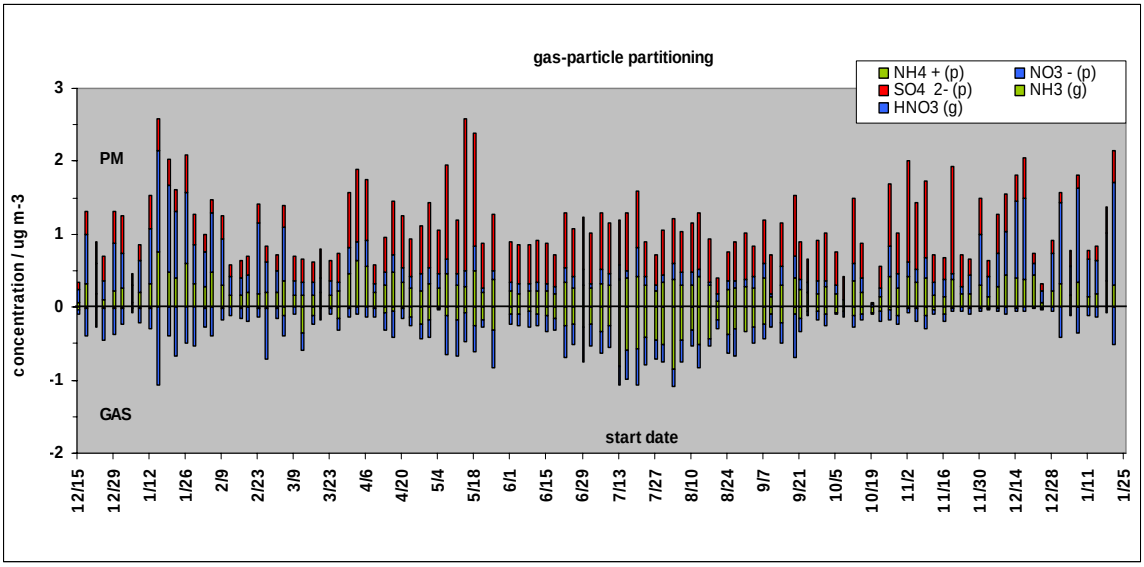


Three events stand out: high particulate NO_3^- in January, 2007; high particulate NO_3^- in December, 2007 – January, 2008; and high particulate SO_4^{-2} in May, 2007. The winter nitrate events are interesting as all reduced nitrogen is present as particle phase ammonium while considerable nitric acid remains in the gas phase. Sufficient increases in ammonia emissions during this period could have substantially increased $PM_{2.5}$ concentrations by further ammonium nitrate formation.

Figure 3 displays a timeline of the gas/particle partitioning of the measured species for the same time period. Particulate sulfate (red) dominates throughout most of the year. Reduced nitrogen (green bars) shows an increased partitioning into the gas phase

(ammonium to ammonia). Increased particulate nitrate in late winter is consistent with thermodynamic expectations: ammonium nitrate formation is favored at lower temperatures and higher relative humidities.

Figure 3: Timeline of gas-particle partitioning. Concentrations in $\mu g/m^3$, top bar stack for particles, bottom bar stack for gases.



RESIDENCE TIME ANALYSIS

Ammonia weighted back trajectories were used to identify the geographic source areas most likely to contribute to the highest measured ammonia days. Back trajectory analyses use interpolated measured or modeled meteorological fields to estimate the most likely central path over geographical areas that provided air to a receptor at a given time. The method essentially follows a parcel of air backward in hourly steps for a specified length of time. Back trajectories account for the impact of wind direction and wind speed on delivery of emissions to the receptor, but do not account for chemical transformation, dispersion and deposition of emissions.

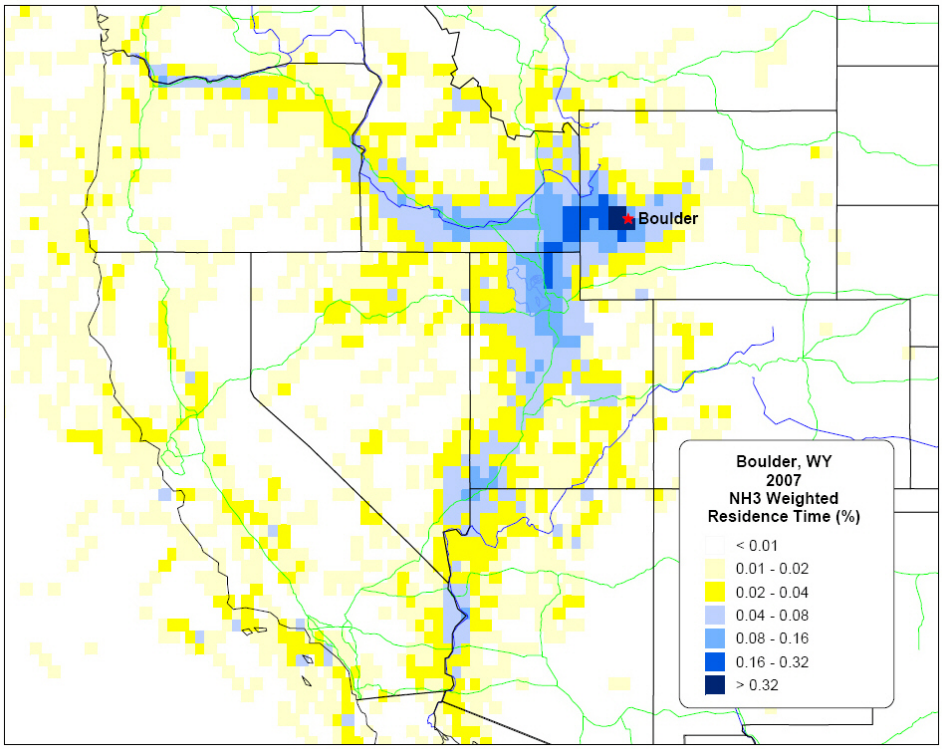
Trajectories were generated using the Hybrid-Single Particle Lagrangian Integrated Trajectory (HYSPLIT) model developed by the National Oceanic and Atmospheric Administration's (NOAA) Air Resources Laboratory (ARL). Detailed information regarding the trajectory model and these data sets can be found on NOAA's Web site (http://www.arl.noaa.gov/ready/hysplit4.html).

Three back trajectories were generated per day, including end times of 0400, 1200 and 2000 MST and end heights of 100 m. Each hourly point along a 72-hour back trajectory paths was weighted with measured ammonia concentration corresponding to the end date of each trajectory. The ammonia values associated with each hourly point were then summed and normalized into 1/4 degree horizontal grid cells of latitude and longitude.

Figure 4 presents a map of the ammonia weighted residence time for 2007. One path of influence follows the Snake River from Idaho to the Columbia River. This is a significant

agriculture region. Another distinct path is from the South-Southwest along I-15 to Nevada then along the Colorado River. In addition to the major urban areas of Salt Lake City and Las Vegas, this pathway includes the agriculture regions of Star Valley north of Salt Lake City, the Wasatch front in Utah, and the Colorado River Basin.

Figure 4: NH_3 weighted residence time analysis for 2007.



SUMMARY

A 15 month study in the Upper Green River Basin of Wyoming measuring ammonia and nitric acid gasses and ammonium, nitrate, and sulfate particles has been completed. The results of the study show that in the Upper Green River Basin of Wyoming 2007 ammonia concentrations are (1) quite variable throughout the year, (2) are below or near detectable limits from December through late February, (3) peak in August at 1.55 ppbv, and (4) have a yearly mean value of 0.24 ppbv. NH_3 weighted Residence time analysis indicates that much of the NH_3 present is transported into the region from agriculture and urban areas to the West and Southwest.

Attachment 3

Table 1
SJGS Pre-Consent Decree Modeling Results
Variable Ammonia Background and Nitrate Repartitioning
98th Percentile Impact for Each Year (dv)

Class I Area	2001	2002	2003	Average	Maximum
Arches	1.92	1.76	1.82	1.83	1.92
Bandelier	1.31	1.86	1.51	1.56	1.86
Black Canyon	1.14	1.34	1.40	1.29	1.40
Canyonlands	2.59	2.04	2.00	2.21	2.59
Capitol Reef	1.97	1.16	1.34	1.49	1.97
Grand Canyon	1.14	0.93	0.81	0.96	1.14
Great Sand Dunes	0.85	1.00	0.82	0.89	1.00
La Garita	1.15	1.30	1.14	1.20	1.30
Maroon Bells	0.67	0.78	0.63	0.70	0.78
Mesa Verde	4.20	4.09	4.85	4.38	4.85
Pecos	1.40	1.33	1.26	1.33	1.40
Petrified Forest	1.13	0.79	0.74	0.88	1.13
San Pedro	1.78	2.37	1.96	2.04	2.37
West Elk	0.99	1.15	0.94	1.03	1.15
Weminuche	1.51	1.85	1.69	1.69	1.85
Wheeler Peak	1.00	0.95	1.05	1.00	1.05
Overall				**1.53**	**4.85**

Table 2 Baseline (Consent Decree) Visibility Modeling Results SJGS Variable Ammonia Background and Nitrate Repartitioning 98th Percentile for Each Year (dv)					
Class I Area	2001	2002	2003	Average	Maximum
Arches	1.69	1.65	1.49	1.61	1.69
Bandelier	1.04	1.56	1.20	1.27	1.56
Black Canyon	0.95	1.15	1.07	1.05	1.15
Canyonlands	2.26	1.73	1.68	1.89	2.26
Capitol Reef	1.81	0.82	1.05	1.23	1.81
Grand Canyon	0.97	0.76	0.57	0.77	0.97
Great Sand Dunes	0.63	0.71	0.64	0.66	0.71
La Garita	0.86	0.94	0.90	0.90	0.94
Maroon Bells	0.54	0.56	0.51	0.54	0.56
Mesa Verde	3.38	3.53	3.80	3.57	3.80
Pecos	1.05	1.09	1.00	1.05	1.09
Petrified Forest	0.82	0.60	0.53	0.65	0.82
San Pedro	1.40	2.01	1.56	1.66	2.01
West Elk	0.80	0.91	0.83	0.85	0.91
Weminuche	1.15	1.48	1.34	1.33	1.48
Wheeler Peak	0.75	0.86	0.89	0.83	0.89
Overall				**1.24**	**3.80**

Table 3 SNCR Visibility Modeling Results Variable Ammonia Background and Nitrate Repartitioning 98th Percentile Impact for Each Year (dv)					
Class I Area	2001	2002	2003	Average	Maximum
Arches	1.61	1.50	1.27	1.46	1.61
Bandelier	0.92	1.37	1.15	1.14	1.37
Black Canyon	0.84	1.00	0.97	0.94	1.00
Canyonlands	2.15	1.61	1.61	1.79	2.15
Capitol Reef	1.64	0.72	1.00	1.12	1.64
Grand Canyon	0.85	0.65	0.57	0.69	0.85
Great Sand Dunes	0.58	0.62	0.52	0.57	0.62
La Garita	0.76	0.80	0.78	0.78	0.80
Maroon Bells	0.51	0.48	0.44	0.48	0.51
Mesa Verde	3.36	3.22	3.58	3.38	3.58
Pecos	0.90	0.94	0.91	0.91	0.94
Petrified Forest	0.77	0.54	0.50	0.61	0.77
San Pedro	1.31	1.80	1.48	1.53	1.80
West Elk	0.74	0.77	0.71	0.74	0.77
Weminuche	1.03	1.35	1.16	1.18	1.35
Wheeler Peak	0.68	0.77	0.75	0.74	0.77
Overall				**1.13**	**3.58**

Table 4
SJGS Visibility Improvement Cost Effectiveness for Each Class 1 Area (Based on Maximum Visibility Modeling Results)
Variable Ammonia Background and Nitrate Repartitioning

	Maximum Visibility Modeling Results (dv) (98th Percentile, see Note 1)			Visibility Improvements (dv) Calculated from Maximum Visibility Results (for each Class 1 Area)			Improvement ($/dv) (see Note 4)		
Class 1 Area	Pre-Consent Decree	Consent Decree	SNCR	Pre-Consent Decree to Consent Decree	Consent Decree to SNCR	Pre-Consent Decree to SNCR	Pre-Consent Decree to Consent Decree	Consent Decree to SNCR	Pre-Consent Decree to SNCR
Arches	1.92	1.69	1.61	0.23	0.08	0.31	224,751,092	207,168,831	220,326,797
Bandelier	1.86	1.56	1.37	0.31	0.19	0.50	167,648,208	83,957,895	135,653,924
Black Canyon	1.40	1.15	1.00	0.26	0.15	0.41	201,835,294	105,642,384	166,059,113
Canyonlands	2.59	2.26	2.15	0.33	0.12	0.44	158,363,077	136,341,880	152,533,937
Capitol Reef	1.97	1.81	1.64	0.16	0.17	0.33	319,677,019	93,835,294	203,685,801
Grand Canyon	1.14	0.97	0.85	0.17	0.12	0.29	304,544,379	135,186,441	234,912,892
Great Sand Dunes	1.00	0.71	0.62	0.29	0.09	0.38	179,331,010	181,272,727	179,786,667
La Garita	1.30	0.94	0.80	0.36	0.14	0.50	142,966,667	113,942,857	134,840,000
Maroon Bells	0.78	0.56	0.51	0.22	0.05	0.27	236,091,743	295,407,407	247,867,647
Mesa Verde	4.85	3.80	3.58	1.06	0.21	1.27	48,692,526	74,542,056	53,044,847
Pecos	1.40	1.09	0.94	0.31	0.16	0.46	168,196,078	100,962,025	145,301,724
Petrified Forest	1.13	0.82	0.77	0.31	0.04	0.36	165,491,961	354,488,889	189,382,022
San Pedro	2.37	2.01	1.80	0.36	0.21	0.57	142,966,667	75,245,283	117,867,133
West Elk	1.15	0.91	0.77	0.24	0.14	0.38	216,252,101	112,338,028	177,421,053
Weminuche	1.85	1.48	1.35	0.37	0.13	0.50	138,727,763	119,939,850	133,769,841
Wheeler Peak	1.05	0.89	0.77	0.16	0.13	0.29	323,698,113	126,603,175	236,561,404

Notes:

1. Maximum of 2001, 2002 and 2003 visibility data.
2. NI = No Improvement
3. NA = Not Applicable
4. Total Annualized Costs used in calculating Improvement are as follows (in $1,000):

Pre-Consent Decree to Consent Decree	$51,468
Consent Decree to SNCR	$15,952
Pre-Consent Decree to SNCR	$67,420

Table 5
Pre-Consent Decree Modeling Results - Unit 1
Variable Ammonia Background and Nitrate Repartitioning
98th Percentile Impact for Each Year (dv)

Class I Area	2001	2002	2003	Average	Maximum
Arches	0.82	0.68	0.60	0.70	0.82
Bandelier	0.31	0.49	0.54	0.45	0.54
Black Canyon	0.35	0.37	0.38	0.37	0.38
Canyonlands	1.10	0.84	0.71	0.88	1.10
Capitol Reef	0.76	0.23	0.32	0.44	0.76
Grand Canyon	0.31	0.21	0.16	0.23	0.31
Great Sand Dunes	0.18	0.20	0.17	0.18	0.20
La Garita	0.26	0.28	0.29	0.28	0.29
Maroon Bells	0.18	0.16	0.16	0.17	0.18
Mesa Verde	1.51	1.79	1.67	1.66	1.79
Pecos	0.29	0.31	0.35	0.32	0.35
Petrified Forest	0.25	0.16	0.14	0.18	0.25
San Pedro	0.61	0.73	0.63	0.66	0.73
West Elk	0.27	0.28	0.25	0.27	0.28
Weminuche	0.37	0.54	0.45	0.45	0.54
Wheeler Peak	0.24	0.25	0.26	0.25	0.26
Overall				**0.47**	**1.79**

Table 6 Baseline (Consent Decree) Visibility Modeling Results - Unit 1 Variable Ammonia Background and Nitrate Repartitioning 98th Percentile for Each Year (dv)					
Class I Area	2001	2002	2003	Average	Maximum
Arches	0.69	0.54	0.52	0.58	0.69
Bandelier	0.24	0.40	0.37	0.34	0.40
Black Canyon	0.29	0.29	0.28	0.29	0.29
Canyonlands	1.00	0.65	0.57	0.74	1.00
Capitol Reef	0.57	0.18	0.23	0.33	0.57
Grand Canyon	0.27	0.16	0.12	0.18	0.27
Great Sand Dunes	0.14	0.14	0.14	0.14	0.14
La Garita	0.19	0.21	0.21	0.20	0.21
Maroon Bells	0.14	0.12	0.11	0.12	0.14
Mesa Verde	1.35	1.40	1.27	1.34	1.40
Pecos	0.23	0.24	0.27	0.25	0.27
Petrified Forest	0.19	0.13	0.11	0.14	0.19
San Pedro	0.44	0.59	0.50	0.51	0.59
West Elk	0.22	0.20	0.20	0.21	0.22
Weminuche	0.31	0.43	0.35	0.36	0.43
Wheeler Peak	0.19	0.17	0.20	0.19	0.20
Overall				**0.37**	**1.40**

Table 7 SNCR Visibility Modeling Results - Unit 1 Variable Ammonia Background and Nitrate Repartitioning 98th Percentile Impact for Each Year (dv)					
Class I Area	2001	2002	2003	Average	Maximum
Arches	0.58	0.44	0.45	0.49	0.58
Bandelier	0.20	0.33	0.30	0.28	0.33
Black Canyon	0.23	0.23	0.23	0.23	0.23
Canyonlands	0.87	0.53	0.49	0.63	0.87
Capitol Reef	0.46	0.15	0.21	0.27	0.46
Grand Canyon	0.22	0.14	0.12	0.16	0.22
Great Sand Dunes	0.12	0.13	0.12	0.12	0.13
La Garita	0.16	0.17	0.17	0.17	0.17
Maroon Bells	0.11	0.10	0.09	0.10	0.11
Mesa Verde	1.19	1.24	1.13	1.19	1.24
Pecos	0.19	0.21	0.23	0.21	0.23
Petrified Forest	0.17	0.11	0.10	0.13	0.17
San Pedro	0.36	0.48	0.43	0.42	0.48
West Elk	0.18	0.16	0.17	0.17	0.18
Weminuche	0.25	0.36	0.30	0.31	0.36
Wheeler Peak	0.16	0.14	0.18	0.16	0.18
Overall				**0.31**	**1.24**

Table 8
Unit 1 Visibility Improvement Cost Effectiveness for Each Class 1 Area (Based on Maximum Visibility Modeling Results)
Variable Ammonia Background and Nitrate Repartitioning

	Maximum Visibility Modeling Results (dv) (98th Percentile, see Note 1)			Visibility Improvements (dv) Calculated from Maximum Visibility Results (for each Class 1 Area)			Improvement ($/dv) (see Note 4)		
Class 1 Area	Pre-Consent Decree	Consent Decree	SNCR	Pre-Consent Decree to Consent Decree	Consent Decree to SNCR	Pre-Consent Decree to SNCR	Pre-Consent Decree to Consent Decree	Consent Decree to SNCR	Pre-Consent Decree to SNCR
Arches	0.82	0.69	0.58	0.13	0.11	0.24	91,146,154	29,649,123	62,413,934
Bandelier	0.54	0.40	0.33	0.14	0.07	0.21	84,635,714	46,301,370	71,497,653
Black Canyon	0.38	0.29	0.23	0.09	0.06	0.15	131,655,556	55,409,836	100,854,305
Canyonlands	1.10	1.00	0.87	0.10	0.13	0.23	118,490,000	26,000,000	66,213,043
Capitol Reef	0.76	0.57	0.46	0.19	0.11	0.30	62,363,158	30,727,273	50,763,333
Grand Canyon	0.31	0.27	0.22	0.04	0.05	0.09	296,225,000	66,274,510	167,351,648
Great Sand Dunes	0.20	0.14	0.13	0.06	0.02	0.08	197,483,333	225,333,333	203,053,333
La Garita	0.29	0.21	0.17	0.08	0.04	0.12	148,112,500	93,888,889	131,284,483
Maroon Bells	0.18	0.14	0.11	0.04	0.03	0.07	296,225,000	120,714,286	223,955,882
Mesa Verde	1.79	1.40	1.24	0.39	0.16	0.55	30,382,051	21,257,862	27,739,526
Pecos	0.35	0.27	0.23	0.08	0.04	0.12	148,112,500	93,888,889	131,284,483
Petrified Forest	0.25	0.19	0.17	0.06	0.02	0.08	197,483,333	140,833,333	181,297,619
San Pedro	0.73	0.59	0.48	0.14	0.11	0.25	84,635,714	29,911,504	60,193,676
West Elk	0.28	0.22	0.18	0.06	0.04	0.10	197,483,333	88,947,368	155,397,959
Weminuche	0.54	0.43	0.36	0.11	0.07	0.18	107,718,182	51,212,121	86,528,409
Wheeler Peak	0.26	0.20	0.18	0.06	0.03	0.09	197,483,333	135,200,000	179,164,706

Notes:

1. Maximum of 2001, 2002 and 2003 visibility data.
2. NI = No Improvement
3. NA = Not Applicable
4. Total Annualized Costs used in calculating Improvement are as follows (in $1,000):

Pre-Consent Decree to Consent Decree	$11,849
Consent Decree to SNCR	$3,380
Pre-Consent Decree to SNCR	$15,229

Table 9
Pre-Consent Decree Modeling Results - Unit 2
Variable Ammonia Background and Nitrate Repartitioning
98th Percentile Impact for Each Year (dv)

Class I Area	2001	2002	2003	Average	Maximum
Arches	0.83	0.64	0.58	0.68	0.83
Bandelier	0.32	0.50	0.54	0.45	0.54
Black Canyon	0.36	0.37	0.39	0.37	0.39
Canyonlands	1.07	0.83	0.72	0.87	1.07
Capitol Reef	0.78	0.23	0.31	0.44	0.78
Grand Canyon	0.31	0.20	0.16	0.22	0.31
Great Sand Dunes	0.19	0.21	0.17	0.19	0.21
La Garita	0.26	0.29	0.29	0.28	0.29
Maroon Bells	0.18	0.16	0.16	0.17	0.18
Mesa Verde	1.49	1.82	1.66	1.66	1.82
Pecos	0.29	0.31	0.36	0.32	0.36
Petrified Forest	0.25	0.16	0.14	0.18	0.25
San Pedro	0.63	0.73	0.64	0.67	0.73
West Elk	0.27	0.29	0.26	0.27	0.29
Weminuche	0.38	0.56	0.44	0.46	0.56
Wheeler Peak	0.24	0.26	0.26	0.25	0.26
Overall				**0.47**	**1.82**

Table 10 Baseline (Consent Decree) Visibility Modeling Results - Unit 2 Variable Ammonia Background and Nitrate Repartitioning 98th Percentile for Each Year (dv)					
Class I Area	2001	2002	2003	Average	Maximum
Arches	0.69	0.54	0.52	0.58	0.69
Bandelier	0.23	0.40	0.37	0.33	0.40
Black Canyon	0.28	0.29	0.28	0.28	0.29
Canyonlands	0.99	0.65	0.57	0.74	0.99
Capitol Reef	0.57	0.18	0.23	0.33	0.57
Grand Canyon	0.27	0.16	0.12	0.18	0.27
Great Sand Dunes	0.14	0.14	0.14	0.14	0.14
La Garita	0.19	0.21	0.21	0.20	0.21
Maroon Bells	0.14	0.11	0.11	0.12	0.14
Mesa Verde	1.35	1.40	1.26	1.34	1.40
Pecos	0.23	0.24	0.27	0.25	0.27
Petrified Forest	0.19	0.13	0.11	0.14	0.19
San Pedro	0.44	0.58	0.50	0.51	0.58
West Elk	0.22	0.20	0.20	0.21	0.22
Weminuche	0.31	0.42	0.35	0.36	0.42
Wheeler Peak	0.18	0.17	0.20	0.18	0.20
Overall				**0.37**	**1.40**

Table 11 SNCR Visibility Modeling Results - Unit 2 Variable Ammonia Background and Nitrate Repartitioning 98th Percentile Impact for Each Year (dv)					
Class I Area	2001	2002	2003	Average	Maximum
Arches	0.57	0.44	0.44	0.48	0.57
Bandelier	0.20	0.33	0.30	0.28	0.33
Black Canyon	0.23	0.23	0.22	0.23	0.23
Canyonlands	0.87	0.52	0.48	0.62	0.87
Capitol Reef	0.46	0.15	0.21	0.27	0.46
Grand Canyon	0.22	0.14	0.12	0.16	0.22
Great Sand Dunes	0.12	0.13	0.12	0.12	0.13
La Garita	0.16	0.17	0.17	0.17	0.17
Maroon Bells	0.11	0.10	0.09	0.10	0.11
Mesa Verde	1.19	1.24	1.13	1.18	1.24
Pecos	0.19	0.21	0.23	0.21	0.23
Petrified Forest	0.17	0.11	0.10	0.12	0.17
San Pedro	0.36	0.48	0.43	0.42	0.48
West Elk	0.18	0.16	0.17	0.17	0.18
Weminuche	0.25	0.36	0.30	0.31	0.36
Wheeler Peak	0.16	0.14	0.17	0.16	0.17
Overall				**0.31**	**1.24**

Table 12
Unit 2 Visibility Improvement Cost Effectiveness for Each Class 1 Area (Based on Maximum Visibility Modeling Results)
Variable Ammonia Background and Nitrate Repartitioning

	Maximum Visibility Modeling Results (dv) (98th Percentile, see Note 1)			Visibility Improvements (dv) Calculated from Maximum Visibility Results (for each Class 1 Area)			Improvement ($/dv) (see Note 4)		
Class 1 Area	Pre-Consent Decree	Consent Decree	SNCR	Pre-Consent Decree to Consent Decree	Consent Decree to SNCR	Pre-Consent Decree to SNCR	Pre-Consent Decree to Consent Decree	Consent Decree to SNCR	Pre-Consent Decree to SNCR
Arches	0.83	0.69	0.57	0.14	0.12	0.26	86,728,571	28,888,889	60,396,887
Bandelier	0.54	0.40	0.33	0.14	0.08	0.22	86,728,571	45,066,667	72,195,349
Black Canyon	0.39	0.29	0.23	0.10	0.06	0.16	121,420,000	53,650,794	95,226,994
Canyonlands	1.07	0.99	0.87	0.08	0.12	0.20	151,775,000	27,258,065	76,088,235
Capitol Reef	0.78	0.57	0.46	0.21	0.11	0.32	57,819,048	30,178,571	48,204,969
Grand Canyon	0.31	0.27	0.22	0.04	0.05	0.09	303,550,000	65,000,000	168,717,391
Great Sand Dunes	0.21	0.14	0.13	0.07	0.02	0.09	173,457,143	225,333,333	182,611,765
La Garita	0.29	0.21	0.17	0.08	0.04	0.12	151,775,000	91,351,351	132,666,667
Maroon Bells	0.18	0.14	0.11	0.04	0.03	0.07	303,550,000	120,714,286	228,264,706
Mesa Verde	1.82	1.40	1.24	0.42	0.16	0.58	28,909,524	20,609,756	26,578,767
Pecos	0.36	0.27	0.23	0.09	0.04	0.13	134,911,111	88,947,368	121,265,625
Petrified Forest	0.25	0.19	0.17	0.06	0.03	0.09	202,366,667	135,200,000	182,611,765
San Pedro	0.73	0.58	0.48	0.15	0.11	0.26	80,946,667	32,190,476	60,870,588
West Elk	0.29	0.22	0.18	0.07	0.04	0.11	173,457,143	86,666,667	142,403,670
Weminuche	0.56	0.42	0.36	0.14	0.06	0.20	86,728,571	59,298,246	78,791,878
Wheeler Peak	0.26	0.20	0.17	0.06	0.03	0.09	202,366,667	130,000,000	180,488,372

Notes:

1. Maximum of 2001, 2002 and 2003 visibility data.
2. NI = No Improvement
3. NA = Not Applicable
4. Total Annualized Costs used in calculating Improvement are as follows (in $1,000):

Pre-Consent Decree to Consent Decree	$12,142
Consent Decree to SNCR	$3,380
Pre-Consent Decree to SNCR	$15,522

Table 13
Pre-Consent Decree Modeling Results - Unit 3
Variable Ammonia Background and Nitrate Repartitioning
98th Percentile Impact for Each Year (dv)

Class I Area	2001	2002	2003	Average	Maximum
Arches	1.04	0.81	0.72	0.86	1.04
Bandelier	0.53	0.81	0.71	0.68	0.81
Black Canyon	0.58	0.53	0.59	0.57	0.59
Canyonlands	1.44	1.04	0.96	1.15	1.44
Capitol Reef	1.10	0.38	0.52	0.67	1.10
Grand Canyon	0.48	0.33	0.26	0.36	0.48
Great Sand Dunes	0.28	0.33	0.27	0.29	0.33
La Garita	0.40	0.44	0.43	0.42	0.44
Maroon Bells	0.24	0.25	0.25	0.25	0.25
Mesa Verde	1.92	2.18	2.14	2.08	2.18
Pecos	0.48	0.52	0.58	0.53	0.58
Petrified Forest	0.43	0.25	0.24	0.31	0.43
San Pedro	0.88	1.03	0.88	0.93	1.03
West Elk	0.38	0.42	0.38	0.39	0.42
Weminuche	0.59	0.82	0.65	0.69	0.82
Wheeler Peak	0.37	0.39	0.37	0.38	0.39
Overall				**0.66**	**2.18**

Table 14 Baseline (Consent Decree) Visibility Modeling Results - Unit 3 Variable Ammonia Background and Nitrate Repartitioning 98th Percentile for Each Year (dv)					
Class I Area	2001	2002	2003	Average	Maximum
Arches	0.89	0.65	0.66	0.73	0.89
Bandelier	0.39	0.57	0.61	0.52	0.61
Black Canyon	0.44	0.41	0.46	0.44	0.46
Canyonlands	1.15	0.85	0.79	0.93	1.15
Capitol Reef	0.86	0.26	0.36	0.49	0.86
Grand Canyon	0.35	0.24	0.19	0.26	0.35
Great Sand Dunes	0.21	0.24	0.21	0.22	0.24
La Garita	0.29	0.33	0.33	0.32	0.33
Maroon Bells	0.20	0.18	0.18	0.19	0.20
Mesa Verde	1.56	1.90	1.74	1.73	1.90
Pecos	0.35	0.36	0.42	0.38	0.42
Petrified Forest	0.29	0.18	0.17	0.21	0.29
San Pedro	0.70	0.81	0.72	0.74	0.81
West Elk	0.30	0.33	0.35	0.33	0.35
Weminuche	0.44	0.64	0.50	0.53	0.64
Wheeler Peak	0.28	0.31	0.28	0.29	0.31
Overall				**0.52**	**1.90**

Table 15 SNCR Visibility Modeling Results - Unit 3 Variable Ammonia Background and Nitrate Repartitioning 98th Percentile Impact for Each Year (dv)					
Class I Area	2001	2002	2003	Average	Maximum
Arches	0.79	0.54	0.55	0.63	0.79
Bandelier	0.32	0.50	0.50	0.44	0.50
Black Canyon	0.36	0.33	0.38	0.36	0.38
Canyonlands	1.01	0.71	0.68	0.80	1.01
Capitol Reef	0.71	0.23	0.33	0.42	0.71
Grand Canyon	0.28	0.20	0.18	0.22	0.28
Great Sand Dunes	0.18	0.20	0.17	0.18	0.20
La Garita	0.26	0.28	0.27	0.27	0.28
Maroon Bells	0.16	0.16	0.14	0.15	0.16
Mesa Verde	1.50	1.75	1.59	1.61	1.75
Pecos	0.29	0.30	0.36	0.32	0.36
Petrified Forest	0.27	0.17	0.16	0.20	0.27
San Pedro	0.59	0.67	0.61	0.62	0.67
West Elk	0.25	0.27	0.28	0.27	0.28
Weminuche	0.36	0.54	0.41	0.44	0.54
Wheeler Peak	0.22	0.26	0.24	0.24	0.26
Overall				**0.45**	**1.75**

Table 16
Unit 3 Visibility Improvement Cost Effectiveness for Each Class 1 Area (Based on Maximum Visibility Modeling Results)
Variable Ammonia Background and Nitrate Repartitioning

	Maximum Visibility Modeling Results (dv) (98th Percentile, see Note 1)			Visibility Improvements (dv) Calculated from Maximum Visibility Results (for each Class 1 Area)			Improvement ($/dv) (see Note 4)		
Class 1 Area	Pre-Consent Decree	Consent Decree	SNCR	Pre-Consent Decree to Consent Decree	Consent Decree to SNCR	Pre-Consent Decree to SNCR	Pre-Consent Decree to Consent Decree	Consent Decree to SNCR	Pre-Consent Decree to SNCR
Arches	1.04	0.89	0.79	0.15	0.10	0.25	91,293,333	46,424,242	73,453,815
Bandelier	0.81	0.61	0.50	0.20	0.11	0.31	68,470,000	42,953,271	59,576,547
Black Canyon	0.59	0.46	0.38	0.13	0.08	0.21	105,338,462	56,740,741	86,682,464
Canyonlands	1.44	1.15	1.01	0.29	0.14	0.43	47,220,690	33,794,118	42,934,272
Capitol Reef	1.10	0.86	0.71	0.24	0.15	0.39	57,058,333	30,236,842	46,658,163
Grand Canyon	0.48	0.35	0.28	0.13	0.07	0.20	105,338,462	67,588,235	92,373,737
Great Sand Dunes	0.33	0.24	0.20	0.09	0.04	0.13	152,155,556	112,097,561	139,618,321
La Garita	0.44	0.33	0.28	0.11	0.05	0.16	124,490,909	91,920,000	114,312,500
Maroon Bells	0.25	0.20	0.16	0.05	0.04	0.09	273,880,000	124,216,216	210,229,885
Mesa Verde	2.18	1.90	1.75	0.28	0.15	0.43	48,907,143	29,844,156	42,142,857
Pecos	0.58	0.42	0.36	0.16	0.06	0.22	85,587,500	82,071,429	84,675,926
Petrified Forest	0.43	0.29	0.27	0.14	0.02	0.16	97,814,286	287,250,000	117,243,590
San Pedro	1.03	0.81	0.67	0.22	0.14	0.36	62,245,455	33,547,445	51,232,493
West Elk	0.42	0.35	0.28	0.07	0.07	0.14	195,628,571	66,608,696	131,582,734
Weminuche	0.82	0.64	0.54	0.18	0.10	0.28	76,077,778	47,875,000	66,268,116
Wheeler Peak	0.39	0.31	0.26	0.08	0.05	0.13	171,175,000	95,750,000	142,890,625

Notes:

1. Maximum of 2001, 2002 and 2003 visibility data.
2. NI = No Improvement
3. NA = Not Applicable
4. Total Annualized Costs used in calculating Improvement are as follows (in $1,000):

Pre-Consent Decree to Consent Decree	$13,694
Consent Decree to SNCR	$4,596
Pre-Consent Decree to SNCR	$18,290

Table 17
Pre-Consent Decree Modeling Results - Unit 4
Variable Ammonia Background and Nitrate Repartitioning
98th Percentile Impact for Each Year (dv)

Class I Area	2001	2002	2003	Average	Maximum
Arches	1.05	0.84	0.74	0.88	1.05
Bandelier	0.54	0.81	0.71	0.69	0.81
Black Canyon	0.58	0.54	0.59	0.57	0.59
Canyonlands	1.47	1.06	0.97	1.17	1.47
Capitol Reef	1.11	0.38	0.53	0.67	1.11
Grand Canyon	0.48	0.34	0.27	0.36	0.48
Great Sand Dunes	0.29	0.34	0.27	0.30	0.34
La Garita	0.40	0.45	0.43	0.43	0.45
Maroon Bells	0.24	0.25	0.24	0.24	0.25
Mesa Verde	1.94	2.18	2.15	2.09	2.18
Pecos	0.48	0.52	0.59	0.53	0.59
Petrified Forest	0.44	0.27	0.25	0.32	0.44
San Pedro	0.89	1.04	0.88	0.94	1.04
West Elk	0.38	0.43	0.39	0.40	0.43
Weminuche	0.59	0.81	0.65	0.68	0.81
Wheeler Peak	0.37	0.41	0.38	0.39	0.41
Overall				**0.67**	**2.18**

Table 18 Baseline (Consent Decree) Visibility Modeling Results - Unit 4 Variable Ammonia Background and Nitrate Repartitioning 98th Percentile for Each Year (dv)					
Class I Area	2001	2002	2003	Average	Maximum
Arches	0.88	0.65	0.63	0.72	0.88
Bandelier	0.38	0.56	0.60	0.51	0.60
Black Canyon	0.42	0.42	0.44	0.43	0.44
Canyonlands	1.14	0.85	0.78	0.92	1.14
Capitol Reef	0.86	0.26	0.35	0.49	0.86
Grand Canyon	0.36	0.24	0.18	0.26	0.36
Great Sand Dunes	0.21	0.23	0.21	0.22	0.23
La Garita	0.28	0.32	0.32	0.31	0.32
Maroon Bells	0.20	0.19	0.18	0.19	0.20
Mesa Verde	1.55	1.89	1.73	1.72	1.89
Pecos	0.34	0.35	0.41	0.37	0.41
Petrified Forest	0.29	0.18	0.17	0.21	0.29
San Pedro	0.69	0.80	0.69	0.73	0.80
West Elk	0.30	0.33	0.33	0.32	0.33
Weminuche	0.43	0.63	0.49	0.52	0.63
Wheeler Peak	0.28	0.30	0.28	0.29	0.30
Overall				**0.51**	**1.89**

Table 19 SNCR Visibility Modeling Results - Unit 4 Variable Ammonia Background and Nitrate Repartitioning 98th Percentile Impact for Each Year (dv)					
Class I Area	2001	2002	2003	Average	Maximum
Arches	0.79	0.54	0.53	0.62	0.79
Bandelier	0.31	0.49	0.49	0.43	0.49
Black Canyon	0.35	0.34	0.37	0.35	0.37
Canyonlands	1.01	0.71	0.67	0.80	1.01
Capitol Reef	0.71	0.23	0.32	0.42	0.71
Grand Canyon	0.29	0.20	0.17	0.22	0.29
Great Sand Dunes	0.18	0.19	0.16	0.18	0.19
La Garita	0.25	0.27	0.26	0.26	0.27
Maroon Bells	0.17	0.16	0.14	0.15	0.17
Mesa Verde	1.49	1.73	1.58	1.60	1.73
Pecos	0.29	0.30	0.36	0.32	0.36
Petrified Forest	0.29	0.17	0.17	0.21	0.29
San Pedro	0.69	0.66	0.69	0.68	0.69
West Elk	0.25	0.27	0.26	0.26	0.27
Weminuche	0.36	0.54	0.40	0.43	0.54
Wheeler Peak	0.22	0.26	0.23	0.24	0.26
Overall				**0.45**	**1.73**

Table 20
Unit 4 Visibility Improvement Cost Effectiveness for Each Class 1 Area (Based on Maximum Visibility Modeling Results)
Variable Ammonia Background and Nitrate Repartitioning

	Maximum Visibility Modeling Results (dv) (98th Percentile, see Note 1)			Visibility Improvements (dv) Calculated from Maximum Visibility Results (for each Class 1 Area)			Improvement ($/dv) (see Note 4)		
Class 1 Area	Pre-Consent Decree	Consent Decree	SNCR	Pre-Consent Decree to Consent Decree	Consent Decree to SNCR	Pre-Consent Decree to SNCR	Pre-Consent Decree to Consent Decree	Consent Decree to SNCR	Pre-Consent Decree to SNCR
Arches	1.05	0.88	0.79	0.17	0.10	0.27	81,076,471	48,378,947	69,354,717
Bandelier	0.81	0.60	0.49	0.21	0.11	0.32	65,633,333	42,555,556	57,795,597
Black Canyon	0.59	0.44	0.37	0.15	0.08	0.23	91,886,667	61,280,000	81,684,444
Canyonlands	1.47	1.14	1.01	0.33	0.13	0.46	41,766,667	35,627,907	40,041,394
Capitol Reef	1.11	0.86	0.71	0.25	0.15	0.40	55,132,000	30,039,216	45,605,459
Grand Canyon	0.48	0.36	0.29	0.12	0.07	0.19	114,858,333	67,588,235	97,760,638
Great Sand Dunes	0.34	0.23	0.19	0.11	0.04	0.15	125,300,000	127,666,667	125,883,562
La Garita	0.45	0.32	0.27	0.13	0.05	0.18	106,023,077	99,913,043	104,426,136
Maroon Bells	0.25	0.20	0.17	0.05	0.04	0.09	275,660,000	131,314,286	216,223,529
Mesa Verde	2.18	1.89	1.73	0.29	0.16	0.45	47,527,586	28,725,000	40,842,222
Pecos	0.59	0.41	0.36	0.18	0.05	0.23	76,572,222	91,920,000	79,908,696
Petrified Forest	0.44	0.29	0.29	0.15	0.00	0.15	91,886,667	2,298,000,000	120,914,474
San Pedro	1.04	0.80	0.69	0.24	0.11	0.35	57,429,167	42,555,556	52,813,218
West Elk	0.43	0.33	0.27	0.10	0.06	0.16	137,830,000	76,600,000	114,868,750
Weminuche	0.81	0.63	0.54	0.18	0.09	0.27	76,572,222	49,419,355	67,322,344
Wheeler Peak	0.41	0.30	0.26	0.11	0.04	0.15	125,300,000	106,883,721	120,124,183

Notes:

1. Maximum of 2001, 2002 and 2003 visibility data.
2. NI = No Improvement
3. NA = Not Applicable
4. Total Annualized Costs used in calculating Improvement are as follows (in $1,000):

Pre-Consent Decree to Consent Decree	$13,783
Consent Decree to SNCR	$4,596
Pre-Consent Decree to SNCR	$18,379

Table 21
Pre-Consent Decree Modeling Results
SJGS Constant Ammonia Background and Nitrate Repartitioning
98th Percentile Impact for Each Year (dv)

Class I Area	2001	2002	2003	Average	Maximum
Arches	3.88	2.93	3.04	3.28	3.88
Bandelier	1.76	2.55	2.83	2.38	2.83
Black Canyon	1.97	1.95	2.15	2.02	2.15
Canyonlands	5.13	3.81	3.75	4.23	5.13
Capitol Reef	3.75	1.20	1.61	2.19	3.75
Grand Canyon	1.76	1.28	0.92	1.32	1.76
Great Sand Dunes	1.09	1.10	0.96	1.05	1.10
La Garita	1.46	1.45	1.52	1.48	1.52
Maroon Bells	0.89	0.85	0.91	0.88	0.91
Mesa Verde	6.04	5.98	5.85	5.96	6.04
Pecos	1.59	1.93	2.23	1.92	2.23
Petrified Forest	1.34	0.86	0.78	0.99	1.34
San Pedro	3.47	3.47	3.35	3.43	3.47
West Elk	1.45	1.47	1.42	1.45	1.47
Weminuche	2.01	2.57	2.25	2.28	2.57
Wheeler Peak	1.32	1.44	1.35	1.37	1.44
Overall				**2.26**	**6.04**

Table 22 Baseline (Consent Decree) Visibility Modeling Results SJGS Constant Ammonia Background and Nitrate Repartitioning 98th Percentile for Each Year (dv)					
Class I Area	2001	2002	2003	Average	Maximum
Arches	3.63	2.82	2.71	3.05	3.63
Bandelier	1.32	2.07	2.14	1.84	2.14
Black Canyon	1.49	1.56	1.76	1.60	1.76
Canyonlands	4.80	3.29	3.05	3.71	4.80
Capitol Reef	2.89	0.93	1.24	1.69	2.89
Grand Canyon	1.46	0.98	0.68	1.04	1.46
Great Sand Dunes	0.83	0.80	0.71	0.78	0.83
La Garita	1.08	1.13	1.15	1.12	1.15
Maroon Bells	0.70	0.66	0.65	0.67	0.70
Mesa Verde	5.27	5.67	5.10	5.35	5.67
Pecos	1.20	1.47	1.67	1.45	1.67
Petrified Forest	0.96	0.66	0.60	0.74	0.96
San Pedro	2.68	2.91	2.78	2.79	2.91
West Elk	1.12	1.12	1.09	1.11	1.12
Weminuche	1.56	2.00	1.68	1.75	2.00
Wheeler Peak	0.96	1.06	1.15	1.06	1.15
Overall				**1.86**	**5.67**

Table 23 SNCR Visibility Modeling Results Constant Ammonia Background and Nitrate Repartitioning 98th Percentile Impact for Each Year (dv)					
Class I Area	2001	2002	2003	Average	Maximum
Arches	3.06	2.31	2.22	2.53	3.06
Bandelier	1.09	1.76	1.76	1.54	1.76
Black Canyon	1.22	1.26	1.44	1.30	1.44
Canyonlands	4.04	2.72	2.53	3.10	4.04
Capitol Reef	2.36	0.80	1.12	1.42	2.36
Grand Canyon	1.18	0.81	0.59	0.86	1.18
Great Sand Dunes	0.69	0.65	0.59	0.64	0.69
La Garita	0.87	0.90	0.97	0.91	0.97
Maroon Bells	0.56	0.54	0.52	0.54	0.56
Mesa Verde	4.63	5.30	4.74	4.89	5.30
Pecos	1.01	1.23	1.38	1.20	1.38
Petrified Forest	0.89	0.54	0.53	0.65	0.89
San Pedro	2.19	2.61	2.34	2.38	2.61
West Elk	0.90	0.91	0.90	0.90	0.91
Weminuche	1.29	1.77	1.45	1.50	1.77
Wheeler Peak	0.89	0.86	0.93	0.89	0.93
Overall				**1.58**	**5.30**

Table 24
SJGS Visibility Improvement Cost Effectiveness for Each Class 1 Area (Based on Maximum Visibility Modeling Results)
Constant Ammonia Background and Nitrate Repartitioning

	Maximum Visibility Modeling Results (dv) (98th Percentile, see Note 1)			Visibility Improvements (dv) Calculated from Maximum Visibility Results (for each Class 1 Area)			Improvement ($/dv) (see Note 4)		
Class 1 Area	Pre-Consent Decree	Consent Decree	SNCR	Pre-Consent Decree to Consent Decree	Consent Decree to SNCR	Pre-Consent Decree to SNCR	Pre-Consent Decree to Consent Decree	Consent Decree to SNCR	Pre-Consent Decree to SNCR
Arches	3.88	3.63	3.06	0.25	0.57	0.82	205,872,000	27,888,112	82,019,465
Bandelier	2.83	2.14	1.76	0.69	0.38	1.07	74,591,304	42,312,997	63,186,504
Black Canyon	2.15	1.76	1.44	0.39	0.33	0.72	131,969,231	49,083,077	94,293,706
Canyonlands	5.13	4.80	4.04	0.33	0.76	1.09	155,963,636	20,879,581	61,627,057
Capitol Reef	3.75	2.89	2.36	0.86	0.53	1.39	59,846,512	30,098,113	48,503,597
Grand Canyon	1.76	1.46	1.18	0.30	0.28	0.58	171,560,000	56,367,491	115,643,225
Great Sand Dunes	1.10	0.83	0.69	0.27	0.14	0.41	190,622,222	117,294,118	166,059,113
La Garita	1.52	1.15	0.97	0.37	0.18	0.55	139,102,703	86,695,652	121,696,751
Maroon Bells	0.91	0.70	0.56	0.21	0.14	0.35	245,085,714	113,134,752	192,079,772
Mesa Verde	6.04	5.67	5.30	0.37	0.37	0.74	139,102,703	42,766,756	90,740,242
Pecos	2.23	1.67	1.38	0.56	0.29	0.85	91,907,143	54,258,503	78,946,136
Petrified Forest	1.34	0.96	0.89	0.38	0.08	0.46	135,442,105	212,693,333	148,175,824
San Pedro	3.47	2.91	2.61	0.56	0.30	0.86	91,907,143	53,173,333	78,395,349
West Elk	1.47	1.12	0.91	0.35	0.21	0.56	147,051,429	77,062,802	121,041,293
Weminuche	2.57	2.00	1.77	0.57	0.23	0.80	90,294,737	69,056,277	84,169,788
Wheeler Peak	1.44	1.15	0.93	0.29	0.22	0.51	177,475,862	73,851,852	133,241,107

Notes:

1. Maximum of 2001, 2002 and 2003 visibility data.
2. NI = No Improvement
3. NA = Not Applicable
4. Total Annualized Costs used in calculating Improvement are as follows (in $1,000):

Pre-Consent Decree to Consent Decree	$51,468
Consent Decree to SNCR	$15,952
Pre-Consent Decree to SNCR	$67,420

Table 25
Pre-Consent Decree Modeling Results - Unit 1
Constant Ammonia Background and Nitrate Repartitioning
98th Percentile Impact for Each Year (dv)

Class I Area	2001	2002	2003	Average	Maximum
Arches	1.10	0.85	0.82	0.92	1.10
Bandelier	0.36	0.64	0.63	0.54	0.64
Black Canyon	0.39	0.43	0.48	0.43	0.48
Canyonlands	1.50	1.02	0.90	1.14	1.50
Capitol Reef	0.85	0.26	0.36	0.49	0.85
Grand Canyon	0.39	0.26	0.19	0.28	0.39
Great Sand Dunes	0.22	0.21	0.20	0.21	0.22
La Garita	0.29	0.32	0.33	0.31	0.33
Maroon Bells	0.19	0.19	0.20	0.19	0.20
Mesa Verde	2.26	2.56	2.20	2.34	2.56
Pecos	0.33	0.42	0.46	0.40	0.46
Petrified Forest	0.26	0.18	0.16	0.20	0.26
San Pedro	0.80	1.00	0.86	0.89	1.00
West Elk	0.33	0.32	0.30	0.32	0.33
Weminuche	0.45	0.59	0.52	0.52	0.59
Wheeler Peak	0.27	0.28	0.31	0.29	0.31
Overall				**0.59**	**2.56**

Table 26 Baseline (Consent Decree) Visibility Modeling Results - Unit 1 Constant Ammonia Background and Nitrate Repartitioning 98th Percentile for Each Year (dv)					
Class I Area	2001	2002	2003	Average	Maximum
Arches	0.86	0.67	0.71	0.75	0.86
Bandelier	0.29	0.49	0.44	0.41	0.49
Black Canyon	0.31	0.33	0.36	0.33	0.36
Canyonlands	1.25	0.80	0.71	0.92	1.25
Capitol Reef	0.66	0.20	0.28	0.38	0.66
Grand Canyon	0.34	0.21	0.16	0.24	0.34
Great Sand Dunes	0.16	0.15	0.16	0.16	0.16
La Garita	0.22	0.22	0.24	0.23	0.24
Maroon Bells	0.15	0.13	0.12	0.13	0.15
Mesa Verde	1.96	2.23	1.77	1.99	2.23
Pecos	0.25	0.32	0.34	0.30	0.34
Petrified Forest	0.19	0.14	0.12	0.15	0.19
San Pedro	0.57	0.75	0.65	0.66	0.75
West Elk	0.25	0.22	0.25	0.24	0.25
Weminuche	0.34	0.52	0.39	0.42	0.52
Wheeler Peak	0.23	0.19	0.23	0.22	0.23
Overall				**0.47**	**2.23**

Table 27 SNCR Visibility Modeling Results - Unit 1 Constant Ammonia Background and Nitrate Repartitioning 98th Percentile Impact for Each Year (dv)					
Class I Area	2001	2002	2003	Average	Maximum
Arches	0.69	0.53	0.57	0.59	0.69
Bandelier	0.23	0.39	0.35	0.33	0.39
Black Canyon	0.25	0.26	0.29	0.27	0.29
Canyonlands	0.99	0.63	0.58	0.73	0.99
Capitol Reef	0.52	0.16	0.23	0.31	0.52
Grand Canyon	0.27	0.17	0.13	0.19	0.27
Great Sand Dunes	0.13	0.13	0.13	0.13	0.13
La Garita	0.18	0.18	0.20	0.19	0.20
Maroon Bells	0.12	0.11	0.10	0.11	0.12
Mesa Verde	1.61	1.83	1.54	1.66	1.83
Pecos	0.22	0.26	0.28	0.25	0.28
Petrified Forest	0.17	0.11	0.11	0.13	0.17
San Pedro	0.45	0.63	0.53	0.54	0.63
West Elk	0.20	0.18	0.19	0.19	0.20
Weminuche	0.27	0.41	0.32	0.33	0.41
Wheeler Peak	0.19	0.15	0.18	0.17	0.19
Overall				**0.38**	**1.83**

Table 28
Unit 1 Visibility Improvement Cost Effectiveness for Each Class 1 Area (Based on Maximum Visibility Modeling Results)
Constant Ammonia Background and Nitrate Repartitioning

	Maximum Visibility Modeling Results (dv) (98th Percentile, see Note 1)			Visibility Improvements (dv) Calculated from Maximum Visibility Results (for each Class 1 Area)			Improvement ($/dv) (see Note 4)		
Class 1 Area	Pre-Consent Decree	Consent Decree	SNCR	Pre-Consent Decree to Consent Decree	Consent Decree to SNCR	Pre-Consent Decree to SNCR	Pre-Consent Decree to Consent Decree	Consent Decree to SNCR	Pre-Consent Decree to SNCR
Arches	1.10	0.86	0.69	0.24	0.18	0.42	49,370,833	19,314,286	36,696,386
Bandelier	0.64	0.49	0.39	0.15	0.10	0.25	78,993,333	34,845,361	61,655,870
Black Canyon	0.48	0.36	0.29	0.12	0.07	0.19	98,741,667	51,212,121	81,876,344
Canyonlands	1.50	1.25	0.99	0.25	0.26	0.51	47,396,000	13,203,125	30,096,838
Capitol Reef	0.85	0.66	0.52	0.19	0.14	0.33	62,363,158	24,316,547	46,288,754
Grand Canyon	0.39	0.34	0.27	0.05	0.07	0.12	236,980,000	48,985,507	127,974,790
Great Sand Dunes	0.22	0.16	0.13	0.06	0.03	0.09	197,483,333	116,551,724	171,112,360
La Garita	0.33	0.24	0.20	0.09	0.05	0.14	131,655,556	75,111,111	112,807,407
Maroon Bells	0.20	0.15	0.12	0.05	0.04	0.09	236,980,000	96,571,429	179,164,706
Mesa Verde	2.56	2.23	1.83	0.33	0.41	0.74	35,906,061	8,345,679	20,719,728
Pecos	0.46	0.34	0.28	0.12	0.06	0.18	98,741,667	60,357,143	86,528,409
Petrified Forest	0.26	0.19	0.17	0.07	0.02	0.09	169,271,429	198,823,529	175,045,977
San Pedro	1.00	0.75	0.63	0.25	0.12	0.37	47,396,000	27,933,884	41,048,518
West Elk	0.33	0.25	0.20	0.08	0.05	0.13	148,112,500	62,592,593	113,649,254
Weminuche	0.59	0.52	0.41	0.07	0.11	0.18	169,271,429	30,727,273	84,605,556
Wheeler Peak	0.31	0.23	0.19	0.08	0.05	0.13	148,112,500	75,111,111	121,832,000

Notes:

1. Maximum of 2001, 2002 and 2003 visibility data.
2. NI = No Improvement
3. NA = Not Applicable
4. Total Annualized Costs used in calculating Improvement are as follows (in $1,000):

Pre-Consent Decree to Consent Decree	$11,849
Consent Decree to SNCR	$3,380
Pre-Consent Decree to SNCR	$15,229

Table 29
Pre-Consent Decree Modeling Results - Unit 2
Constant Ammonia Background and Nitrate Repartitioning
98th Percentile Impact for Each Year (dv)

Class I Area	2001	2002	2003	Average	Maximum
Arches	1.13	0.85	0.78	0.92	1.13
Bandelier	0.38	0.65	0.65	0.56	0.65
Black Canyon	0.41	0.44	0.49	0.45	0.49
Canyonlands	1.53	1.03	0.91	1.16	1.53
Capitol Reef	0.88	0.26	0.36	0.50	0.88
Grand Canyon	0.39	0.26	0.19	0.28	0.39
Great Sand Dunes	0.24	0.21	0.20	0.22	0.24
La Garita	0.32	0.33	0.33	0.33	0.33
Maroon Bells	0.19	0.18	0.20	0.19	0.20
Mesa Verde	2.32	2.59	2.21	2.37	2.59
Pecos	0.34	0.42	0.47	0.41	0.47
Petrified Forest	0.27	0.18	0.16	0.20	0.27
San Pedro	0.83	1.02	0.87	0.91	1.02
West Elk	0.33	0.33	0.32	0.33	0.33
Weminuche	0.46	0.59	0.53	0.53	0.59
Wheeler Peak	0.27	0.29	0.30	0.29	0.30
Overall				**0.60**	**2.59**

Table 30 Baseline (Consent Decree) Visibility Modeling Results - Unit 2 Constant Ammonia Background and Nitrate Repartitioning 98th Percentile for Each Year (dv)					
Class I Area	2001	2002	2003	Average	Maximum
Arches	0.85	0.67	0.71	0.74	0.85
Bandelier	0.28	0.48	0.43	0.40	0.48
Black Canyon	0.31	0.33	0.36	0.33	0.36
Canyonlands	1.24	0.79	0.70	0.91	1.24
Capitol Reef	0.66	0.20	0.28	0.38	0.66
Grand Canyon	0.34	0.21	0.16	0.24	0.34
Great Sand Dunes	0.16	0.15	0.16	0.16	0.16
La Garita	0.22	0.22	0.24	0.23	0.24
Maroon Bells	0.15	0.13	0.12	0.13	0.15
Mesa Verde	1.95	2.22	1.76	1.98	2.22
Pecos	0.25	0.31	0.34	0.30	0.34
Petrified Forest	0.19	0.14	0.12	0.15	0.19
San Pedro	0.57	0.75	0.65	0.66	0.75
West Elk	0.25	0.22	0.24	0.24	0.25
Weminuche	0.34	0.51	0.39	0.41	0.51
Wheeler Peak	0.23	0.19	0.23	0.22	0.23
Overall				**0.47**	**2.22**

Table 31 SNCR Visibility Modeling Results - Unit 2 Constant Ammonia Background and Nitrate Repartitioning 98th Percentile Impact for Each Year (dv)					
Class I Area	2001	2002	2003	Average	Maximum
Arches	0.68	0.53	0.56	0.59	0.68
Bandelier	0.23	0.39	0.35	0.32	0.39
Black Canyon	0.25	0.26	0.29	0.27	0.29
Canyonlands	0.99	0.63	0.57	0.73	0.99
Capitol Reef	0.52	0.16	0.23	0.30	0.52
Grand Canyon	0.27	0.17	0.13	0.19	0.27
Great Sand Dunes	0.13	0.13	0.13	0.13	0.13
La Garita	0.18	0.18	0.19	0.18	0.19
Maroon Bells	0.12	0.11	0.10	0.11	0.12
Mesa Verde	1.60	1.82	1.54	1.65	1.82
Pecos	0.22	0.26	0.28	0.25	0.28
Petrified Forest	0.17	0.11	0.11	0.13	0.17
San Pedro	0.45	0.63	0.52	0.53	0.63
West Elk	0.20	0.18	0.19	0.19	0.20
Weminuche	0.27	0.41	0.32	0.33	0.41
Wheeler Peak	0.18	0.15	0.18	0.17	0.18
Overall				**0.38**	**1.82**

Table 32
Unit 2 Visibility Improvement Cost Effectiveness for Each Class 1 Area (Based on Maximum Visibility Modeling Results)
Constant Ammonia Background and Nitrate Repartitioning

	Maximum Visibility Modeling Results (dv) (98th Percentile, see Note 1)			Visibility Improvements (dv) Calculated from Maximum Visibility Results (for each Class 1 Area)			Improvement ($/dv) (see Note 4)		
Class 1 Area	Pre-Consent Decree	Consent Decree	SNCR	Pre-Consent Decree to Consent Decree	Consent Decree to SNCR	Pre-Consent Decree to SNCR	Pre-Consent Decree to Consent Decree	Consent Decree to SNCR	Pre-Consent Decree to SNCR
Arches	1.13	0.85	0.68	0.28	0.17	0.45	43,364,286	20,000,000	34,570,156
Bandelier	0.65	0.48	0.39	0.17	0.09	0.26	71,423,529	37,977,528	59,930,502
Black Canyon	0.49	0.36	0.29	0.13	0.07	0.20	93,400,000	49,705,882	78,393,939
Canyonlands	1.53	1.24	0.99	0.29	0.25	0.54	41,868,966	13,466,135	28,691,312
Capitol Reef	0.88	0.66	0.52	0.22	0.14	0.36	55,190,909	23,971,631	42,997,230
Grand Canyon	0.39	0.34	0.27	0.05	0.07	0.12	242,840,000	47,605,634	128,280,992
Great Sand Dunes	0.24	0.16	0.13	0.08	0.03	0.11	151,775,000	112,666,667	141,109,091
La Garita	0.33	0.24	0.19	0.09	0.05	0.14	134,911,111	73,478,261	114,132,353
Maroon Bells	0.20	0.15	0.12	0.05	0.04	0.09	242,840,000	96,571,429	182,611,765
Mesa Verde	2.59	2.22	1.82	0.37	0.40	0.77	32,816,216	8,366,337	20,054,264
Pecos	0.47	0.34	0.28	0.13	0.06	0.19	93,400,000	58,275,862	82,563,830
Petrified Forest	0.27	0.19	0.17	0.08	0.02	0.10	151,775,000	187,777,778	158,387,755
San Pedro	1.02	0.75	0.63	0.27	0.12	0.39	44,970,370	27,258,065	39,395,939
West Elk	0.33	0.25	0.20	0.08	0.06	0.14	151,775,000	61,454,545	114,977,778
Weminuche	0.59	0.51	0.41	0.08	0.10	0.18	151,775,000	33,137,255	85,285,714
Wheeler Peak	0.30	0.23	0.18	0.07	0.05	0.12	173,457,143	73,478,261	133,810,345

Notes:

1. Maximum of 2001, 2002 and 2003 visibility data.
2. NI = No Improvement
3. NA = Not Applicable
4. Total Annualized Costs used in calculating Improvement are as follows (in $1,000):

Pre-Consent Decree to Consent Decree	$12,142
Consent Decree to SNCR	$3,380
Pre-Consent Decree to SNCR	$15,522

Table 33
Pre-Consent Decree Modeling Results - Unit 3
Constant Ammonia Background and Nitrate Repartitioning
98th Percentile Impact for Each Year (dv)

Class I Area	2001	2002	2003	Average	Maximum
Arches	1.57	1.00	0.94	1.17	1.57
Bandelier	0.60	0.97	1.01	0.86	1.01
Black Canyon	0.68	0.63	0.76	0.69	0.76
Canyonlands	2.01	1.21	1.26	1.49	2.01
Capitol Reef	1.30	0.40	0.54	0.75	1.30
Grand Canyon	0.55	0.40	0.31	0.42	0.55
Great Sand Dunes	0.34	0.41	0.31	0.35	0.41
La Garita	0.48	0.50	0.52	0.50	0.52
Maroon Bells	0.28	0.27	0.31	0.29	0.31
Mesa Verde	3.05	3.49	2.92	3.15	3.49
Pecos	0.53	0.64	0.75	0.64	0.75
Petrified Forest	0.45	0.27	0.24	0.32	0.45
San Pedro	1.23	1.48	1.25	1.32	1.48
West Elk	0.45	0.50	0.44	0.46	0.50
Weminuche	0.71	1.03	0.81	0.85	1.03
Wheeler Peak	0.44	0.45	0.42	0.44	0.45
Overall				**0.86**	**3.49**

Table 34 Baseline (Consent Decree) Visibility Modeling Results - Unit 3 Constant Ammonia Background and Nitrate Repartitioning 98th Percentile for Each Year (dv)					
Class I Area	2001	2002	2003	Average	Maximum
Arches	1.33	0.88	0.84	1.02	1.33
Bandelier	0.43	0.75	0.78	0.65	0.78
Black Canyon	0.49	0.52	0.61	0.54	0.61
Canyonlands	1.67	1.12	1.07	1.29	1.67
Capitol Reef	0.99	0.28	0.42	0.56	0.99
Grand Canyon	0.44	0.30	0.22	0.32	0.44
Great Sand Dunes	0.27	0.26	0.23	0.25	0.27
La Garita	0.35	0.35	0.38	0.36	0.38
Maroon Bells	0.22	0.21	0.22	0.22	0.22
Mesa Verde	2.42	2.86	2.41	2.56	2.86
Pecos	0.39	0.48	0.55	0.47	0.55
Petrified Forest	0.32	0.20	0.19	0.24	0.32
San Pedro	0.95	1.14	1.02	1.04	1.14
West Elk	0.36	0.39	0.39	0.38	0.39
Weminuche	0.52	0.79	0.58	0.63	0.79
Wheeler Peak	0.31	0.34	0.33	0.33	0.34
Overall				**0.68**	**2.86**

Table 35 SNCR Visibility Modeling Results - Unit 3 Constant Ammonia Background and Nitrate Repartitioning 98th Percentile Impact for Each Year (dv)					
Class I Area	2001	2002	2003	Average	Maximum
Arches	1.06	0.70	0.67	0.81	1.06
Bandelier	0.36	0.62	0.63	0.54	0.63
Black Canyon	0.39	0.41	0.49	0.43	0.49
Canyonlands	1.34	0.89	0.85	1.03	1.34
Capitol Reef	0.79	0.25	0.36	0.47	0.79
Grand Canyon	0.35	0.25	0.19	0.26	0.35
Great Sand Dunes	0.22	0.21	0.19	0.21	0.22
La Garita	0.28	0.28	0.32	0.29	0.32
Maroon Bells	0.17	0.17	0.17	0.17	0.17
Mesa Verde	2.11	2.37	2.05	2.17	2.37
Pecos	0.33	0.40	0.46	0.40	0.46
Petrified Forest	0.28	0.17	0.16	0.20	0.28
San Pedro	0.76	0.92	0.82	0.83	0.92
West Elk	0.29	0.31	0.31	0.30	0.31
Weminuche	0.43	0.62	0.52	0.52	0.62
Wheeler Peak	0.29	0.29	0.28	0.28	0.29
Overall				**0.56**	**2.37**

Table 36
Unit 3 Visibility Improvement Cost Effectiveness for Each Class 1 Area (Based on Maximum Visibility Modeling Results)
Constant Ammonia Background and Nitrate Repartitioning

	Maximum Visibility Modeling Results (dv) (98th Percentile, see Note 1)			Visibility Improvements (dv) Calculated from Maximum Visibility Results (for each Class 1 Area)			Improvement ($/dv) (see Note 4)		
Class 1 Area	Pre-Consent Decree	Consent Decree	SNCR	Pre-Consent Decree to Consent Decree	Consent Decree to SNCR	Pre-Consent Decree to SNCR	Pre-Consent Decree to Consent Decree	Consent Decree to SNCR	Pre-Consent Decree to SNCR
Arches	1.57	1.33	1.06	0.24	0.27	0.51	57,058,333	17,213,483	36,074,951
Bandelier	1.01	0.78	0.63	0.23	0.15	0.38	59,539,130	29,844,156	47,630,208
Black Canyon	0.76	0.61	0.49	0.15	0.12	0.27	91,293,333	38,300,000	67,740,741
Canyonlands	2.01	1.67	1.34	0.34	0.33	0.67	40,276,471	14,055,046	27,421,289
Capitol Reef	1.30	0.99	0.79	0.31	0.20	0.51	44,174,194	23,095,477	35,933,202
Grand Canyon	0.55	0.44	0.35	0.11	0.09	0.20	124,490,909	51,066,667	91,450,000
Great Sand Dunes	0.41	0.27	0.22	0.14	0.05	0.19	97,814,286	93,795,918	96,772,487
La Garita	0.52	0.38	0.32	0.14	0.06	0.20	97,814,286	74,129,032	90,544,554
Maroon Bells	0.31	0.22	0.17	0.09	0.05	0.14	152,155,556	99,913,043	134,485,294
Mesa Verde	3.49	2.86	2.37	0.63	0.50	1.13	21,736,508	9,284,848	16,257,778
Pecos	0.75	0.55	0.46	0.20	0.09	0.29	68,470,000	52,827,586	63,728,223
Petrified Forest	0.45	0.32	0.28	0.13	0.04	0.17	105,338,462	127,666,667	110,180,723
San Pedro	1.48	1.14	0.92	0.34	0.22	0.56	40,276,471	20,890,909	32,660,714
West Elk	0.50	0.39	0.31	0.11	0.08	0.19	124,490,909	59,688,312	97,807,487
Weminuche	1.03	0.79	0.62	0.24	0.17	0.41	57,058,333	27,686,747	45,049,261
Wheeler Peak	0.45	0.34	0.29	0.11	0.05	0.16	124,490,909	86,716,981	112,208,589

Notes:

1. Maximum of 2001, 2002 and 2003 visibility data.
2. NI = No Improvement
3. NA = Not Applicable
4. Total Annualized Costs used in calculating Improvement are as follows (in $1,000):

Pre-Consent Decree to Consent Decree	$13,694
Consent Decree to SNCR	$4,596
Pre-Consent Decree to SNCR	$18,290

Table 37
Pre-Consent Decree Modeling Results - Unit 4
Constant Ammonia Background and Nitrate Repartitioning
98th Percentile Impact for Each Year (dv)

Class I Area	2001	2002	2003	Average	Maximum
Arches	1.60	1.05	0.98	1.21	1.60
Bandelier	0.60	0.98	1.02	0.87	1.02
Black Canyon	0.67	0.64	0.77	0.69	0.77
Canyonlands	2.00	1.22	1.28	1.50	2.00
Capitol Reef	1.31	0.41	0.55	0.76	1.31
Grand Canyon	0.56	0.41	0.31	0.43	0.56
Great Sand Dunes	0.35	0.39	0.31	0.35	0.39
La Garita	0.49	0.49	0.52	0.50	0.52
Maroon Bells	0.28	0.27	0.28	0.28	0.28
Mesa Verde	3.03	3.51	2.91	3.15	3.51
Pecos	0.53	0.65	0.76	0.65	0.76
Petrified Forest	0.45	0.27	0.25	0.32	0.45
San Pedro	1.24	1.48	1.27	1.33	1.48
West Elk	0.46	0.49	0.43	0.46	0.49
Weminuche	0.70	1.03	0.81	0.85	1.03
Wheeler Peak	0.45	0.46	0.42	0.44	0.46
Overall				**0.86**	**3.51**

Table 38 Baseline (Consent Decree) Visibility Modeling Results - Unit 4 Constant Ammonia Background and Nitrate Repartitioning 98th Percentile for Each Year (dv)					
Class I Area	2001	2002	2003	Average	Maximum
Arches	1.31	0.88	0.82	1.00	1.31
Bandelier	0.42	0.73	0.75	0.63	0.75
Black Canyon	0.48	0.51	0.60	0.53	0.60
Canyonlands	1.66	1.11	1.04	1.27	1.66
Capitol Reef	0.99	0.27	0.41	0.56	0.99
Grand Canyon	0.43	0.30	0.22	0.32	0.43
Great Sand Dunes	0.27	0.26	0.23	0.25	0.27
La Garita	0.35	0.35	0.37	0.36	0.37
Maroon Bells	0.22	0.21	0.21	0.21	0.22
Mesa Verde	2.39	2.82	2.34	2.52	2.82
Pecos	0.38	0.47	0.54	0.46	0.54
Petrified Forest	0.31	0.20	0.19	0.23	0.31
San Pedro	0.94	1.11	1.00	1.02	1.11
West Elk	0.36	0.38	0.36	0.37	0.38
Weminuche	0.51	0.70	0.58	0.60	0.70
Wheeler Peak	0.30	0.34	0.33	0.32	0.34
Overall				**0.67**	**2.82**

Table 39 SNCR Visibility Modeling Results - Unit 4 Constant Ammonia Background and Nitrate Repartitioning 98th Percentile Impact for Each Year (dv)					
Class I Area	2001	2002	2003	Average	Maximum
Arches	1.04	0.70	0.66	0.80	1.04
Bandelier	0.35	0.60	0.60	0.52	0.60
Black Canyon	0.39	0.40	0.48	0.42	0.48
Canyonlands	1.33	0.89	0.83	1.02	1.33
Capitol Reef	0.79	0.25	0.35	0.46	0.79
Grand Canyon	0.35	0.25	0.19	0.26	0.35
Great Sand Dunes	0.22	0.20	0.18	0.20	0.22
La Garita	0.28	0.28	0.31	0.29	0.31
Maroon Bells	0.17	0.17	0.17	0.17	0.17
Mesa Verde	2.08	2.35	2.01	2.15	2.35
Pecos	0.32	0.39	0.46	0.39	0.46
Petrified Forest	0.31	0.17	0.19	0.22	0.31
San Pedro	0.94	0.90	1.00	0.94	1.00
West Elk	0.28	0.31	0.29	0.29	0.31
Weminuche	0.42	0.56	0.51	0.50	0.56
Wheeler Peak	0.28	0.28	0.27	0.28	0.28
Overall				**0.56**	**2.35**

Table 40
Unit 4 Visibility Improvement Cost Effectiveness for Each Class 1 Area (Based on Maximum Visibility Modeling Results)
Constant Ammonia Background and Nitrate Repartitioning

	Maximum Visibility Modeling Results (dv) (98th Percentile, see Note 1)			Visibility Improvements (dv) Calculated from Maximum Visibility Results (for each Class 1 Area)			Improvement ($/dv) (see Note 4)		
Class 1 Area	Pre-Consent Decree	Consent Decree	SNCR	Pre-Consent Decree to Consent Decree	Consent Decree to SNCR	Pre-Consent Decree to SNCR	Pre-Consent Decree to Consent Decree	Consent Decree to SNCR	Pre-Consent Decree to SNCR
Arches	1.60	1.31	1.04	0.29	0.27	0.56	47,527,586	17,278,195	33,055,755
Bandelier	1.02	0.75	0.60	0.27	0.15	0.42	51,048,148	31,479,452	44,180,288
Black Canyon	0.77	0.60	0.48	0.17	0.12	0.29	81,076,471	39,620,690	64,262,238
Canyonlands	2.00	1.66	1.33	0.34	0.33	0.67	40,538,235	13,927,273	27,431,343
Capitol Reef	1.31	0.99	0.79	0.32	0.20	0.52	43,071,875	22,865,672	35,276,392
Grand Canyon	0.56	0.43	0.35	0.13	0.09	0.22	106,023,077	54,070,588	85,483,721
Great Sand Dunes	0.39	0.27	0.22	0.12	0.05	0.17	114,858,333	90,117,647	107,479,532
La Garita	0.52	0.37	0.31	0.15	0.06	0.21	91,886,667	72,952,381	86,286,385
Maroon Bells	0.28	0.22	0.17	0.06	0.05	0.11	229,716,667	93,795,918	168,614,679
Mesa Verde	3.51	2.82	2.35	0.69	0.47	1.16	19,975,362	9,841,542	15,885,048
Pecos	0.76	0.54	0.46	0.22	0.09	0.31	62,650,000	54,070,588	60,259,016
Petrified Forest	0.45	0.31	0.31	0.14	0.00	0.14	98,450,000	4,596,000,000	130,347,518
San Pedro	1.48	1.11	1.00	0.37	0.11	0.48	37,251,351	40,315,789	37,973,140
West Elk	0.49	0.38	0.31	0.11	0.07	0.18	125,300,000	62,958,904	100,431,694
Weminuche	1.03	0.70	0.56	0.33	0.14	0.47	41,766,667	32,595,745	39,021,231
Wheeler Peak	0.46	0.34	0.28	0.12	0.06	0.18	114,858,333	79,241,379	103,252,809

Notes:

1. Maximum of 2001, 2002 and 2003 visibility data.
2. NI = No Improvement
3. NA = Not Applicable
4. Total Annualized Costs used in calculating Improvement are as follows (in $1,000):

Pre-Consent Decree to Consent Decree	$13,783
Consent Decree to SNCR	$4,596
Pre-Consent Decree to SNCR	$18,379

PNM SJGS BART Modeling
Nitrate Repartitioning - Monthly Varying NH3 Background
2001

Pre-Consent Decree (4)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	59	1.92	71.14	23.07	1.46	0.89	1.08	2.36	100
BAND	70	1.31	35.48	59.51	1.32	0.81	0.83	2.06	100
BLCA	40	1.14	52.26	45.03	0.71	0.44	0.43	1.13	100
CANY	80	2.59	65.05	28.99	1.51	0.92	1.08	2.44	100
CARE	31	1.97	51.54	43.71	1.15	0.71	1.06	1.83	100
GRCA	14	1.14	42.20	54.25	0.90	0.55	0.65	1.45	100
GRSA	23	0.85	77.31	14.03	2.38	1.46	1.09	3.75	100
LAGA	35	1.15	42.48	54.54	0.77	0.47	0.50	1.24	100
MABE	16	0.67	41.50	54.30	1.08	0.66	0.76	1.70	100
MEVE	184	4.20	84.29	1.94	3.21	1.97	3.57	5.03	100
PECO	53	1.40	43.19	52.60	1.08	0.66	0.76	1.71	100
PEFO	18	1.13	84.94	9.80	1.30	0.79	1.11	2.06	100
SAPE	111	1.78	79.88	8.73	2.70	1.65	2.83	4.20	100
WEEL	34	0.99	40.76	54.57	1.20	0.73	0.85	1.89	100
WEMI	74	1.51	26.70	66.76	1.53	0.94	1.66	2.40	100
WHPE	37	1.00	32.06	63.10	1.28	0.78	0.76	2.02	100

Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	47	1.69	33.57	62.13	1.88	0.48	0.48	1.46	100
BAND	49	1.04	30.40	66.83	1.26	0.32	0.23	0.97	100
BLCA	26	0.95	37.13	57.66	2.28	0.58	0.58	1.76	100
CANY	67	2.26	55.66	38.57	2.53	0.65	0.62	1.98	100
CARE	28	1.81	52.95	42.68	1.91	0.49	0.48	1.49	100
GRCA	12	0.97	38.14	59.75	0.93	0.24	0.19	0.75	100
GRSA	14	0.63	38.82	54.18	3.18	0.81	0.53	2.47	100
LAGA	20	0.86	38.38	59.80	0.81	0.21	0.15	0.65	100
MABE	10	0.54	69.46	25.41	2.29	0.59	0.43	1.83	100
MEVE	157	3.38	75.39	9.84	6.26	1.60	2.09	4.82	100
PECO	35	1.05	80.51	15.41	1.83	0.47	0.36	1.43	100
PEFO	14	0.82	27.95	69.41	1.18	0.30	0.25	0.92	100
SAPE	93	1.40	39.89	53.93	2.71	0.69	0.68	2.09	100
WEEL	19	0.80	37.76	60.62	0.70	0.18	0.19	0.55	100
WEMI	53	1.15	28.74	65.59	2.44	0.62	0.72	1.88	100
WHPE	27	0.75	30.82	66.18	1.36	0.35	0.23	1.06	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	45	1.61	72.40	20.28	3.26	0.83	0.54	2.69	100
BAND	43	0.92	41.86	53.84	1.89	0.48	0.45	1.47	100
BLCA	20	0.84	53.16	42.04	2.12	0.54	0.45	1.69	100
CANY	63	2.15	73.09	23.31	1.59	0.41	0.34	1.26	100
CARE	27	1.64	58.97	36.17	2.13	0.54	0.53	1.66	100
GRCA	11	0.85	43.66	53.93	1.07	0.27	0.22	0.86	100
GRSA	10	0.58	81.57	12.19	2.87	0.73	0.39	2.24	100
LAGA	14	0.76	32.46	62.80	2.10	0.54	0.47	1.63	100
MABE	8	0.51	45.12	51.36	1.58	0.40	0.28	1.25	100
MEVE	153	3.36	76.09	9.01	6.32	1.61	2.11	4.87	100
PECO	30	0.90	48.12	48.79	1.38	0.35	0.27	1.08	100
PEFO	13	0.77	88.28	8.12	1.57	0.40	0.38	1.24	100
SAPE	85	1.31	76.57	16.80	2.87	0.73	0.83	2.21	100
WEEL	16	0.74	86.35	7.65	2.68	0.68	0.49	2.14	100
WEMI	44	1.03	90.40	1.92	3.41	0.87	0.73	2.66	100
WHPE	20	0.68	80.74	13.39	2.64	0.67	0.50	2.06	100

PNM SJGS BART Modeling
Nitrate Repartitioning - Monthly Varying NH3 Background
2002

Pre-Consent Decree (4)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	46	1.76	43.87	46.41	2.37	1.45	2.20	3.70	100
BAND	87	1.86	44.28	49.89	1.45	0.89	1.18	2.31	100
BLCA	54	1.34	35.37	59.23	1.36	0.83	1.04	2.17	100
CANY	67	2.04	83.50	1.79	3.67	2.25	3.05	5.74	100
CARE	24	1.16	33.88	63.47	0.67	0.41	0.49	1.09	100
GRCA	15	0.93	89.85	2.03	2.09	1.28	1.45	3.30	100
GRSA	28	1.00	82.39	12.99	1.20	0.73	0.78	1.90	100
LAGA	63	1.30	81.37	13.32	1.40	0.86	0.81	2.24	100
MABE	20	0.78	28.96	63.27	2.15	1.32	0.80	3.49	100
MEVE	184	4.09	34.40	60.73	1.18	0.72	1.11	1.87	100
PECO	62	1.33	53.02	40.33	1.81	1.11	0.89	2.85	100
PEFO	16	0.79	90.95	1.94	1.81	1.11	1.31	2.89	100
SAPE	125	2.37	71.74	23.38	1.23	0.75	0.94	1.96	100
WEEL	43	1.15	35.15	60.78	1.03	0.63	0.76	1.65	100
WEMI	117	1.85	57.89	29.83	2.89	1.77	3.13	4.49	100
WHPE	40	0.95	55.69	38.20	1.67	1.02	0.74	2.67	100

Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	32	1.65	49.70	47.38	1.28	0.33	0.30	1.01	100
BAND	61	1.56	37.39	59.91	1.19	0.30	0.27	0.93	100
BLCA	30	1.15	31.11	65.99	1.28	0.33	0.28	1.02	100
CANY	57	1.73	52.51	43.96	1.55	0.40	0.35	1.23	100
CARE	18	0.82	91.30	1.66	3.11	0.79	0.69	2.46	100
GRCA	10	0.76	44.30	54.26	0.64	0.16	0.12	0.52	100
GRSA	17	0.71	28.48	69.87	0.74	0.19	0.13	0.60	100
LAGA	40	0.94	26.32	71.29	1.07	0.27	0.22	0.84	100
MABE	11	0.56	84.39	12.71	1.31	0.33	0.23	1.03	100
MEVE	162	3.53	85.08	5.44	4.14	1.06	1.04	3.24	100
PECO	41	1.09	41.87	56.64	0.66	0.17	0.13	0.53	100
PEFO	9	0.60	28.65	69.64	0.76	0.19	0.13	0.62	100
SAPE	109	2.01	46.15	47.36	2.82	0.72	0.76	2.19	100
WEEL	24	0.91	30.66	67.44	0.86	0.22	0.14	0.68	100
WEMI	83	1.48	57.20	35.77	3.02	0.77	0.91	2.32	100
WHPE	20	0.86	47.51	47.27	2.35	0.60	0.43	1.84	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	30	1.50	40.60	54.00	2.36	0.60	0.61	1.83	100
BAND	50	1.37	40.97	52.37	2.93	0.75	0.72	2.26	100
BLCA	27	1.00	39.08	58.62	1.04	0.27	0.17	0.82	100
CANY	50	1.61	44.41	50.77	2.07	0.53	0.61	1.60	100
CARE	13	0.72	39.07	58.93	0.88	0.22	0.18	0.71	100
GRCA	10	0.65	51.96	46.35	0.75	0.19	0.14	0.61	100
GRSA	10	0.62	34.26	61.88	1.73	0.44	0.32	1.36	100
LAGA	23	0.80	33.16	60.81	2.68	0.69	0.60	2.07	100
MABE	6	0.48	35.17	62.26	1.14	0.29	0.23	0.91	100
MEVE	157	3.22	78.22	10.20	4.95	1.26	1.53	3.83	100
PECO	35	0.94	49.33	48.91	0.78	0.20	0.15	0.62	100
PEFO	8	0.54	93.61	1.55	2.15	0.55	0.44	1.70	100
SAPE	97	1.80	40.29	54.47	2.29	0.58	0.58	1.79	100
WEEL	20	0.77	41.97	52.50	2.48	0.63	0.47	1.94	100
WEMI	62	1.35	39.83	58.09	0.91	0.23	0.23	0.71	100
WHPE	17	0.77	37.84	60.45	0.76	0.19	0.15	0.61	100

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Pre-Consent Decree (4)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	39	1.82	38.16	50.64	2.67	1.63	2.75	4.15	100
BAND	77	1.51	40.84	49.83	2.33	1.43	1.94	3.63	100
BLCA	30	1.40	29.26	67.79	0.76	0.46	0.52	1.21	100
CANY	57	2.00	64.92	31.30	0.94	0.58	0.72	1.53	100
CARE	25	1.34	43.68	49.81	1.57	0.96	1.51	2.47	100
GRCA	11	0.81	91.83	0.94	1.83	1.12	1.34	2.94	100
GRSA	26	0.82	50.03	45.62	1.12	0.68	0.79	1.76	100
LAGA	40	1.14	25.27	67.60	2.02	1.24	0.66	3.22	100
MABE	15	0.63	36.60	57.88	1.53	0.94	0.65	2.41	100
MEVE	174	4.85	69.32	17.06	3.27	2.00	3.22	5.14	100
PECO	63	1.26	49.00	43.40	1.87	1.15	1.66	2.93	100
PEFO	17	0.74	88.02	6.36	1.46	0.90	0.89	2.36	100
SAPE	127	1.96	80.84	9.41	2.36	1.45	2.22	3.73	100
WEEL	31	0.94	25.57	71.56	0.70	0.43	0.61	1.12	100
WEMI	87	1.69	40.63	54.52	1.17	0.72	1.13	1.84	100
WHPE	48	1.05	48.42	48.68	0.78	0.48	0.39	1.25	100

Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	27	1.49	30.95	67.01	0.89	0.23	0.21	0.71	100
BAND	57	1.20	77.97	17.21	2.11	0.54	0.52	1.65	100
BLCA	21	1.07	27.98	70.17	0.82	0.21	0.17	0.65	100
CANY	48	1.68	70.45	24.81	2.07	0.53	0.49	1.65	100
CARE	23	1.05	52.60	45.24	0.94	0.24	0.20	0.77	100
GRCA	9	0.57	93.89	1.17	2.19	0.56	0.46	1.74	100
GRSA	15	0.64	27.42	70.94	0.76	0.19	0.09	0.60	100
LAGA	28	0.90	23.76	71.98	1.99	0.51	0.18	1.58	100
MABE	8	0.51	27.63	69.59	1.22	0.31	0.28	0.97	100
MEVE	159	3.80	41.19	53.18	2.41	0.62	0.72	1.88	100
PECO	50	1.00	51.25	46.75	0.89	0.23	0.18	0.70	100
PEFO	9	0.53	32.43	65.01	1.15	0.29	0.18	0.93	100
SAPE	97	1.56	37.04	56.49	2.78	0.71	0.83	2.15	100
WEEL	22	0.83	28.10	67.91	1.74	0.44	0.44	1.36	100
WEMI	63	1.34	36.23	61.45	1.00	0.26	0.29	0.77	100
WHPE	27	0.89	91.09	5.38	1.60	0.41	0.26	1.25	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	24	1.27	75.50	21.82	1.18	0.30	0.26	0.94	100
BAND	50	1.15	81.84	13.09	2.22	0.57	0.55	1.73	100
BLCA	18	0.97	45.30	50.29	1.92	0.49	0.49	1.51	100
CANY	44	1.61	73.72	21.32	2.17	0.55	0.51	1.73	100
CARE	22	1.00	48.93	48.71	1.03	0.26	0.24	0.82	100
GRCA	8	0.57	94.20	0.84	2.19	0.56	0.46	1.74	100
GRSA	11	0.52	55.69	41.08	1.44	0.37	0.30	1.13	100
LAGA	14	0.78	53.34	43.35	1.47	0.37	0.33	1.14	100
MABE	6	0.44	32.33	64.40	1.43	0.37	0.33	1.13	100
MEVE	156	3.58	82.03	0.93	7.25	1.85	2.36	5.58	100
PECO	41	0.91	73.33	23.52	1.42	0.36	0.24	1.12	100
PEFO	8	0.50	90.77	5.30	1.76	0.45	0.31	1.41	100
SAPE	90	1.48	84.06	9.18	2.93	0.75	0.79	2.29	100
WEEL	14	0.71	33.15	62.15	2.05	0.52	0.52	1.60	100
WEMI	56	1.16	36.56	60.24	1.42	0.36	0.29	1.12	100
WHPE	22	0.75	29.49	65.94	2.03	0.52	0.44	1.59	100

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Pre-Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	16	0.82	25.92	68.87	1.30	0.79	1.06	2.06	100
BAND	1	0.31	41.96	53.16	1.24	0.75	0.94	1.95	100
BLCA	2	0.35	31.77	66.43	0.47	0.29	0.29	0.75	100
CANY	28	1.10	43.62	52.48	0.91	0.55	1.03	1.41	100
CARE	12	0.76	26.38	71.01	0.64	0.38	0.58	1.01	100
GRCA	5	0.31	31.06	66.09	0.72	0.44	0.52	1.17	100
GRSA	0	0.18	87.77	6.73	1.38	0.83	1.12	2.17	100
LAGA	1	0.26	36.35	60.88	0.72	0.44	0.46	1.16	100
MABE	0	0.18	23.69	72.07	1.08	0.65	0.82	1.69	100
MEVE	55	1.51	47.09	35.97	3.88	2.35	4.67	6.04	100
PECO	2	0.29	24.39	68.71	1.72	1.04	1.48	2.67	100
PEFO	2	0.25	84.76	11.37	0.99	0.60	0.69	1.59	100
SAPE	10	0.61	26.56	68.07	1.32	0.80	1.20	2.05	100
WEEL	2	0.27	31.55	66.50	0.52	0.31	0.29	0.82	100
WEMI	3	0.37	22.71	69.34	1.89	1.14	1.99	2.93	100
WHPE	2	0.24	27.68	69.49	0.76	0.46	0.42	1.20	100

Baseline - Consent Decree (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	14	0.69	25.34	71.69	1.31	0.33	0.31	1.03	100
BAND	1	0.24	43.57	53.42	1.34	0.34	0.29	1.04	100
BLCA	2	0.29	23.45	74.26	0.99	0.25	0.26	0.78	100
CANY	22	1.00	38.19	59.52	1.01	0.26	0.23	0.80	100
CARE	11	0.57	26.93	71.52	0.67	0.17	0.17	0.53	100
GRCA	4	0.27	30.85	67.43	0.76	0.19	0.15	0.61	100
GRSA	0	0.14	21.45	76.75	0.80	0.20	0.17	0.63	100
LAGA	0	0.19	28.88	69.14	0.89	0.23	0.16	0.70	100
MABE	0	0.14	20.45	75.64	1.73	0.44	0.40	1.34	100
MEVE	38	1.35	35.69	59.62	2.00	0.51	0.63	1.55	100
PECO	1	0.23	25.62	70.23	1.82	0.47	0.44	1.41	100
PEFO	2	0.19	25.42	72.19	1.06	0.27	0.23	0.84	100
SAPE	7	0.44	27.36	69.47	1.39	0.36	0.35	1.08	100
WEEL	0	0.22	33.65	63.73	1.17	0.30	0.22	0.93	100
WEMI	2	0.31	30.63	61.38	3.48	0.89	0.91	2.70	100
WHPE	2	0.19	28.38	69.83	0.81	0.21	0.13	0.64	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	12	0.58	30.49	65.93	1.57	0.40	0.37	1.24	100
BAND	1	0.20	31.68	64.38	1.80	0.46	0.29	1.40	100
BLCA	1	0.23	29.45	67.68	1.25	0.32	0.33	0.98	100
CANY	20	0.87	42.24	55.66	0.93	0.24	0.20	0.74	100
CARE	7	0.46	33.38	64.70	0.83	0.21	0.21	0.66	100
GRCA	2	0.22	37.68	60.22	0.93	0.24	0.19	0.75	100
GRSA	0	0.12	80.37	13.49	2.82	0.72	0.39	2.21	100
LAGA	0	0.16	32.01	63.24	2.11	0.54	0.47	1.64	100
MABE	0	0.11	25.74	69.34	2.18	0.56	0.50	1.69	100
MEVE	31	1.19	33.44	64.17	1.02	0.26	0.32	0.79	100
PECO	0	0.19	33.00	64.36	1.19	0.30	0.22	0.93	100
PEFO	1	0.17	33.24	64.57	0.95	0.24	0.26	0.74	100
SAPE	6	0.36	33.46	62.66	1.70	0.44	0.42	1.32	100
WEEL	0	0.18	40.97	55.84	1.43	0.36	0.27	1.13	100
WEMI	2	0.25	30.21	64.02	2.49	0.64	0.72	1.93	100
WHPE	1	0.16	44.25	53.24	1.14	0.29	0.19	0.89	100

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Pre-Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	11	0.68	24.06	72.39	0.91	0.55	0.63	1.46	100
BAND	7	0.49	50.26	40.84	2.33	1.41	1.50	3.66	100
BLCA	4	0.37	19.24	76.63	0.99	0.60	0.99	1.55	100
CANY	16	0.84	30.14	66.46	0.85	0.51	0.67	1.36	100
CARE	4	0.23	29.36	68.45	0.54	0.33	0.45	0.87	100
GRCA	1	0.21	42.87	54.86	0.58	0.35	0.37	0.97	100
GRSA	0	0.20	27.46	69.95	0.68	0.41	0.39	1.10	100
LAGA	0	0.28	23.68	72.69	0.93	0.56	0.66	1.48	100
MABE	0	0.16	27.20	65.28	2.09	1.27	0.76	3.40	100
MEVE	73	1.79	37.50	56.98	1.29	0.78	1.40	2.05	100
PECO	3	0.31	38.08	53.60	2.22	1.34	1.25	3.51	100
PEFO	2	0.16	28.11	69.15	0.71	0.43	0.44	1.17	100
SAPE	27	0.73	26.46	67.64	1.45	0.88	1.29	2.29	100
WEEL	1	0.28	23.98	70.42	1.36	0.82	1.31	2.11	100
WEMI	9	0.54	43.96	46.81	2.18	1.32	2.34	3.39	100
WHPE	0	0.25	30.07	67.71	0.57	0.35	0.39	0.92	100

Baseline - Consent Decree (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	9	0.54	23.97	72.89	1.37	0.35	0.35	1.07	100
BAND	4	0.40	31.04	66.80	0.95	0.24	0.22	0.75	100
BLCA	1	0.29	25.16	72.63	0.98	0.25	0.20	0.78	100
CANY	13	0.65	23.43	73.82	1.20	0.31	0.31	0.94	100
CARE	3	0.18	31.45	66.94	0.71	0.18	0.15	0.57	100
GRCA	1	0.16	43.73	54.87	0.62	0.16	0.11	0.51	100
GRSA	0	0.14	27.52	70.87	0.72	0.19	0.12	0.58	100
LAGA	0	0.21	25.77	71.45	1.20	0.31	0.33	0.94	100
MABE	0	0.12	26.89	71.16	0.87	0.22	0.16	0.69	100
MEVE	52	1.40	60.18	31.05	3.70	0.95	1.26	2.86	100
PECO	3	0.24	40.91	57.63	0.65	0.17	0.13	0.52	100
PEFO	0	0.13	28.41	69.90	0.75	0.19	0.13	0.62	100
SAPE	16	0.59	26.83	69.85	1.45	0.37	0.35	1.14	100
WEEL	0	0.20	24.64	72.13	1.40	0.36	0.38	1.09	100
WEMI	6	0.43	24.32	73.64	0.90	0.23	0.19	0.72	100
WHPE	0	0.17	31.55	67.09	0.60	0.15	0.12	0.49	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	5	0.44	29.61	66.50	1.70	0.43	0.43	1.32	100
BAND	4	0.33	37.84	59.53	1.15	0.30	0.27	0.91	100
BLCA	0	0.23	31.64	65.58	1.23	0.31	0.25	0.98	100
CANY	9	0.53	29.21	67.36	1.49	0.38	0.39	1.17	100
CARE	1	0.15	38.51	59.52	0.86	0.22	0.18	0.70	100
GRCA	0	0.14	51.64	46.71	0.73	0.19	0.13	0.60	100
GRSA	0	0.13	34.43	61.81	1.69	0.43	0.31	1.33	100
LAGA	0	0.17	31.97	64.58	1.49	0.38	0.41	1.16	100
MABE	0	0.10	34.91	59.18	2.72	0.70	0.28	2.21	100
MEVE	45	1.24	57.38	30.54	5.12	1.31	1.69	3.95	100
PECO	1	0.21	49.72	46.50	1.68	0.43	0.35	1.33	100
PEFO	0	0.11	34.26	63.03	1.21	0.31	0.19	1.00	100
SAPE	7	0.48	33.05	62.86	1.79	0.46	0.44	1.41	100
WEEL	0	0.16	30.57	65.44	1.74	0.45	0.47	1.35	100
WEMI	1	0.36	52.83	41.13	2.59	0.66	0.78	2.01	100
WHPE	0	0.14	38.69	59.63	0.74	0.19	0.15	0.60	100

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Pre-Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	9	0.60	28.75	65.62	1.35	0.81	1.33	2.14	100
BAND	8	0.54	22.07	72.47	1.34	0.81	1.23	2.09	100
BLCA	2	0.38	34.19	62.97	0.72	0.43	0.54	1.15	100
CANY	14	0.71	29.97	59.10	2.54	1.54	2.91	3.94	100
CARE	3	0.32	86.40	1.13	3.02	1.83	2.88	4.74	100
GRCA	0	0.16	51.56	42.85	1.42	0.86	1.00	2.30	100
GRSA	1	0.17	19.79	77.41	0.69	0.42	0.59	1.10	100
LAGA	2	0.29	36.29	60.25	0.89	0.54	0.59	1.44	100
MABE	0	0.16	31.87	65.36	0.70	0.42	0.53	1.12	100
MEVE	60	1.67	38.31	45.74	3.66	2.22	4.38	5.69	100
PECO	3	0.35	51.53	42.28	1.61	0.98	1.01	2.59	100
PEFO	0	0.14	31.20	64.81	1.05	0.64	0.58	1.73	100
SAPE	13	0.63	34.16	60.15	1.34	0.81	1.43	2.10	100
WEEL	0	0.25	23.83	70.37	1.42	0.86	1.27	2.25	100
WEMI	4	0.45	21.90	69.56	2.19	1.33	1.52	3.49	100
WHPE	1	0.26	22.07	72.11	1.47	0.89	1.11	2.34	100

Baseline - Consent Decree (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	9	0.52	29.53	67.07	1.47	0.38	0.40	1.16	100
BAND	3	0.37	23.82	72.96	1.41	0.36	0.36	1.10	100
BLCA	0	0.28	25.40	72.77	0.80	0.20	0.19	0.64	100
CANY	12	0.57	38.31	60.22	0.65	0.17	0.14	0.52	100
CARE	2	0.23	31.26	65.22	1.53	0.39	0.39	1.20	100
GRCA	0	0.12	52.37	44.18	1.52	0.39	0.31	1.22	100
GRSA	1	0.14	27.01	70.46	1.12	0.29	0.22	0.89	100
LAGA	0	0.21	20.74	75.52	1.71	0.44	0.17	1.41	100
MABE	0	0.11	33.14	63.55	1.53	0.39	0.19	1.20	100
MEVE	48	1.27	41.93	48.61	4.01	1.03	1.33	3.10	100
PECO	1	0.27	46.70	51.27	0.91	0.23	0.15	0.73	100
PEFO	0	0.11	31.59	65.92	1.12	0.29	0.18	0.91	100
SAPE	7	0.50	26.74	68.42	2.08	0.53	0.62	1.61	100
WEEL	0	0.20	20.88	76.49	1.15	0.30	0.29	0.90	100
WEMI	3	0.35	45.71	42.80	4.96	1.27	1.43	3.84	100
WHPE	0	0.20	22.74	73.74	1.56	0.40	0.34	1.23	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	6	0.45	58.05	39.91	0.90	0.23	0.19	0.72	100
BAND	1	0.30	29.57	66.43	1.75	0.45	0.44	1.36	100
BLCA	0	0.23	31.76	65.95	1.00	0.26	0.23	0.80	100
CANY	7	0.49	57.57	40.40	0.89	0.23	0.19	0.72	100
CARE	2	0.21	94.25	1.16	2.01	0.51	0.47	1.60	100
GRCA	0	0.12	94.04	1.01	2.19	0.56	0.45	1.75	100
GRSA	0	0.12	33.39	63.49	1.39	0.36	0.27	1.11	100
LAGA	0	0.17	42.31	54.78	1.28	0.33	0.31	1.00	100
MABE	0	0.09	40.33	55.64	1.86	0.48	0.23	1.46	100
MEVE	43	1.13	47.22	42.12	4.52	1.16	1.50	3.49	100
PECO	1	0.23	60.82	34.74	1.99	0.51	0.36	1.59	100
PEFO	0	0.10	90.57	5.52	1.74	0.45	0.32	1.40	100
SAPE	5	0.43	32.86	61.98	2.22	0.57	0.65	1.72	100
WEEL	0	0.17	43.51	54.53	0.86	0.22	0.20	0.69	100
WEMI	2	0.30	30.17	62.47	3.19	0.82	0.87	2.48	100
WHPE	0	0.18	42.56	55.63	0.80	0.20	0.17	0.64	100

PNM SJGS BART Modeling - Unit 2
Nitrate Repartitioning - Monthly Varying NH3 Background
2001

Pre-Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	16	0.83	25.00	69.90	1.28	0.78	1.04	2.02	100
BAND	1	0.32	25.12	71.09	1.01	0.61	0.61	1.57	100
BLCA	3	0.36	23.37	71.60	1.28	0.78	0.99	1.98	100
CANY	27	1.07	40.57	55.69	0.86	0.53	1.00	1.35	100
CARE	12	0.78	25.24	72.22	0.62	0.38	0.56	0.99	100
GRCA	5	0.31	29.84	67.36	0.71	0.43	0.51	1.15	100
GRSA	0	0.19	32.82	57.23	2.66	1.62	1.52	4.16	100
LAGA	0	0.26	34.98	62.29	0.71	0.43	0.46	1.14	100
MABE	0	0.18	19.11	76.53	1.10	0.67	0.86	1.73	100
MEVE	56	1.49	45.92	37.44	3.81	2.32	4.60	5.92	100
PECO	2	0.29	84.16	9.33	1.63	0.99	1.33	2.56	100
PEFO	2	0.25	23.63	72.55	0.97	0.59	0.72	1.54	100
SAPE	11	0.63	25.41	69.31	1.29	0.79	1.19	2.01	100
WEEL	1	0.27	30.10	67.99	0.51	0.31	0.29	0.80	100
WEMI	3	0.38	31.78	59.74	2.05	1.25	1.98	3.19	100
WHPE	2	0.24	26.23	70.99	0.74	0.45	0.42	1.17	100

Baseline - Consent Decree (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	14	0.69	25.31	71.71	1.31	0.34	0.31	1.02	100
BAND	1	0.23	43.57	53.42	1.34	0.34	0.29	1.03	100
BLCA	2	0.28	23.45	74.26	1.00	0.26	0.26	0.77	100
CANY	22	0.99	38.13	59.58	1.01	0.26	0.23	0.80	100
CARE	10	0.57	26.92	71.52	0.68	0.17	0.17	0.53	100
GRCA	4	0.27	30.84	67.43	0.76	0.20	0.15	0.61	100
GRSA	0	0.14	21.45	76.75	0.80	0.21	0.17	0.62	100
LAGA	0	0.19	28.87	69.14	0.89	0.23	0.16	0.70	100
MABE	0	0.14	20.45	75.64	1.74	0.44	0.40	1.33	100
MEVE	38	1.35	35.54	59.78	2.00	0.51	0.63	1.53	100
PECO	1	0.23	25.62	70.23	1.83	0.47	0.44	1.40	100
PEFO	2	0.19	25.42	72.18	1.07	0.27	0.23	0.83	100
SAPE	7	0.44	27.35	69.47	1.40	0.36	0.35	1.07	100
WEEL	0	0.22	33.65	63.72	1.18	0.30	0.22	0.92	100
WEMI	2	0.31	30.63	61.38	3.50	0.90	0.91	2.69	100
WHPE	2	0.18	28.38	69.83	0.82	0.21	0.13	0.64	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	12	0.57	30.47	65.95	1.58	0.40	0.37	1.23	100
BAND	1	0.20	31.69	64.37	1.81	0.46	0.29	1.39	100
BLCA	1	0.23	29.45	67.67	1.25	0.32	0.33	0.97	100
CANY	20	0.87	42.22	55.67	0.93	0.24	0.20	0.74	100
CARE	7	0.46	33.38	64.70	0.84	0.21	0.21	0.66	100
GRCA	2	0.22	37.68	60.22	0.93	0.24	0.19	0.75	100
GRSA	0	0.12	42.29	50.10	3.47	0.89	0.57	2.68	100
LAGA	0	0.16	32.01	63.23	2.12	0.54	0.47	1.63	100
MABE	0	0.11	25.74	69.33	2.19	0.56	0.50	1.68	100
MEVE	31	1.19	33.43	64.17	1.02	0.26	0.32	0.79	100
PECO	0	0.19	33.00	64.36	1.19	0.31	0.22	0.93	100
PEFO	1	0.17	33.24	64.56	0.95	0.24	0.26	0.74	100
SAPE	6	0.36	33.45	62.66	1.71	0.44	0.42	1.31	100
WEEL	0	0.18	40.97	55.84	1.43	0.37	0.27	1.12	100
WEMI	2	0.25	30.20	64.01	2.50	0.64	0.73	1.92	100
WHPE	1	0.16	44.25	53.24	1.14	0.29	0.19	0.89	100

PNM SJGS BART Modeling - Unit 2
Nitrate Repartitioning - Monthly Varying NH3 Background
2002

Pre-Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	11	0.64	26.15	67.85	1.45	0.89	1.39	2.27	100
BAND	7	0.50	48.55	42.63	2.30	1.40	1.49	3.62	100
BLCA	4	0.37	18.38	77.59	0.97	0.59	0.97	1.51	100
CANY	15	0.83	28.77	67.90	0.83	0.51	0.66	1.33	100
CARE	4	0.23	27.98	69.89	0.53	0.32	0.44	0.85	100
GRCA	1	0.20	40.86	56.90	0.57	0.35	0.37	0.95	100
GRSA	0	0.21	26.11	71.35	0.67	0.41	0.39	1.08	100
LAGA	0	0.29	22.65	73.82	0.90	0.55	0.64	1.44	100
MABE	0	0.16	26.26	66.39	2.05	1.25	0.74	3.32	100
MEVE	72	1.82	36.41	58.08	1.29	0.79	1.39	2.04	100
PECO	3	0.31	36.65	55.19	2.17	1.32	1.23	3.43	100
PEFO	2	0.16	26.72	70.61	0.69	0.42	0.43	1.13	100
SAPE	28	0.73	25.48	68.66	1.43	0.87	1.28	2.26	100
WEEL	1	0.29	22.95	71.57	1.32	0.81	1.29	2.06	100
WEMI	9	0.56	18.60	76.08	1.26	0.77	1.32	1.97	100
WHPE	0	0.26	28.49	69.36	0.55	0.33	0.38	0.89	100

Baseline - Consent Decree (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	9	0.54	23.96	72.89	1.38	0.35	0.35	1.07	100
BAND	4	0.40	31.03	66.81	0.95	0.24	0.22	0.74	100
BLCA	1	0.29	25.16	72.63	0.98	0.25	0.20	0.78	100
CANY	13	0.65	23.42	73.82	1.20	0.31	0.31	0.93	100
CARE	3	0.18	31.45	66.94	0.71	0.18	0.15	0.57	100
GRCA	1	0.16	43.73	54.87	0.62	0.16	0.11	0.51	100
GRSA	0	0.14	27.52	70.87	0.73	0.19	0.12	0.58	100
LAGA	0	0.21	25.77	71.45	1.21	0.31	0.33	0.93	100
MABE	0	0.11	26.89	71.16	0.88	0.22	0.16	0.69	100
MEVE	52	1.40	60.02	31.23	3.71	0.95	1.25	2.84	100
PECO	3	0.24	40.91	57.63	0.65	0.17	0.13	0.52	100
PEFO	0	0.13	28.41	69.90	0.75	0.19	0.13	0.61	100
SAPE	16	0.58	26.82	69.85	1.46	0.37	0.35	1.14	100
WEEL	0	0.20	24.64	72.13	1.41	0.36	0.38	1.08	100
WEMI	6	0.42	24.31	73.65	0.91	0.23	0.19	0.72	100
WHPE	0	0.17	31.55	67.09	0.61	0.16	0.12	0.48	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	5	0.44	29.61	66.50	1.70	0.44	0.43	1.32	100
BAND	4	0.33	37.84	59.53	1.16	0.30	0.27	0.91	100
BLCA	0	0.23	31.64	65.58	1.23	0.32	0.25	0.98	100
CANY	9	0.52	29.20	67.36	1.50	0.38	0.39	1.17	100
CARE	1	0.15	36.80	61.56	0.72	0.18	0.17	0.57	100
GRCA	0	0.14	51.64	46.70	0.73	0.19	0.13	0.60	100
GRSA	0	0.13	34.43	61.80	1.70	0.43	0.31	1.32	100
LAGA	0	0.17	31.97	64.58	1.50	0.38	0.41	1.15	100
MABE	0	0.10	34.91	59.18	2.74	0.70	0.28	2.19	100
MEVE	44	1.24	57.35	30.56	5.14	1.32	1.70	3.93	100
PECO	1	0.21	49.71	46.50	1.68	0.43	0.35	1.32	100
PEFO	0	0.11	34.26	63.03	1.22	0.31	0.19	0.99	100
SAPE	7	0.48	33.05	62.86	1.80	0.46	0.44	1.40	100
WEEL	0	0.16	30.56	65.43	1.75	0.45	0.47	1.34	100
WEMI	1	0.36	52.82	41.13	2.61	0.67	0.78	1.99	100
WHPE	0	0.14	38.69	59.63	0.75	0.19	0.15	0.59	100

PNM SJGS BART Modeling - Unit 2
Nitrate Repartitioning - Monthly Varying NH3 Background
2003

Pre-Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	9	0.58	26.09	65.91	1.91	1.16	1.95	2.97	100
BAND	8	0.54	21.18	73.48	1.31	0.80	1.19	2.04	100
BLCA	3	0.39	31.74	65.45	0.70	0.43	0.55	1.12	100
CANY	13	0.72	29.11	60.16	2.49	1.52	2.85	3.87	100
CARE	3	0.31	86.04	1.21	3.09	1.88	2.94	4.84	100
GRCA	0	0.16	49.96	44.45	1.42	0.86	1.00	2.29	100
GRSA	1	0.17	25.45	72.07	0.69	0.42	0.28	1.09	100
LAGA	1	0.29	19.38	74.87	1.61	0.98	0.49	2.66	100
MABE	0	0.16	31.67	65.36	0.73	0.45	0.63	1.16	100
MEVE	60	1.66	38.26	45.78	3.66	2.23	4.39	5.68	100
PECO	3	0.36	20.30	74.98	1.21	0.74	0.82	1.96	100
PEFO	0	0.14	69.40	24.51	1.58	0.96	0.97	2.58	100
SAPE	13	0.64	24.73	67.13	1.92	1.17	2.07	2.99	100
WEEL	0	0.26	22.86	71.46	1.39	0.85	1.25	2.20	100
WEMI	4	0.44	37.67	57.85	1.06	0.65	1.12	1.65	100
WHPE	1	0.26	32.19	65.39	0.61	0.37	0.45	0.98	100

Baseline - Consent Decree (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	9	0.52	29.52	67.08	1.47	0.38	0.40	1.15	100
BAND	3	0.37	23.81	72.96	1.42	0.36	0.36	1.09	100
BLCA	0	0.28	25.40	72.77	0.80	0.21	0.19	0.64	100
CANY	12	0.57	38.31	60.22	0.65	0.17	0.14	0.52	100
CARE	2	0.23	31.25	65.23	1.54	0.39	0.39	1.20	100
GRCA	0	0.12	52.36	44.18	1.53	0.39	0.31	1.22	100
GRSA	1	0.14	27.01	70.46	1.13	0.29	0.22	0.89	100
LAGA	0	0.21	20.74	75.52	1.72	0.44	0.17	1.40	100
MABE	0	0.11	33.14	63.55	1.54	0.39	0.19	1.19	100
MEVE	48	1.26	41.89	48.65	4.03	1.03	1.33	3.08	100
PECO	1	0.27	46.68	51.28	0.92	0.24	0.15	0.73	100
PEFO	0	0.11	72.61	23.59	1.70	0.44	0.30	1.37	100
SAPE	7	0.50	26.73	68.43	2.09	0.53	0.62	1.60	100
WEEL	0	0.20	20.87	76.49	1.16	0.30	0.29	0.89	100
WEMI	3	0.35	45.70	42.79	4.98	1.28	1.43	3.82	100
WHPE	0	0.20	22.74	73.73	1.56	0.40	0.34	1.22	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	6	0.44	58.04	39.92	0.90	0.23	0.19	0.72	100
BAND	1	0.30	29.57	66.43	1.76	0.45	0.44	1.35	100
BLCA	0	0.22	31.76	65.95	1.01	0.26	0.23	0.79	100
CANY	6	0.48	57.56	40.42	0.90	0.23	0.19	0.72	100
CARE	2	0.21	94.24	1.16	2.02	0.52	0.47	1.59	100
GRCA	0	0.12	94.04	1.01	2.20	0.56	0.45	1.74	100
GRSA	0	0.12	33.39	63.49	1.39	0.36	0.27	1.10	100
LAGA	0	0.17	42.31	54.78	1.28	0.33	0.31	0.99	100
MABE	0	0.09	40.34	55.63	1.87	0.48	0.23	1.45	100
MEVE	43	1.13	47.19	42.16	4.53	1.16	1.50	3.47	100
PECO	1	0.23	60.82	34.73	2.00	0.51	0.36	1.58	100
PEFO	0	0.10	90.57	5.52	1.75	0.45	0.32	1.39	100
SAPE	5	0.43	32.82	62.02	2.23	0.57	0.65	1.71	100
WEEL	0	0.17	43.51	54.53	0.86	0.22	0.20	0.68	100
WEMI	2	0.30	30.17	62.46	3.20	0.82	0.88	2.47	100
WHPE	0	0.17	42.56	55.63	0.80	0.21	0.17	0.64	100

PNM SJGS BART Modeling - Unit 3
Nitrate Repartitioning - Monthly Varying NH3 Background
2001

Pre-Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	18	1.04	37.90	59.89	0.56	0.35	0.41	0.89	100
BAND	9	0.53	76.32	16.85	1.73	1.07	1.30	2.73	100
BLCA	10	0.58	27.65	66.71	1.42	0.87	1.14	2.21	100
CANY	35	1.44	35.63	61.86	0.63	0.39	0.48	1.02	100
CARE	17	1.10	29.96	67.35	0.65	0.40	0.61	1.03	100
GRCA	7	0.48	30.18	67.22	0.65	0.40	0.53	1.03	100
GRSA	1	0.28	76.24	15.49	2.27	1.39	1.03	3.58	100
LAGA	4	0.40	39.72	57.57	0.70	0.43	0.45	1.13	100
MABE	1	0.24	35.97	61.92	0.56	0.35	0.32	0.89	100
MEVE	100	1.92	53.68	38.69	1.83	1.12	1.82	2.86	100
PECO	6	0.48	51.34	44.27	1.13	0.69	0.80	1.77	100
PEFO	5	0.43	86.46	10.06	0.89	0.55	0.62	1.42	100
SAPE	31	0.88	30.39	63.58	1.46	0.90	1.41	2.26	100
WEEL	6	0.38	37.70	56.66	1.47	0.91	0.92	2.33	100
WEMI	9	0.59	26.83	67.21	1.46	0.90	1.33	2.28	100
WHPE	5	0.37	29.53	67.67	0.74	0.45	0.44	1.17	100

Baseline - Consent Decree (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	18	0.89	35.30	62.84	0.82	0.21	0.17	0.66	100
BAND	3	0.39	26.98	70.54	1.12	0.28	0.21	0.87	100
BLCA	4	0.44	25.68	71.04	1.46	0.37	0.33	1.12	100
CANY	29	1.15	32.46	66.00	0.68	0.17	0.15	0.54	100
CARE	14	0.86	26.87	71.56	0.68	0.17	0.18	0.54	100
GRCA	5	0.35	27.44	70.95	0.71	0.18	0.17	0.56	100
GRSA	0	0.21	36.16	57.33	2.97	0.75	0.50	2.30	100
LAGA	1	0.29	25.67	70.62	1.64	0.42	0.37	1.27	100
MABE	0	0.20	33.23	64.11	1.21	0.30	0.21	0.95	100
MEVE	64	1.56	52.43	37.30	4.36	1.10	1.46	3.35	100
PECO	3	0.35	87.02	9.06	1.73	0.44	0.41	1.34	100
PEFO	2	0.29	85.92	11.67	1.07	0.27	0.21	0.85	100
SAPE	18	0.70	27.84	68.80	1.47	0.37	0.39	1.13	100
WEEL	4	0.30	34.05	62.90	1.38	0.35	0.24	1.08	100
WEMI	6	0.44	21.26	75.66	1.32	0.33	0.40	1.03	100
WHPE	2	0.28	27.58	70.65	0.80	0.20	0.14	0.63	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	17	0.79	40.17	57.68	0.95	0.24	0.20	0.76	100
BAND	1	0.32	30.96	65.01	1.85	0.47	0.30	1.42	100
BLCA	3	0.36	31.46	64.52	1.79	0.45	0.41	1.37	100
CANY	27	1.01	49.69	47.77	1.08	0.27	0.35	0.83	100
CARE	12	0.71	33.00	65.07	0.84	0.21	0.22	0.66	100
GRCA	4	0.28	38.94	58.92	0.95	0.24	0.20	0.76	100
GRSA	0	0.18	80.39	13.47	2.83	0.71	0.39	2.21	100
LAGA	0	0.26	82.76	12.56	2.07	0.52	0.47	1.61	100
MABE	0	0.16	40.46	56.29	1.47	0.37	0.26	1.15	100
MEVE	57	1.50	75.56	6.27	7.69	1.94	2.65	5.89	100
PECO	2	0.29	37.38	59.81	1.31	0.33	0.16	1.02	100
PEFO	2	0.27	33.14	64.66	0.95	0.24	0.27	0.73	100
SAPE	10	0.59	33.16	62.84	1.75	0.44	0.47	1.34	100
WEEL	1	0.25	41.35	54.94	1.68	0.42	0.29	1.31	100
WEMI	2	0.36	31.69	63.95	1.91	0.48	0.50	1.47	100
WHPE	2	0.22	64.07	31.10	2.15	0.54	0.46	1.67	100

PNM SJGS BART Modeling - Unit 3
Nitrate Repartitioning - Monthly Varying NH3 Background
2002

Pre-Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	15	0.81	31.17	63.37	1.30	0.80	1.33	2.03	100
BAND	20	0.81	28.33	63.99	1.89	1.16	1.69	2.94	100
BLCA	9	0.53	21.84	73.75	1.06	0.65	1.04	1.65	100
CANY	22	1.04	23.62	71.52	1.13	0.70	1.26	1.76	100
CARE	5	0.38	34.41	62.98	0.66	0.40	0.48	1.07	100
GRCA	3	0.33	45.95	51.86	0.55	0.34	0.36	0.92	100
GRSA	3	0.33	82.46	13.08	1.16	0.71	0.76	1.83	100
LAGA	5	0.44	25.09	67.37	1.91	1.17	1.50	2.97	100
MABE	0	0.25	28.79	63.57	2.12	1.30	0.81	3.42	100
MEVE	95	2.18	50.54	42.30	1.67	1.03	1.84	2.63	100
PECO	8	0.52	43.31	54.53	0.56	0.34	0.37	0.89	100
PEFO	5	0.25	91.13	1.98	1.75	1.08	1.27	2.80	100
SAPE	43	1.03	34.16	58.88	1.69	1.04	1.59	2.64	100
WEEL	5	0.42	34.33	58.68	1.81	1.11	1.22	2.86	100
WEMI	23	0.82	31.35	66.25	0.58	0.36	0.54	0.92	100
WHPE	3	0.39	33.90	60.27	1.53	0.94	0.95	2.41	100

Baseline - Consent Decree (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	12	0.65	29.26	66.96	1.65	0.42	0.45	1.27	100
BAND	10	0.57	52.51	41.86	2.54	0.64	0.47	1.97	100
BLCA	5	0.41	28.10	70.16	0.78	0.20	0.14	0.62	100
CANY	17	0.85	30.97	66.94	0.92	0.23	0.21	0.73	100
CARE	5	0.26	91.08	1.83	3.13	0.79	0.70	2.47	100
GRCA	3	0.24	42.65	55.95	0.62	0.16	0.12	0.51	100
GRSA	0	0.24	27.92	70.46	0.73	0.18	0.12	0.58	100
LAGA	1	0.33	22.49	73.90	1.64	0.41	0.29	1.26	100
MABE	0	0.18	27.59	70.65	0.80	0.20	0.13	0.63	100
MEVE	76	1.90	42.51	53.81	1.58	0.40	0.48	1.23	100
PECO	5	0.36	30.99	66.44	1.17	0.30	0.18	0.91	100
PEFO	3	0.18	28.46	69.86	0.75	0.19	0.13	0.61	100
SAPE	34	0.81	28.26	67.95	1.66	0.42	0.43	1.29	100
WEEL	4	0.33	32.22	63.43	1.95	0.49	0.38	1.52	100
WEMI	16	0.64	31.41	61.73	2.93	0.74	0.94	2.25	100
WHPE	0	0.31	44.36	54.39	0.55	0.14	0.11	0.44	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	10	0.54	35.39	60.04	1.99	0.50	0.54	1.53	100
BAND	8	0.50	37.47	59.77	1.22	0.31	0.27	0.96	100
BLCA	4	0.33	34.88	62.96	0.97	0.24	0.17	0.76	100
CANY	14	0.71	37.34	60.15	1.11	0.28	0.25	0.88	100
CARE	4	0.23	38.68	59.34	0.87	0.22	0.18	0.70	100
GRCA	1	0.20	50.52	47.83	0.73	0.18	0.14	0.60	100
GRSA	0	0.20	33.71	62.43	1.74	0.44	0.32	1.36	100
LAGA	0	0.28	39.01	59.09	0.84	0.21	0.18	0.66	100
MABE	0	0.16	34.97	59.07	2.76	0.70	0.30	2.21	100
MEVE	73	1.75	46.72	49.24	1.73	0.44	0.52	1.35	100
PECO	3	0.30	46.55	47.29	2.80	0.71	0.46	2.19	100
PEFO	0	0.17	93.49	1.65	2.16	0.55	0.44	1.70	100
SAPE	23	0.67	34.23	61.17	2.01	0.51	0.52	1.56	100
WEEL	1	0.27	39.32	55.42	2.36	0.60	0.46	1.84	100
WEMI	9	0.54	25.98	69.95	1.75	0.44	0.52	1.35	100
WHPE	0	0.26	52.36	46.16	0.65	0.17	0.13	0.52	100

PNM SJGS BART Modeling - Unit 3
Nitrate Repartitioning - Monthly Varying NH3 Background
2003

Pre-Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	14	0.72	30.15	61.20	2.06	1.26	2.13	3.19	100
BAND	15	0.71	23.24	69.03	1.92	1.18	1.63	2.99	100
BLCA	9	0.59	23.67	72.71	0.88	0.54	0.82	1.38	100
CANY	19	0.96	32.66	55.96	2.65	1.63	2.99	4.11	100
CARE	9	0.52	48.88	48.12	0.75	0.46	0.56	1.23	100
GRCA	3	0.26	91.93	1.11	1.76	1.08	1.29	2.83	100
GRSA	3	0.27	49.52	46.33	1.06	0.65	0.76	1.68	100
LAGA	5	0.43	22.09	71.73	1.75	1.07	0.58	2.78	100
MABE	0	0.25	27.57	67.94	1.12	0.69	0.91	1.76	100
MEVE	92	2.14	70.75	6.38	5.19	3.19	6.44	8.05	100
PECO	12	0.58	54.64	39.46	1.53	0.94	0.97	2.45	100
PEFO	1	0.24	88.09	6.50	1.41	0.87	0.86	2.28	100
SAPE	34	0.88	39.44	54.36	1.46	0.90	1.58	2.27	100
WEEL	4	0.38	22.78	73.96	0.83	0.51	0.60	1.31	100
WEMI	15	0.65	30.94	64.97	1.04	0.64	0.76	1.65	100
WHPE	4	0.37	24.02	69.82	1.56	0.96	1.20	2.46	100

Baseline - Consent Decree (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	9	0.66	29.12	65.81	2.19	0.55	0.65	1.68	100
BAND	8	0.61	31.91	64.13	1.75	0.44	0.40	1.36	100
BLCA	7	0.46	33.18	65.04	0.79	0.20	0.18	0.62	100
CANY	14	0.79	32.64	60.84	2.79	0.70	0.88	2.14	100
CARE	4	0.36	91.10	1.19	3.36	0.85	0.90	2.60	100
GRCA	0	0.19	52.76	43.76	1.54	0.39	0.32	1.23	100
GRSA	1	0.21	23.53	72.94	1.57	0.40	0.34	1.22	100
LAGA	3	0.33	21.25	74.88	1.79	0.45	0.16	1.47	100
MABE	0	0.18	22.58	74.94	1.09	0.27	0.27	0.85	100
MEVE	64	1.74	43.30	46.82	4.20	1.06	1.40	3.22	100
PECO	5	0.42	34.27	62.29	1.50	0.38	0.39	1.16	100
PEFO	1	0.17	72.31	23.90	1.69	0.43	0.30	1.36	100
SAPE	18	0.72	27.03	68.03	2.14	0.54	0.62	1.64	100
WEEL	2	0.35	23.08	74.48	1.07	0.27	0.28	0.83	100
WEMI	7	0.50	30.19	67.61	0.97	0.25	0.20	0.78	100
WHPE	2	0.28	90.86	5.64	1.60	0.40	0.26	1.24	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	9	0.55	35.09	58.78	2.65	0.67	0.78	2.03	100
BAND	8	0.50	28.62	67.27	1.80	0.46	0.47	1.39	100
BLCA	1	0.38	40.36	57.47	0.96	0.24	0.22	0.75	100
CANY	11	0.68	56.74	39.80	1.52	0.38	0.32	1.23	100
CARE	3	0.33	53.73	44.06	0.97	0.25	0.20	0.79	100
GRCA	0	0.18	94.07	0.99	2.19	0.55	0.46	1.74	100
GRSA	1	0.17	29.37	66.22	1.96	0.50	0.42	1.52	100
LAGA	1	0.27	44.37	53.03	1.16	0.29	0.22	0.93	100
MABE	0	0.14	28.24	68.66	1.36	0.34	0.34	1.06	100
MEVE	60	1.59	49.07	39.71	4.77	1.20	1.59	3.66	100
PECO	2	0.36	60.12	35.47	1.98	0.50	0.36	1.57	100
PEFO	0	0.16	90.50	5.58	1.76	0.44	0.31	1.41	100
SAPE	11	0.61	32.36	61.72	2.56	0.65	0.75	1.96	100
WEEL	0	0.28	28.69	68.28	1.32	0.33	0.35	1.03	100
WEMI	5	0.41	29.04	64.34	2.97	0.75	0.57	2.34	100
WHPE	1	0.24	29.04	66.47	2.00	0.50	0.43	1.57	100

PNM SJGS BART Modeling - Unit 4
Nitrate Repartitioning - Monthly Varying NH3 Background
2001

Pre-Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	18	1.05	38.73	59.14	0.54	0.33	0.40	0.86	100
BAND	9	0.54	77.25	16.22	1.66	1.02	1.24	2.61	100
BLCA	10	0.58	27.97	66.50	1.39	0.86	1.12	2.16	100
CANY	35	1.47	36.32	61.24	0.61	0.38	0.47	0.99	100
CARE	18	1.11	30.71	66.66	0.64	0.39	0.59	1.01	100
GRCA	7	0.48	31.01	66.45	0.63	0.39	0.51	1.00	100
GRSA	1	0.29	76.95	15.10	2.18	1.34	1.00	3.43	100
LAGA	4	0.40	40.66	56.73	0.68	0.42	0.44	1.09	100
MABE	1	0.24	69.36	25.32	1.36	0.84	0.94	2.18	100
MEVE	97	1.94	55.06	37.27	1.83	1.13	1.84	2.87	100
PECO	6	0.48	32.92	63.69	0.95	0.58	0.38	1.49	100
PEFO	5	0.44	29.28	67.84	0.68	0.42	0.71	1.07	100
SAPE	33	0.89	31.06	63.04	1.43	0.88	1.38	2.22	100
WEEL	6	0.38	38.50	56.07	1.42	0.88	0.88	2.25	100
WEMI	10	0.59	27.20	66.98	1.42	0.88	1.30	2.23	100
WHPE	5	0.37	30.24	67.03	0.72	0.44	0.43	1.14	100

Baseline - Consent Decree (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	18	0.88	35.06	63.08	0.82	0.21	0.17	0.66	100
BAND	3	0.38	26.97	70.54	1.12	0.29	0.20	0.87	100
BLCA	4	0.42	25.63	71.10	1.45	0.37	0.33	1.12	100
CANY	29	1.14	32.53	65.94	0.68	0.17	0.15	0.54	100
CARE	13	0.86	26.89	71.54	0.68	0.18	0.18	0.54	100
GRCA	5	0.36	27.72	70.68	0.70	0.18	0.16	0.55	100
GRSA	0	0.21	36.09	57.39	2.96	0.76	0.50	2.30	100
LAGA	1	0.28	36.17	62.10	0.77	0.20	0.14	0.61	100
MABE	0	0.20	33.07	64.29	1.19	0.31	0.21	0.94	100
MEVE	64	1.55	71.87	17.66	4.45	1.15	1.45	3.43	100
PECO	2	0.34	87.02	9.05	1.73	0.45	0.41	1.35	100
PEFO	2	0.29	85.93	11.66	1.07	0.28	0.21	0.85	100
SAPE	18	0.69	27.73	68.93	1.46	0.38	0.39	1.12	100
WEEL	4	0.30	33.81	63.19	1.36	0.35	0.23	1.07	100
WEMI	6	0.43	21.27	75.64	1.32	0.34	0.40	1.03	100
WHPE	2	0.28	27.76	70.47	0.80	0.21	0.13	0.63	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	16	0.79	39.99	57.86	0.95	0.24	0.20	0.76	100
BAND	1	0.31	30.99	64.97	1.84	0.47	0.30	1.43	100
BLCA	2	0.35	31.42	64.57	1.78	0.46	0.41	1.37	100
CANY	27	1.01	49.40	48.07	1.08	0.28	0.35	0.83	100
CARE	12	0.71	33.04	65.03	0.84	0.22	0.22	0.66	100
GRCA	4	0.29	34.30	63.73	0.87	0.22	0.20	0.68	100
GRSA	0	0.18	80.37	13.47	2.83	0.73	0.39	2.21	100
LAGA	0	0.25	82.77	12.53	2.07	0.53	0.47	1.62	100
MABE	0	0.17	40.27	56.52	1.45	0.37	0.25	1.14	100
MEVE	57	1.49	75.14	6.79	7.62	1.96	2.63	5.86	100
PECO	2	0.29	50.01	46.73	1.47	0.38	0.26	1.15	100
PEFO	2	0.29	85.93	11.66	1.07	0.28	0.21	0.85	100
SAPE	18	0.69	27.73	68.93	1.46	0.38	0.39	1.12	100
WEEL	1	0.25	41.07	55.28	1.65	0.42	0.28	1.29	100
WEMI	2	0.36	31.71	63.93	1.90	0.49	0.49	1.47	100
WHPE	2	0.22	34.73	63.06	1.00	0.26	0.17	0.79	100

PNM SJGS BART Modeling - Unit 4
Nitrate Repartitioning - Monthly Varying NH3 Background
2002

Pre-Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	15	0.84	33.46	63.61	0.73	0.45	0.58	1.17	100
BAND	20	0.81	53.16	38.54	2.16	1.33	1.41	3.39	100
BLCA	10	0.54	22.21	73.48	1.04	0.64	1.01	1.62	100
CANY	22	1.06	24.09	71.18	1.10	0.68	1.23	1.72	100
CARE	5	0.38	35.19	62.28	0.64	0.39	0.47	1.04	100
GRCA	3	0.34	47.06	50.82	0.54	0.33	0.35	0.90	100
GRSA	2	0.34	83.04	12.72	1.10	0.68	0.71	1.74	100
LAGA	4	0.45	81.97	13.16	1.28	0.79	0.74	2.05	100
MABE	0	0.25	28.95	63.55	2.07	1.28	0.79	3.36	100
MEVE	96	2.18	51.65	41.36	1.63	1.00	1.80	2.56	100
PECO	8	0.52	44.34	53.57	0.54	0.33	0.36	0.86	100
PEFO	5	0.27	91.57	1.90	1.66	1.02	1.20	2.65	100
SAPE	43	1.04	34.95	58.17	1.67	1.03	1.57	2.61	100
WEEL	5	0.43	35.21	57.78	1.81	1.12	1.23	2.86	100
WEMI	25	0.81	32.08	65.59	0.56	0.35	0.53	0.90	100
WHPE	4	0.41	34.54	59.79	1.49	0.92	0.93	2.35	100

Baseline - Consent Decree (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	12	0.65	29.14	67.09	1.64	0.42	0.45	1.27	100
BAND	10	0.56	52.56	41.80	2.54	0.65	0.47	1.98	100
BLCA	4	0.42	20.20	77.31	1.08	0.28	0.30	0.83	100
CANY	17	0.85	30.88	67.04	0.92	0.24	0.20	0.73	100
CARE	5	0.26	91.06	1.83	3.12	0.81	0.70	2.47	100
GRCA	3	0.24	42.57	56.03	0.62	0.16	0.12	0.51	100
GRSA	0	0.23	28.00	70.38	0.73	0.19	0.12	0.58	100
LAGA	1	0.32	22.47	73.91	1.64	0.42	0.29	1.27	100
MABE	0	0.19	28.63	66.47	2.26	0.58	0.24	1.82	100
MEVE	75	1.89	42.10	54.26	1.56	0.40	0.47	1.22	100
PECO	5	0.35	30.81	66.63	1.17	0.30	0.18	0.91	100
PEFO	3	0.18	28.47	69.84	0.75	0.19	0.13	0.61	100
SAPE	34	0.80	28.16	68.06	1.65	0.42	0.42	1.29	100
WEEL	4	0.33	24.93	71.68	1.47	0.38	0.41	1.13	100
WEMI	13	0.63	31.35	61.78	2.92	0.75	0.93	2.26	100
WHPE	0	0.30	44.20	54.55	0.55	0.14	0.11	0.44	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	9	0.54	35.26	60.17	1.98	0.51	0.54	1.54	100
BAND	6	0.49	37.43	59.81	1.22	0.31	0.27	0.96	100
BLCA	4	0.34	25.21	71.68	1.34	0.35	0.38	1.04	100
CANY	14	0.71	37.25	60.23	1.11	0.29	0.25	0.88	100
CARE	4	0.23	38.70	59.32	0.87	0.22	0.18	0.70	100
GRCA	1	0.20	50.42	47.92	0.73	0.19	0.14	0.60	100
GRSA	0	0.19	33.70	62.42	1.74	0.45	0.33	1.36	100
LAGA	0	0.27	39.05	59.06	0.84	0.22	0.18	0.67	100
MABE	0	0.16	40.78	54.76	2.01	0.52	0.36	1.58	100
MEVE	71	1.73	46.32	49.67	1.71	0.44	0.52	1.34	100
PECO	3	0.30	46.58	47.24	2.80	0.72	0.46	2.20	100
PEFO	0	0.17	93.49	1.65	2.15	0.56	0.44	1.71	100
SAPE	22	0.66	34.15	61.26	2.00	0.51	0.51	1.56	100
WEEL	1	0.27	30.78	65.04	1.81	0.47	0.50	1.40	100
WEMI	8	0.54	25.87	70.07	1.75	0.45	0.52	1.35	100
WHPE	0	0.26	36.50	61.80	0.75	0.19	0.15	0.60	100

PNM SJGS BART Modeling - Unit 4
Nitrate Repartitioning - Monthly Varying NH3 Background
2003

Pre-Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	14	0.74	30.46	60.93	2.04	1.26	2.14	3.18	100
BAND	15	0.71	23.48	68.94	1.88	1.16	1.60	2.93	100
BLCA	9	0.59	37.08	55.34	1.83	1.13	1.78	2.84	100
CANY	20	0.97	32.92	55.93	2.59	1.60	2.93	4.03	100
CARE	9	0.53	49.90	47.20	0.72	0.45	0.54	1.19	100
GRCA	3	0.27	92.31	1.07	1.68	1.03	1.22	2.69	100
GRSA	3	0.27	24.99	69.23	1.46	0.90	1.12	2.30	100
LAGA	5	0.43	22.20	71.74	1.71	1.06	0.56	2.72	100
MABE	0	0.24	24.98	71.07	0.97	0.60	0.87	1.52	100
MEVE	93	2.15	71.14	6.46	5.08	3.13	6.31	7.88	100
PECO	12	0.59	55.50	38.80	1.48	0.91	0.94	2.37	100
PEFO	1	0.25	88.57	6.28	1.34	0.83	0.81	2.17	100
SAPE	35	0.88	28.38	62.72	2.09	1.29	2.27	3.25	100
WEEL	5	0.39	23.21	73.59	0.82	0.50	0.58	1.29	100
WEMI	15	0.65	31.61	64.42	1.01	0.63	0.73	1.61	100
WHPE	4	0.38	24.18	69.77	1.52	0.94	1.18	2.41	100

Baseline - Consent Decree (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	9	0.63	28.93	66.06	2.16	0.56	0.63	1.67	100
BAND	8	0.60	23.30	73.35	1.46	0.38	0.38	1.13	100
BLCA	7	0.44	33.38	64.83	0.79	0.20	0.18	0.62	100
CANY	13	0.78	32.54	60.94	2.78	0.72	0.88	2.14	100
CARE	4	0.35	91.08	1.19	3.35	0.86	0.90	2.61	100
GRCA	0	0.18	52.85	43.67	1.54	0.40	0.32	1.23	100
GRSA	1	0.21	23.53	72.93	1.57	0.41	0.34	1.23	100
LAGA	3	0.32	21.23	74.90	1.79	0.46	0.16	1.47	100
MABE	0	0.18	22.92	75.41	0.73	0.19	0.18	0.57	100
MEVE	63	1.73	44.56	45.24	4.32	1.11	1.44	3.33	100
PECO	5	0.41	52.81	43.33	1.73	0.45	0.31	1.38	100
PEFO	1	0.17	31.86	65.63	1.13	0.29	0.18	0.92	100
SAPE	17	0.69	26.79	68.32	2.10	0.54	0.62	1.62	100
WEEL	1	0.33	23.22	75.05	0.76	0.19	0.19	0.59	100
WEMI	6	0.49	30.25	67.54	0.97	0.25	0.20	0.78	100
WHPE	2	0.28	90.85	5.63	1.59	0.41	0.26	1.24	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	9	0.53	34.84	59.13	2.60	0.67	0.76	2.01	100
BAND	7	0.49	28.60	67.28	1.80	0.46	0.47	1.39	100
BLCA	1	0.37	40.59	57.23	0.96	0.25	0.22	0.76	100
CANY	12	0.67	54.33	42.11	1.55	0.40	0.36	1.24	100
CARE	3	0.32	53.74	44.05	0.97	0.25	0.20	0.79	100
GRCA	0	0.17	94.07	0.98	2.18	0.56	0.46	1.74	100
GRSA	1	0.16	29.36	66.21	1.96	0.51	0.42	1.53	100
LAGA	0	0.26	26.64	68.50	2.24	0.58	0.20	1.84	100
MABE	0	0.14	40.85	56.95	0.96	0.25	0.24	0.75	100
MEVE	58	1.58	49.15	39.60	4.76	1.23	1.59	3.67	100
PECO	2	0.36	60.28	35.31	1.97	0.51	0.36	1.57	100
PEFO	1	0.17	31.86	65.63	1.13	0.29	0.18	0.92	100
SAPE	17	0.69	26.79	68.32	2.10	0.54	0.62	1.62	100
WEEL	0	0.26	29.19	68.62	0.95	0.24	0.24	0.75	100
WEMI	5	0.40	28.99	64.37	2.96	0.76	0.57	2.34	100
WHPE	1	0.23	29.01	66.48	1.99	0.51	0.43	1.57	100

PNM SJGS BART Modeling
Nitrate Repartitioning - 1ppb NH3 Background
2001

Pre-Consent Decree (4)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	63	3.88	29.98	65.42	1.19	0.73	0.68	1.99	100
BAND	83	1.76	25.84	70.52	0.96	0.59	0.60	1.50	100
BLCA	52	1.97	23.12	72.14	1.20	0.73	0.95	1.86	100
CANY	86	5.13	30.60	66.54	0.72	0.44	0.55	1.16	100
CARE	33	3.75	24.65	73.07	0.55	0.34	0.51	0.87	100
GRCA	14	1.76	26.45	71.33	0.56	0.34	0.41	0.91	100
GRSA	28	1.09	29.07	62.55	2.23	1.37	1.29	3.49	100
LAGA	48	1.46	24.79	71.54	0.90	0.55	0.84	1.40	100
MABE	19	0.89	19.82	73.71	1.62	0.99	1.35	2.52	100
MEVE	194	6.04	61.06	23.56	3.54	2.17	4.16	5.51	100
PECO	62	1.59	28.83	67.96	0.89	0.55	0.37	1.40	100
PEFO	21	1.34	37.69	58.19	1.04	0.64	0.76	1.68	100
SAPE	123	3.47	21.59	74.14	1.04	0.64	0.99	1.62	100
WEEL	51	1.45	23.15	73.90	0.75	0.46	0.53	1.21	100
WEMI	88	2.01	28.91	63.92	1.74	1.06	1.67	2.70	100
WHPE	46	1.32	84.34	10.11	1.38	0.85	1.15	2.18	100

Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	54	3.63	26.14	71.28	1.14	0.29	0.19	0.95	100
BAND	68	1.32	29.07	69.42	0.68	0.17	0.12	0.54	100
BLCA	37	1.49	27.25	70.10	1.19	0.30	0.23	0.93	100
CANY	72	4.80	28.49	70.10	0.62	0.16	0.13	0.49	100
CARE	31	2.89	23.77	74.85	0.60	0.15	0.15	0.47	100
GRCA	12	1.46	24.80	73.83	0.61	0.15	0.12	0.49	100
GRSA	21	0.83	29.17	65.57	2.39	0.61	0.40	1.85	100
LAGA	26	1.08	24.16	74.12	0.77	0.20	0.14	0.61	100
MABE	11	0.70	20.03	76.10	1.71	0.44	0.40	1.32	100
MEVE	173	5.27	25.48	71.07	1.47	0.37	0.48	1.13	100
PECO	49	1.20	35.48	62.23	1.02	0.26	0.20	0.80	100
PEFO	16	0.96	36.46	60.95	1.14	0.29	0.23	0.91	100
SAPE	107	2.68	20.98	76.53	1.09	0.28	0.28	0.84	100
WEEL	29	1.12	22.44	75.75	0.81	0.21	0.16	0.64	100
WEMI	65	1.56	21.65	75.52	1.21	0.31	0.39	0.93	100
WHPE	30	0.96	37.15	59.53	1.49	0.38	0.29	1.16	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	50	3.06	25.78	71.16	1.35	0.34	0.31	1.06	100
BAND	49	1.09	27.96	68.10	1.78	0.45	0.34	1.38	100
BLCA	30	1.22	33.89	62.82	1.48	0.38	0.28	1.16	100
CANY	69	4.04	35.25	63.02	0.77	0.20	0.16	0.61	100
CARE	29	2.36	29.97	68.29	0.76	0.19	0.19	0.60	100
GRCA	11	1.18	31.10	67.18	0.76	0.19	0.16	0.61	100
GRSA	14	0.69	35.23	58.42	2.89	0.74	0.48	2.24	100
LAGA	20	0.87	30.43	67.40	0.97	0.25	0.18	0.77	100
MABE	8	0.56	25.24	69.89	2.15	0.55	0.51	1.66	100
MEVE	167	4.63	68.12	15.50	6.91	1.77	2.38	5.31	100
PECO	42	1.01	84.15	11.58	1.91	0.49	0.38	1.49	100
PEFO	13	0.89	31.69	66.21	0.91	0.23	0.26	0.71	100
SAPE	96	2.19	26.34	70.53	1.37	0.35	0.36	1.05	100
WEEL	18	0.90	28.37	69.33	1.02	0.26	0.21	0.81	100
WEMI	55	1.29	27.20	69.11	1.57	0.40	0.51	1.21	100
WHPE	26	0.89	87.73	8.49	1.66	0.42	0.40	1.30	100

PNM SJGS BART Modeling
Nitrate Repartitioning - 1 ppb NH3 Background
2002

Pre-Consent Decree (4)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	49	2.93	21.16	75.39	0.85	0.52	0.74	1.34	100
BAND	102	2.55	25.19	70.67	1.08	0.66	0.67	1.71	100
BLCA	64	1.95	17.79	78.56	0.88	0.54	0.87	1.37	100
CANY	70	3.81	24.38	71.27	1.08	0.66	0.90	1.70	100
CARE	25	1.20	88.07	1.40	2.63	1.61	2.09	4.20	100
GRCA	16	1.28	35.67	62.58	0.44	0.27	0.29	0.74	100
GRSA	37	1.10	26.69	71.00	0.61	0.37	0.35	0.98	100
LAGA	72	1.45	22.21	74.60	0.81	0.50	0.58	1.30	100
MABE	25	0.85	27.13	69.91	0.76	0.47	0.52	1.22	100
MEVE	195	5.98	40.37	54.69	1.16	0.71	1.23	1.84	100
PECO	76	1.93	32.04	61.71	1.66	1.02	0.97	2.62	100
PEFO	19	0.86	27.40	70.14	0.63	0.39	0.40	1.04	100
SAPE	134	3.47	46.92	47.24	1.46	0.90	1.21	2.28	100
WEEL	52	1.47	23.60	71.12	1.28	0.78	1.24	1.98	100
WEMI	132	2.57	23.39	72.00	1.07	0.66	1.21	1.67	100
WHPE	47	1.44	42.09	56.16	0.45	0.27	0.31	0.73	100

Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	35	2.82	27.29	71.11	0.70	0.18	0.17	0.56	100
BAND	82	2.07	26.08	69.71	1.85	0.47	0.45	1.43	100
BLCA	42	1.56	20.99	77.05	0.87	0.22	0.20	0.67	100
CANY	61	3.29	23.00	74.53	1.09	0.28	0.25	0.85	100
CARE	19	0.93	26.49	72.34	0.51	0.13	0.12	0.41	100
GRCA	12	0.98	34.05	64.84	0.49	0.12	0.09	0.40	100
GRSA	20	0.80	25.18	73.35	0.66	0.17	0.11	0.53	100
LAGA	49	1.13	21.66	76.37	0.88	0.22	0.18	0.69	100
MABE	16	0.66	23.88	74.36	0.77	0.20	0.18	0.61	100
MEVE	177	5.67	30.72	67.01	0.97	0.25	0.28	0.76	100
PECO	54	1.47	32.10	63.84	1.84	0.47	0.31	1.44	100
PEFO	13	0.66	25.94	72.52	0.69	0.18	0.12	0.56	100
SAPE	117	2.91	27.67	68.39	1.72	0.44	0.45	1.33	100
WEEL	35	1.12	22.69	74.27	1.32	0.34	0.36	1.02	100
WEMI	99	2.00	20.06	76.79	1.36	0.35	0.40	1.05	100
WHPE	28	1.06	27.12	71.66	0.55	0.14	0.11	0.43	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	31	2.31	26.14	71.31	1.11	0.28	0.27	0.87	100
BAND	65	1.76	31.20	63.77	2.22	0.57	0.54	1.71	100
BLCA	34	1.26	26.50	71.01	1.09	0.28	0.26	0.85	100
CANY	60	2.72	31.70	66.17	0.94	0.24	0.21	0.74	100
CARE	19	0.80	35.32	62.88	0.79	0.20	0.17	0.64	100
GRCA	10	0.81	41.58	57.06	0.60	0.15	0.11	0.49	100
GRSA	14	0.65	31.48	66.69	0.82	0.21	0.14	0.66	100
LAGA	33	0.90	27.68	69.80	1.12	0.29	0.23	0.89	100
MABE	11	0.54	87.55	9.43	1.36	0.35	0.24	1.07	100
MEVE	169	5.30	35.11	61.32	1.54	0.39	0.44	1.20	100
PECO	45	1.23	38.90	56.18	2.23	0.57	0.38	1.74	100
PEFO	9	0.54	93.61	1.55	2.15	0.55	0.44	1.70	100
SAPE	109	2.61	46.66	49.62	1.65	0.42	0.38	1.27	100
WEEL	26	0.91	35.16	60.21	2.08	0.53	0.39	1.63	100
WEMI	79	1.77	41.97	56.32	0.76	0.19	0.15	0.61	100
WHPE	20	0.86	33.80	64.67	0.68	0.17	0.13	0.54	100

PNM SJGS BART Modeling
Nitrate Repartitioning - 1ppb NH3 Background
2003

Pre-Consent Decree (4)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	44	3.04	22.97	72.89	0.99	0.60	0.99	1.56	100
BAND	92	2.83	25.53	70.07	1.12	0.68	0.86	1.74	100
BLCA	43	2.15	32.21	62.82	1.19	0.73	1.17	1.87	100
CANY	61	3.75	32.48	65.63	0.47	0.29	0.36	0.77	100
CARE	27	1.61	87.50	0.87	2.81	1.72	2.68	4.41	100
GRCA	12	0.92	47.94	47.28	1.21	0.74	0.86	1.96	100
GRSA	32	0.96	42.44	53.87	0.95	0.58	0.67	1.50	100
LAGA	49	1.52	27.92	67.48	1.17	0.72	0.90	1.82	100
MABE	17	0.91	20.17	76.39	0.85	0.52	0.74	1.33	100
MEVE	182	5.85	28.35	66.46	1.19	0.73	1.43	1.85	100
PECO	81	2.23	40.55	56.89	0.68	0.41	0.39	1.08	100
PEFO	18	0.78	18.88	78.20	0.76	0.47	0.47	1.21	100
SAPE	140	3.35	26.53	67.27	1.49	0.91	1.49	2.32	100
WEEL	37	1.42	25.63	69.73	1.13	0.69	1.07	1.75	100
WEMI	104	2.25	28.72	68.06	0.82	0.50	0.59	1.32	100
WHPE	58	1.35	29.44	68.47	0.53	0.32	0.39	0.84	100

Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	34	2.71	22.19	75.32	1.07	0.27	0.30	0.84	100
BAND	69	2.14	25.04	72.32	1.18	0.30	0.25	0.91	100
BLCA	31	1.76	26.99	71.60	0.62	0.16	0.14	0.49	100
CANY	51	3.05	30.81	68.00	0.52	0.13	0.11	0.42	100
CARE	25	1.24	26.77	72.03	0.53	0.14	0.08	0.45	100
GRCA	10	0.68	45.83	51.15	1.34	0.34	0.27	1.07	100
GRSA	19	0.71	22.61	75.07	1.03	0.26	0.21	0.82	100
LAGA	36	1.15	35.52	62.27	0.98	0.25	0.22	0.76	100
MABE	14	0.65	19.66	78.34	0.88	0.22	0.21	0.69	100
MEVE	169	5.10	57.33	32.99	4.09	1.05	1.40	3.15	100
PECO	60	1.67	38.62	59.73	0.75	0.19	0.13	0.59	100
PEFO	11	0.60	65.22	31.37	1.53	0.39	0.27	1.23	100
SAPE	117	2.78	23.83	73.49	1.15	0.29	0.34	0.89	100
WEEL	25	1.09	28.07	69.57	1.03	0.26	0.25	0.81	100
WEMI	80	1.68	27.81	70.15	0.90	0.23	0.19	0.72	100
WHPE	34	1.15	28.67	70.05	0.57	0.14	0.12	0.45	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	29	2.22	27.76	69.12	1.34	0.34	0.37	1.05	100
BAND	65	1.76	30.99	65.75	1.45	0.37	0.32	1.13	100
BLCA	25	1.44	33.74	64.51	0.78	0.20	0.17	0.61	100
CANY	50	2.53	38.22	60.32	0.65	0.16	0.14	0.52	100
CARE	24	1.12	91.50	0.76	3.36	0.86	0.91	2.61	100
GRCA	9	0.59	53.12	43.38	1.55	0.40	0.32	1.24	100
GRSA	13	0.59	26.07	70.04	1.73	0.44	0.37	1.35	100
LAGA	24	0.97	42.82	54.51	1.18	0.30	0.27	0.92	100
MABE	8	0.52	25.08	72.38	1.12	0.29	0.26	0.88	100
MEVE	164	4.74	32.32	63.19	1.92	0.49	0.58	1.50	100
PECO	50	1.38	28.83	68.34	1.24	0.32	0.31	0.96	100
PEFO	9	0.53	23.41	74.25	1.05	0.27	0.19	0.83	100
SAPE	104	2.34	28.97	67.78	1.40	0.36	0.42	1.08	100
WEEL	22	0.90	34.48	62.61	1.27	0.32	0.31	1.00	100
WEMI	67	1.45	29.36	67.98	1.14	0.29	0.33	0.89	100
WHPE	26	0.93	35.59	62.82	0.70	0.18	0.15	0.56	100

PNM SJGS BART Modeling - Unit 1
Nitrate Repartitioning - 1ppb NH3 Background
2001

Pre-Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	19	1.10	19.01	77.17	0.95	0.58	0.78	1.51	100
BAND	4	0.36	22.47	72.83	1.27	0.77	0.68	1.98	100
BLCA	4	0.39	32.95	64.66	0.58	0.35	0.55	0.91	100
CANY	33	1.50	27.68	70.07	0.57	0.34	0.43	0.91	100
CARE	16	0.85	23.21	74.50	0.56	0.34	0.51	0.89	100
GRCA	7	0.39	24.41	73.35	0.57	0.34	0.41	0.92	100
GRSA	0	0.22	27.18	69.52	0.88	0.53	0.52	1.38	100
LAGA	2	0.29	23.67	73.56	0.73	0.44	0.45	1.16	100
MABE	1	0.19	18.91	74.76	1.59	0.96	1.32	2.47	100
MEVE	70	2.26	29.86	61.29	2.04	1.23	2.40	3.18	100
PECO	2	0.33	34.59	61.76	0.94	0.57	0.65	1.49	100
PEFO	2	0.26	35.35	60.49	1.06	0.64	0.75	1.71	100
SAPE	20	0.80	19.87	76.10	0.99	0.60	0.90	1.54	100
WEEL	4	0.33	21.87	75.20	0.75	0.45	0.52	1.20	100
WEMI	4	0.45	19.30	75.87	1.12	0.68	1.30	1.74	100
WHPE	2	0.27	35.33	59.48	1.35	0.82	0.90	2.13	100

Baseline - Consent Decree (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	17	0.86	21.45	76.02	1.09	0.28	0.30	0.86	100
BAND	1	0.29	24.57	72.22	1.47	0.38	0.23	1.14	100
BLCA	3	0.31	27.85	69.57	1.16	0.30	0.21	0.91	100
CANY	27	1.25	21.94	76.75	0.58	0.15	0.11	0.47	100
CARE	14	0.66	21.10	77.27	0.73	0.19	0.14	0.58	100
GRCA	5	0.34	24.25	74.40	0.60	0.15	0.12	0.48	100
GRSA	0	0.16	21.08	77.03	0.84	0.21	0.18	0.66	100
LAGA	0	0.22	24.76	73.54	0.76	0.20	0.14	0.60	100
MABE	0	0.15	19.83	76.38	1.68	0.43	0.39	1.30	100
MEVE	53	1.96	21.72	74.78	1.49	0.38	0.46	1.16	100
PECO	2	0.25	35.11	62.63	1.01	0.26	0.20	0.79	100
PEFO	2	0.19	24.50	73.18	1.03	0.26	0.22	0.81	100
SAPE	10	0.57	20.85	76.74	1.06	0.27	0.26	0.82	100
WEEL	1	0.25	22.38	75.51	0.92	0.23	0.23	0.72	100
WEMI	2	0.34	27.74	65.03	3.15	0.81	0.83	2.44	100
WHPE	2	0.23	29.48	68.87	0.76	0.19	0.10	0.61	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	13	0.69	27.14	69.65	1.39	0.35	0.38	1.08	100
BAND	1	0.23	37.66	57.02	2.35	0.60	0.51	1.85	100
BLCA	1	0.25	34.68	62.12	1.44	0.37	0.26	1.14	100
CANY	24	0.99	27.96	70.35	0.74	0.19	0.15	0.60	100
CARE	10	0.52	26.56	71.27	0.97	0.25	0.19	0.76	100
GRCA	4	0.27	30.48	67.82	0.75	0.19	0.15	0.61	100
GRSA	0	0.13	91.64	4.93	1.51	0.39	0.35	1.18	100
LAGA	0	0.18	31.15	66.71	0.96	0.25	0.17	0.76	100
MABE	0	0.12	25.03	70.18	2.12	0.54	0.49	1.64	100
MEVE	43	1.61	26.96	68.69	1.86	0.48	0.58	1.44	100
PECO	1	0.22	27.00	68.63	1.92	0.49	0.47	1.49	100
PEFO	2	0.17	31.80	66.11	0.91	0.23	0.25	0.71	100
SAPE	7	0.45	26.39	70.55	1.34	0.34	0.33	1.04	100
WEEL	0	0.20	28.26	69.08	1.16	0.30	0.29	0.91	100
WEMI	2	0.27	28.26	68.08	1.55	0.40	0.51	1.20	100
WHPE	1	0.19	36.47	61.48	0.94	0.24	0.12	0.76	100

PNM SJGS BART Modeling - Unit 1
Nitrate Repartitioning - 1 ppb NH3 Background
2002

Pre-Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	13	0.85	26.32	71.06	0.65	0.39	0.54	1.04	100
BAND	14	0.64	32.38	65.42	0.56	0.34	0.40	0.90	100
BLCA	4	0.43	20.28	76.52	0.80	0.48	0.66	1.26	100
CANY	20	1.02	21.11	75.03	0.97	0.59	0.77	1.53	100
CARE	5	0.26	26.17	71.88	0.48	0.29	0.40	0.77	100
GRCA	3	0.26	33.88	64.33	0.46	0.28	0.30	0.76	100
GRSA	0	0.21	35.27	62.28	0.63	0.38	0.42	1.01	100
LAGA	2	0.32	22.44	72.93	1.11	0.67	1.12	1.73	100
MABE	0	0.19	27.50	67.62	1.29	0.78	0.78	2.04	100
MEVE	86	2.56	23.45	70.72	1.39	0.84	1.42	2.17	100
PECO	4	0.42	30.30	63.38	1.68	1.02	0.97	2.65	100
PEFO	2	0.18	25.54	71.97	0.64	0.39	0.40	1.06	100
SAPE	38	1.00	33.45	62.06	1.13	0.69	0.92	1.76	100
WEEL	3	0.32	26.40	67.67	1.54	0.93	1.04	2.43	100
WEMI	13	0.59	18.86	75.96	1.23	0.75	1.28	1.92	100
WHPE	1	0.28	27.03	70.97	0.51	0.31	0.35	0.83	100

Baseline - Consent Decree (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	11	0.67	19.33	78.14	1.10	0.28	0.28	0.86	100
BAND	6	0.49	23.58	72.71	1.64	0.42	0.38	1.27	100
BLCA	4	0.33	22.97	75.69	0.61	0.16	0.10	0.48	100
CANY	16	0.80	21.96	75.77	1.00	0.26	0.22	0.79	100
CARE	3	0.20	88.04	4.45	3.32	0.85	0.73	2.61	100
GRCA	1	0.21	34.58	64.31	0.49	0.12	0.09	0.40	100
GRSA	0	0.15	24.98	73.55	0.66	0.17	0.11	0.53	100
LAGA	0	0.22	24.86	72.46	1.16	0.30	0.32	0.90	100
MABE	0	0.13	25.66	70.00	2.00	0.51	0.21	1.62	100
MEVE	73	2.23	23.15	73.73	1.33	0.34	0.42	1.03	100
PECO	3	0.32	30.12	65.86	1.82	0.47	0.30	1.43	100
PEFO	1	0.14	25.87	72.60	0.68	0.17	0.12	0.56	100
SAPE	23	0.75	35.06	62.13	1.24	0.32	0.28	0.96	100
WEEL	1	0.22	21.76	75.39	1.24	0.32	0.33	0.96	100
WEMI	9	0.52	20.83	77.20	0.85	0.22	0.23	0.67	100
WHPE	0	0.19	28.33	70.45	0.54	0.14	0.11	0.44	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	9	0.53	24.56	72.23	1.40	0.36	0.36	1.09	100
BAND	4	0.39	29.32	66.06	2.04	0.52	0.48	1.58	100
BLCA	2	0.26	26.18	71.36	1.08	0.28	0.25	0.85	100
CANY	15	0.63	27.88	69.25	1.27	0.32	0.28	1.00	100
CARE	1	0.16	33.21	65.31	0.64	0.16	0.15	0.52	100
GRCA	0	0.17	42.18	56.47	0.59	0.15	0.11	0.49	100
GRSA	0	0.13	34.43	61.81	1.69	0.43	0.31	1.33	100
LAGA	0	0.18	84.40	11.79	1.72	0.44	0.29	1.36	100
MABE	0	0.11	87.53	9.48	1.35	0.35	0.24	1.07	100
MEVE	52	1.83	28.91	67.19	1.66	0.43	0.53	1.29	100
PECO	3	0.26	39.06	55.97	2.25	0.57	0.38	1.76	100
PEFO	0	0.11	32.30	65.77	0.85	0.22	0.15	0.70	100
SAPE	13	0.63	42.17	54.46	1.49	0.38	0.34	1.16	100
WEEL	0	0.18	27.36	69.07	1.56	0.40	0.42	1.20	100
WEMI	5	0.41	26.41	71.10	1.08	0.28	0.30	0.84	100
WHPE	0	0.15	35.16	63.32	0.67	0.17	0.13	0.54	100

PNM SJGS BART Modeling - Unit 1
Nitrate Repartitioning - 1ppb NH3 Background
2003

Pre-Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	11	0.82	20.87	75.05	0.98	0.59	0.97	1.55	100
BAND	12	0.63	19.08	76.20	1.16	0.70	1.06	1.80	100
BLCA	6	0.48	27.14	70.61	0.57	0.34	0.43	0.91	100
CANY	16	0.90	30.20	67.87	0.48	0.29	0.37	0.78	100
CARE	5	0.36	25.80	72.34	0.49	0.29	0.25	0.83	100
GRCA	2	0.19	43.78	51.48	1.21	0.73	0.85	1.96	100
GRSA	1	0.20	26.85	70.79	0.59	0.35	0.49	0.93	100
LAGA	2	0.33	35.29	61.08	0.92	0.55	0.72	1.44	100
MABE	0	0.20	26.79	70.89	0.58	0.35	0.45	0.94	100
MEVE	72	2.20	35.97	53.41	2.44	1.48	2.92	3.79	100
PECO	7	0.46	38.09	59.27	0.70	0.42	0.41	1.12	100
PEFO	1	0.16	63.46	31.14	1.41	0.85	0.86	2.29	100
SAPE	23	0.86	21.57	74.23	0.99	0.60	1.05	1.55	100
WEEL	0	0.30	26.56	69.64	0.94	0.57	0.81	1.49	100
WEMI	9	0.52	39.22	42.79	4.30	2.60	4.39	6.69	100
WHPE	2	0.31	29.02	68.90	0.53	0.32	0.38	0.85	100

Baseline - Consent Decree (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	9	0.71	21.29	76.25	1.06	0.27	0.29	0.84	100
BAND	6	0.44	24.60	72.87	1.13	0.29	0.24	0.88	100
BLCA	2	0.36	29.60	69.04	0.59	0.15	0.14	0.47	100
CANY	14	0.71	30.76	68.06	0.52	0.13	0.11	0.42	100
CARE	3	0.28	25.55	73.27	0.52	0.13	0.08	0.44	100
GRCA	0	0.16	69.22	26.86	1.73	0.44	0.37	1.38	100
GRSA	1	0.16	23.97	73.79	1.00	0.25	0.20	0.79	100
LAGA	1	0.24	33.99	64.16	0.83	0.21	0.14	0.67	100
MABE	0	0.12	33.93	64.37	0.75	0.19	0.17	0.59	100
MEVE	62	1.77	38.13	53.99	3.35	0.86	1.09	2.59	100
PECO	4	0.34	23.05	74.83	0.97	0.25	0.15	0.76	100
PEFO	0	0.12	65.07	31.52	1.52	0.39	0.27	1.23	100
SAPE	13	0.65	25.06	72.61	1.00	0.26	0.30	0.78	100
WEEL	0	0.24	17.71	80.05	0.98	0.25	0.25	0.76	100
WEMI	3	0.39	23.31	71.01	2.46	0.63	0.68	1.92	100
WHPE	0	0.23	26.01	72.20	0.80	0.20	0.17	0.62	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	9	0.57	26.91	69.99	1.34	0.34	0.36	1.06	100
BAND	4	0.35	30.79	66.05	1.41	0.36	0.30	1.10	100
BLCA	0	0.29	36.52	61.81	0.73	0.19	0.17	0.59	100
CANY	12	0.58	48.38	49.91	0.75	0.19	0.16	0.61	100
CARE	2	0.23	91.43	0.86	3.34	0.86	0.90	2.61	100
GRCA	0	0.13	39.47	59.01	0.67	0.17	0.12	0.55	100
GRSA	1	0.13	30.07	67.12	1.25	0.32	0.25	0.99	100
LAGA	0	0.20	41.42	56.32	1.01	0.26	0.17	0.82	100
MABE	0	0.10	41.49	56.42	0.91	0.23	0.21	0.73	100
MEVE	55	1.54	44.21	46.66	3.88	0.99	1.26	3.00	100
PECO	1	0.28	45.46	52.55	0.89	0.23	0.15	0.71	100
PEFO	0	0.11	71.41	24.86	1.67	0.43	0.29	1.35	100
SAPE	11	0.53	31.25	65.85	1.25	0.32	0.37	0.97	100
WEEL	0	0.19	27.47	68.62	1.71	0.44	0.43	1.34	100
WEMI	3	0.32	28.88	64.08	3.05	0.78	0.84	2.38	100
WHPE	0	0.18	32.46	65.30	0.99	0.25	0.21	0.78	100

PNM SJGS BART Modeling - Unit 2
Nitrate Repartitioning - 1ppb NH3 Background
2001

Pre-Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	19	1.13	18.20	78.08	0.93	0.57	0.76	1.47	100
BAND	4	0.38	28.28	69.40	0.61	0.37	0.37	0.98	100
BLCA	4	0.41	25.05	70.89	1.06	0.64	0.70	1.66	100
CANY	33	1.53	19.28	77.14	0.89	0.54	0.74	1.41	100
CARE	16	0.88	22.11	75.66	0.54	0.33	0.49	0.86	100
GRCA	7	0.39	23.36	74.45	0.55	0.34	0.40	0.90	100
GRSA	0	0.24	25.67	66.55	2.08	1.26	1.19	3.25	100
LAGA	2	0.32	21.64	74.70	0.89	0.54	0.83	1.39	100
MABE	1	0.19	18.16	75.68	1.54	0.94	1.28	2.40	100
MEVE	69	2.32	30.15	60.76	2.09	1.27	2.47	3.25	100
PECO	2	0.34	25.68	71.14	0.88	0.53	0.39	1.38	100
PEFO	2	0.27	33.78	62.13	1.04	0.63	0.75	1.68	100
SAPE	20	0.83	18.87	77.21	0.96	0.58	0.88	1.49	100
WEEL	4	0.33	20.70	76.43	0.73	0.45	0.51	1.18	100
WEMI	5	0.46	25.80	67.31	1.67	1.02	1.61	2.59	100
WHPE	2	0.27	33.82	61.07	1.33	0.81	0.88	2.09	100

Baseline - Consent Decree (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	17	0.85	21.45	76.01	1.10	0.28	0.30	0.85	100
BAND	1	0.28	24.57	72.22	1.47	0.38	0.23	1.13	100
BLCA	3	0.31	27.86	69.56	1.17	0.30	0.21	0.91	100
CANY	27	1.24	21.94	76.75	0.58	0.15	0.11	0.47	100
CARE	14	0.66	21.11	77.26	0.73	0.19	0.14	0.57	100
GRCA	5	0.34	24.25	74.40	0.60	0.15	0.12	0.48	100
GRSA	0	0.16	21.09	77.02	0.84	0.22	0.18	0.66	100
LAGA	0	0.22	24.76	73.54	0.77	0.20	0.14	0.60	100
MABE	0	0.15	19.83	76.38	1.69	0.43	0.39	1.29	100
MEVE	53	1.95	21.71	74.78	1.50	0.38	0.46	1.15	100
PECO	2	0.25	35.11	62.63	1.01	0.26	0.20	0.79	100
PEFO	2	0.19	24.50	73.18	1.03	0.26	0.22	0.80	100
SAPE	10	0.57	20.85	76.73	1.07	0.27	0.26	0.82	100
WEEL	1	0.25	22.39	75.51	0.92	0.24	0.23	0.72	100
WEMI	2	0.34	27.74	65.02	3.17	0.81	0.83	2.43	100
WHPE	2	0.23	29.48	68.86	0.76	0.19	0.10	0.61	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	13	0.68	27.14	69.65	1.39	0.36	0.38	1.08	100
BAND	1	0.23	37.66	57.02	2.36	0.60	0.51	1.84	100
BLCA	1	0.25	34.68	62.11	1.45	0.37	0.26	1.13	100
CANY	24	0.99	27.96	70.35	0.75	0.19	0.15	0.60	100
CARE	10	0.52	26.56	71.26	0.98	0.25	0.19	0.76	100
GRCA	4	0.27	30.48	67.82	0.75	0.19	0.15	0.60	100
GRSA	0	0.13	91.63	4.93	1.52	0.39	0.35	1.18	100
LAGA	0	0.18	31.16	66.70	0.96	0.25	0.17	0.76	100
MABE	0	0.12	25.04	70.17	2.13	0.54	0.49	1.63	100
MEVE	43	1.60	26.96	68.69	1.87	0.48	0.58	1.43	100
PECO	1	0.22	27.00	68.63	1.93	0.49	0.47	1.48	100
PEFO	2	0.17	31.80	66.10	0.91	0.23	0.25	0.71	100
SAPE	7	0.45	26.39	70.54	1.35	0.35	0.34	1.03	100
WEEL	0	0.20	28.26	69.08	1.16	0.30	0.29	0.90	100
WEMI	2	0.27	28.26	68.07	1.56	0.40	0.51	1.20	100
WHPE	1	0.18	36.47	61.47	0.94	0.24	0.12	0.75	100

PNM SJGS BART Modeling - Unit 2
Nitrate Repartitioning - 1 ppb NH3 Background
2002

Pre-Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	13	0.85	19.58	75.93	1.09	0.66	1.04	1.70	100
BAND	14	0.65	30.87	66.96	0.55	0.34	0.39	0.88	100
BLCA	5	0.44	19.30	77.58	0.78	0.47	0.65	1.23	100
CANY	19	1.03	20.17	76.04	0.95	0.58	0.77	1.49	100
CARE	5	0.26	24.89	73.22	0.47	0.28	0.39	0.75	100
GRCA	3	0.26	32.09	66.15	0.45	0.27	0.29	0.75	100
GRSA	0	0.21	25.34	69.74	1.28	0.78	0.83	2.03	100
LAGA	1	0.33	20.10	76.77	0.80	0.49	0.57	1.27	100
MABE	0	0.18	23.56	69.84	1.84	1.12	0.67	2.98	100
MEVE	86	2.59	22.64	71.71	1.34	0.82	1.38	2.10	100
PECO	4	0.42	28.94	64.93	1.63	0.99	0.95	2.57	100
PEFO	2	0.18	24.28	73.28	0.63	0.38	0.39	1.03	100
SAPE	38	1.02	31.96	63.64	1.10	0.67	0.90	1.72	100
WEEL	4	0.33	25.41	68.75	1.51	0.92	1.03	2.38	100
WEMI	16	0.59	39.10	52.36	2.01	1.23	2.17	3.13	100
WHPE	0	0.29	25.62	72.45	0.49	0.30	0.34	0.80	100

Baseline - Consent Decree (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	11	0.67	19.34	78.13	1.11	0.28	0.28	0.86	100
BAND	6	0.48	23.57	72.71	1.65	0.42	0.38	1.27	100
BLCA	4	0.33	22.97	75.68	0.61	0.16	0.10	0.48	100
CANY	16	0.79	21.97	75.77	1.01	0.26	0.22	0.78	100
CARE	3	0.20	88.04	4.45	3.33	0.85	0.73	2.60	100
GRCA	1	0.21	34.59	64.31	0.49	0.13	0.09	0.40	100
GRSA	0	0.15	24.98	73.55	0.66	0.17	0.11	0.53	100
LAGA	0	0.22	24.86	72.46	1.17	0.30	0.32	0.90	100
MABE	0	0.13	25.66	70.00	2.01	0.52	0.21	1.61	100
MEVE	73	2.22	23.14	73.73	1.34	0.34	0.42	1.03	100
PECO	3	0.31	30.12	65.86	1.83	0.47	0.30	1.42	100
PEFO	1	0.14	25.87	72.60	0.69	0.18	0.12	0.56	100
SAPE	22	0.75	35.06	62.13	1.25	0.32	0.28	0.96	100
WEEL	1	0.22	21.76	75.39	1.24	0.32	0.33	0.95	100
WEMI	8	0.51	20.83	77.20	0.85	0.22	0.23	0.66	100
WHPE	0	0.19	28.33	70.45	0.55	0.14	0.11	0.43	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	9	0.53	24.56	72.23	1.41	0.36	0.36	1.09	100
BAND	4	0.39	29.32	66.05	2.05	0.52	0.48	1.58	100
BLCA	2	0.26	26.18	71.36	1.09	0.28	0.25	0.84	100
CANY	15	0.63	27.88	69.24	1.28	0.33	0.28	0.99	100
CARE	1	0.16	33.22	65.30	0.65	0.17	0.15	0.51	100
GRCA	0	0.17	42.18	56.47	0.60	0.15	0.11	0.49	100
GRSA	0	0.13	34.43	61.80	1.70	0.43	0.31	1.32	100
LAGA	0	0.18	84.40	11.79	1.73	0.44	0.29	1.35	100
MABE	0	0.11	87.52	9.48	1.36	0.35	0.24	1.06	100
MEVE	51	1.82	28.91	67.19	1.67	0.43	0.53	1.28	100
PECO	3	0.26	39.06	55.97	2.26	0.58	0.38	1.76	100
PEFO	0	0.11	32.30	65.77	0.86	0.22	0.15	0.70	100
SAPE	13	0.63	42.16	54.46	1.50	0.38	0.34	1.15	100
WEEL	0	0.18	27.35	69.06	1.56	0.40	0.42	1.20	100
WEMI	5	0.41	26.41	71.09	1.08	0.28	0.30	0.84	100
WHPE	0	0.15	35.16	63.32	0.68	0.17	0.13	0.54	100

PNM SJGS BART Modeling - Unit 2
Nitrate Repartitioning - 1ppb NH3 Background
2003

Pre-Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	11	0.78	20.09	75.95	0.94	0.57	0.94	1.50	100
BAND	12	0.65	22.33	73.58	1.04	0.63	0.79	1.63	100
BLCA	7	0.49	20.81	76.57	0.65	0.39	0.55	1.04	100
CANY	16	0.91	28.74	69.37	0.47	0.29	0.36	0.77	100
CARE	5	0.36	24.47	73.71	0.47	0.29	0.24	0.81	100
GRCA	2	0.19	42.19	53.09	1.20	0.73	0.85	1.94	100
GRSA	1	0.20	25.64	72.07	0.57	0.35	0.46	0.91	100
LAGA	2	0.33	34.84	61.60	0.90	0.55	0.70	1.41	100
MABE	0	0.20	17.77	78.88	0.83	0.51	0.71	1.31	100
MEVE	72	2.21	21.10	74.57	0.99	0.60	1.19	1.55	100
PECO	7	0.47	36.46	60.93	0.69	0.42	0.40	1.10	100
PEFO	1	0.16	61.93	32.63	1.41	0.86	0.86	2.30	100
SAPE	23	0.87	20.42	75.46	0.97	0.59	1.03	1.52	100
WEEL	0	0.32	25.28	71.00	0.92	0.56	0.79	1.45	100
WEMI	9	0.53	41.23	39.88	4.51	2.75	4.60	7.02	100
WHPE	2	0.30	27.31	70.64	0.52	0.32	0.39	0.83	100

Baseline - Consent Decree (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	9	0.71	21.29	76.25	1.06	0.27	0.29	0.83	100
BAND	6	0.43	24.61	72.87	1.13	0.29	0.24	0.87	100
BLCA	2	0.36	29.60	69.04	0.60	0.15	0.14	0.47	100
CANY	14	0.70	30.77	68.05	0.52	0.13	0.11	0.42	100
CARE	3	0.28	25.56	73.27	0.52	0.13	0.08	0.44	100
GRCA	0	0.16	69.23	26.85	1.73	0.44	0.37	1.37	100
GRSA	1	0.16	23.97	73.79	1.00	0.26	0.20	0.79	100
LAGA	1	0.24	33.99	64.15	0.83	0.21	0.14	0.67	100
MABE	0	0.12	33.93	64.36	0.75	0.19	0.17	0.59	100
MEVE	62	1.76	38.12	54.00	3.36	0.86	1.09	2.57	100
PECO	4	0.34	23.05	74.83	0.97	0.25	0.15	0.75	100
PEFO	0	0.12	65.07	31.52	1.53	0.39	0.27	1.23	100
SAPE	13	0.65	25.06	72.61	1.00	0.26	0.30	0.77	100
WEEL	0	0.24	17.71	80.05	0.98	0.25	0.25	0.76	100
WEMI	3	0.39	23.31	71.00	2.47	0.63	0.68	1.91	100
WHPE	0	0.23	26.01	72.20	0.80	0.20	0.17	0.62	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	9	0.56	26.91	69.99	1.34	0.34	0.37	1.05	100
BAND	4	0.35	30.79	66.04	1.42	0.36	0.30	1.09	100
BLCA	0	0.29	36.52	61.81	0.74	0.19	0.17	0.58	100
CANY	12	0.57	48.38	49.91	0.75	0.19	0.16	0.60	100
CARE	2	0.23	91.42	0.86	3.36	0.86	0.90	2.59	100
GRCA	0	0.13	39.48	59.01	0.67	0.17	0.12	0.55	100
GRSA	1	0.13	30.08	67.11	1.26	0.32	0.25	0.99	100
LAGA	0	0.19	41.43	56.32	1.02	0.26	0.17	0.81	100
MABE	0	0.10	41.50	56.41	0.92	0.24	0.21	0.72	100
MEVE	54	1.54	44.19	46.66	3.90	1.00	1.27	2.98	100
PECO	1	0.28	45.46	52.55	0.90	0.23	0.15	0.71	100
PEFO	0	0.11	71.41	24.85	1.68	0.43	0.29	1.34	100
SAPE	11	0.52	31.25	65.84	1.25	0.32	0.37	0.96	100
WEEL	0	0.19	27.47	68.61	1.72	0.44	0.43	1.33	100
WEMI	3	0.32	28.88	64.07	3.07	0.78	0.84	2.37	100
WHPE	0	0.18	32.46	65.30	1.00	0.26	0.21	0.78	100

PNM SJGS BART Modeling - Unit 3
Nitrate Repartitioning - 1ppb NH3 Background
2001

Pre-Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	26	1.57	20.29	75.89	0.95	0.58	0.77	1.51	100
BAND	16	0.60	22.77	72.09	1.33	0.82	0.93	2.07	100
BLCA	11	0.68	23.71	71.46	1.22	0.75	0.98	1.89	100
CANY	44	2.01	22.20	74.01	0.93	0.57	0.80	1.48	100
CARE	20	1.30	25.11	72.63	0.55	0.34	0.51	0.86	100
GRCA	9	0.55	27.58	70.19	0.56	0.35	0.41	0.91	100
GRSA	2	0.34	28.57	68.05	0.89	0.55	0.55	1.39	100
LAGA	5	0.48	23.48	73.51	0.76	0.47	0.56	1.21	100
MABE	3	0.28	20.47	72.88	1.66	1.02	1.39	2.58	100
MEVE	105	3.05	41.43	41.99	3.84	2.36	4.42	5.96	100
PECO	10	0.53	29.57	67.24	0.89	0.55	0.35	1.40	100
PEFO	5	0.45	38.33	57.58	1.03	0.63	0.76	1.66	100
SAPE	39	1.23	27.44	69.21	0.82	0.50	0.74	1.28	100
WEEL	7	0.45	32.62	65.62	0.47	0.29	0.26	0.74	100
WEMI	16	0.71	19.95	75.15	1.14	0.70	1.25	1.79	100
WHPE	6	0.44	84.18	10.46	1.34	0.82	1.11	2.10	100

Baseline - Consent Decree (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	21	1.33	19.89	77.74	1.05	0.26	0.23	0.82	100
BAND	5	0.43	22.99	74.02	1.37	0.35	0.22	1.06	100
BLCA	6	0.49	26.43	70.93	1.19	0.30	0.23	0.92	100
CANY	35	1.67	20.87	76.89	0.98	0.25	0.24	0.77	100
CARE	17	0.99	23.26	75.38	0.59	0.15	0.15	0.46	100
GRCA	7	0.44	24.95	73.68	0.61	0.15	0.13	0.48	100
GRSA	0	0.27	28.15	66.77	2.31	0.58	0.39	1.79	100
LAGA	4	0.35	23.76	74.52	0.77	0.20	0.14	0.61	100
MABE	2	0.22	19.97	76.16	1.71	0.43	0.41	1.32	100
MEVE	77	2.42	22.60	75.76	0.70	0.18	0.22	0.54	100
PECO	3	0.39	35.16	62.59	1.01	0.25	0.20	0.79	100
PEFO	4	0.32	35.88	61.57	1.13	0.29	0.23	0.90	100
SAPE	27	0.95	20.25	77.31	1.07	0.27	0.28	0.82	100
WEEL	5	0.36	22.23	75.96	0.81	0.20	0.17	0.64	100
WEMI	9	0.52	28.06	67.78	1.82	0.46	0.49	1.40	100
WHPE	2	0.31	35.74	61.06	1.44	0.36	0.28	1.12	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	19	1.06	25.29	71.70	1.33	0.34	0.30	1.05	100
BAND	2	0.36	27.75	68.32	1.77	0.45	0.34	1.37	100
BLCA	4	0.39	33.01	63.69	1.48	0.37	0.29	1.15	100
CANY	30	1.34	26.45	70.72	1.25	0.31	0.30	0.98	100
CARE	14	0.79	29.44	68.84	0.75	0.19	0.19	0.59	100
GRCA	7	0.35	31.34	66.93	0.76	0.19	0.16	0.61	100
GRSA	0	0.22	34.35	59.46	2.82	0.71	0.47	2.18	100
LAGA	1	0.28	36.53	61.75	0.77	0.19	0.15	0.61	100
MABE	0	0.17	25.19	69.93	2.16	0.55	0.51	1.66	100
MEVE	71	2.11	35.00	59.44	2.37	0.60	0.76	1.82	100
PECO	2	0.33	83.43	12.33	1.90	0.48	0.37	1.48	100
PEFO	2	0.28	88.91	8.61	1.11	0.28	0.22	0.88	100
SAPE	17	0.76	25.65	71.26	1.35	0.34	0.36	1.04	100
WEEL	4	0.29	28.17	69.52	1.02	0.26	0.21	0.81	100
WEMI	4	0.43	38.99	58.82	0.99	0.25	0.18	0.77	100
WHPE	2	0.29	36.01	61.95	0.94	0.24	0.12	0.75	100

PNM SJGS BART Modeling - Unit 3
Nitrate Repartitioning - 1 ppb NH3 Background
2002

Pre-Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	19	1.00	25.02	70.59	1.04	0.64	1.06	1.63	100
BAND	24	0.97	23.54	70.12	1.56	0.96	1.39	2.43	100
BLCA	14	0.63	18.31	77.99	0.89	0.55	0.87	1.39	100
CANY	26	1.21	27.31	69.88	0.70	0.43	0.55	1.12	100
CARE	5	0.40	88.20	1.52	2.56	1.57	2.06	4.08	100
GRCA	4	0.40	38.61	58.67	0.70	0.43	0.46	1.14	100
GRSA	4	0.41	24.01	73.37	0.70	0.43	0.38	1.10	100
LAGA	8	0.50	22.23	71.08	1.69	1.04	1.33	2.63	100
MABE	1	0.27	28.10	68.95	0.76	0.47	0.51	1.21	100
MEVE	109	3.49	24.22	71.80	0.95	0.58	0.98	1.48	100
PECO	11	0.64	31.85	62.09	1.60	0.99	0.94	2.53	100
PEFO	5	0.27	28.59	68.94	0.63	0.39	0.40	1.04	100
SAPE	51	1.48	25.87	69.84	1.06	0.65	0.92	1.66	100
WEEL	7	0.50	29.90	63.98	1.58	0.97	1.06	2.50	100
WEMI	33	1.03	30.27	55.86	3.21	1.97	3.70	4.98	100
WHPE	7	0.45	43.53	54.74	0.44	0.27	0.30	0.72	100

Baseline - Consent Decree (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	13	0.88	21.35	75.89	1.20	0.30	0.33	0.93	100
BAND	16	0.75	32.70	65.95	0.60	0.15	0.12	0.47	100
BLCA	9	0.52	20.78	77.27	0.86	0.22	0.21	0.67	100
CANY	21	1.12	19.54	78.13	1.00	0.25	0.30	0.77	100
CARE	5	0.28	26.39	72.44	0.51	0.13	0.12	0.40	100
GRCA	3	0.30	33.60	65.30	0.49	0.12	0.09	0.40	100
GRSA	0	0.26	25.26	73.28	0.66	0.17	0.11	0.53	100
LAGA	3	0.35	21.53	76.49	0.88	0.22	0.18	0.69	100
MABE	0	0.21	25.68	69.94	2.03	0.51	0.22	1.62	100
MEVE	87	2.86	22.26	75.45	0.99	0.25	0.29	0.77	100
PECO	7	0.48	31.05	65.04	1.78	0.45	0.30	1.39	100
PEFO	4	0.20	25.87	72.60	0.68	0.17	0.12	0.56	100
SAPE	42	1.14	24.39	72.96	1.17	0.29	0.29	0.91	100
WEEL	4	0.39	27.66	68.61	1.67	0.42	0.33	1.31	100
WEMI	22	0.79	19.17	78.62	0.96	0.24	0.28	0.74	100
WHPE	0	0.34	39.79	59.09	0.50	0.13	0.10	0.40	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	12	0.70	26.96	69.56	1.52	0.38	0.41	1.17	100
BAND	12	0.62	39.99	58.36	0.73	0.19	0.15	0.58	100
BLCA	4	0.41	26.34	71.20	1.09	0.27	0.26	0.84	100
CANY	16	0.89	24.83	72.22	1.27	0.32	0.39	0.98	100
CARE	5	0.25	35.22	62.99	0.79	0.20	0.16	0.64	100
GRCA	3	0.25	41.11	57.54	0.60	0.15	0.11	0.49	100
GRSA	0	0.21	85.42	11.36	1.45	0.37	0.27	1.14	100
LAGA	1	0.28	84.33	11.92	1.70	0.43	0.28	1.34	100
MABE	0	0.17	87.28	9.71	1.36	0.34	0.24	1.07	100
MEVE	81	2.37	29.40	66.35	1.82	0.46	0.56	1.40	100
PECO	4	0.40	37.91	57.32	2.17	0.55	0.37	1.69	100
PEFO	1	0.17	93.49	1.65	2.16	0.55	0.44	1.70	100
SAPE	36	0.92	30.47	66.21	1.46	0.37	0.36	1.13	100
WEEL	4	0.31	34.39	61.00	2.07	0.52	0.40	1.61	100
WEMI	12	0.62	24.38	72.80	1.22	0.31	0.35	0.94	100
WHPE	0	0.29	47.75	50.91	0.60	0.15	0.12	0.48	100

PNM SJGS BART Modeling - Unit 3
Nitrate Repartitioning - 1ppb NH3 Background
2003

Pre-Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	16	0.94	23.46	72.52	0.95	0.59	0.97	1.51	100
BAND	25	1.01	24.69	71.07	1.07	0.66	0.83	1.67	100
BLCA	11	0.76	26.94	68.80	1.03	0.63	0.98	1.62	100
CANY	23	1.26	33.30	64.85	0.46	0.29	0.35	0.75	100
CARE	11	0.54	28.70	66.04	1.27	0.78	1.21	2.00	100
GRCA	4	0.31	47.27	48.17	1.16	0.71	0.82	1.87	100
GRSA	3	0.31	43.09	53.30	0.93	0.57	0.66	1.46	100
LAGA	8	0.52	40.55	55.96	0.89	0.55	0.66	1.40	100
MABE	0	0.31	22.87	72.56	1.10	0.68	1.07	1.72	100
MEVE	105	2.92	35.60	56.23	1.91	1.18	2.12	2.97	100
PECO	19	0.75	41.68	55.78	0.67	0.41	0.39	1.06	100
PEFO	3	0.24	32.31	64.02	0.96	0.59	0.54	1.58	100
SAPE	52	1.25	27.23	68.49	1.01	0.62	1.09	1.57	100
WEEL	7	0.44	27.52	68.69	0.93	0.57	0.82	1.46	100
WEMI	22	0.81	27.40	68.93	0.88	0.54	0.85	1.39	100
WHPE	6	0.42	90.31	4.78	1.31	0.80	0.75	2.05	100

Baseline - Consent Decree (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	13	0.84	21.83	75.78	1.03	0.26	0.29	0.81	100
BAND	14	0.78	23.98	73.46	1.14	0.29	0.25	0.88	100
BLCA	10	0.61	24.17	72.43	1.48	0.37	0.40	1.14	100
CANY	17	1.07	23.31	74.92	0.79	0.20	0.16	0.63	100
CARE	7	0.42	26.87	70.05	1.34	0.34	0.35	1.05	100
GRCA	3	0.22	44.53	52.53	1.30	0.33	0.27	1.04	100
GRSA	2	0.23	25.94	72.51	0.72	0.18	0.08	0.56	100
LAGA	4	0.38	37.45	60.36	0.98	0.25	0.21	0.76	100
MABE	0	0.22	19.48	78.52	0.88	0.22	0.21	0.69	100
MEVE	83	2.41	22.51	74.84	1.13	0.28	0.38	0.87	100
PECO	9	0.55	38.31	60.04	0.74	0.19	0.13	0.59	100
PEFO	1	0.19	18.29	79.90	0.82	0.21	0.15	0.64	100
SAPE	32	1.02	21.75	75.73	1.09	0.27	0.33	0.84	100
WEEL	4	0.39	27.03	70.68	1.00	0.25	0.25	0.78	100
WEMI	15	0.58	46.86	41.17	5.19	1.31	1.49	3.99	100
WHPE	3	0.33	34.28	64.31	0.64	0.16	0.09	0.51	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	10	0.67	27.56	69.42	1.30	0.33	0.37	1.02	100
BAND	10	0.63	30.02	66.77	1.43	0.36	0.32	1.10	100
BLCA	7	0.49	30.07	65.71	1.84	0.47	0.49	1.42	100
CANY	15	0.85	29.47	68.28	0.99	0.25	0.21	0.80	100
CARE	3	0.36	91.41	0.86	3.37	0.85	0.91	2.61	100
GRCA	2	0.19	52.07	44.49	1.52	0.38	0.31	1.22	100
GRSA	1	0.19	48.01	49.20	1.25	0.31	0.26	0.97	100
LAGA	1	0.32	44.87	52.50	1.17	0.30	0.26	0.91	100
MABE	0	0.17	24.91	72.54	1.13	0.29	0.26	0.88	100
MEVE	73	2.05	45.59	47.02	3.14	0.79	1.05	2.41	100
PECO	6	0.46	46.04	51.99	0.89	0.23	0.15	0.70	100
PEFO	1	0.16	90.50	5.58	1.76	0.44	0.31	1.41	100
SAPE	20	0.82	27.34	69.48	1.37	0.35	0.41	1.05	100
WEEL	1	0.31	26.97	71.02	0.88	0.22	0.22	0.69	100
WEMI	8	0.52	38.37	51.50	4.46	1.13	1.11	3.43	100
WHPE	2	0.28	92.33	4.11	1.62	0.41	0.27	1.26	100

PNM SJGS BART Modeling - Unit 4
Nitrate Repartitioning - 1ppb NH3 Background
2001

Pre-Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	26	1.60	21.50	74.61	0.98	0.61	0.74	1.56	100
BAND	17	0.60	28.83	68.20	0.75	0.46	0.58	1.18	100
BLCA	11	0.67	23.99	71.26	1.19	0.74	0.96	1.86	100
CANY	45	2.00	21.46	74.32	1.01	0.63	1.00	1.58	100
CARE	21	1.31	25.72	72.08	0.53	0.33	0.50	0.84	100
GRCA	9	0.56	28.24	69.59	0.55	0.34	0.40	0.88	100
GRSA	2	0.35	29.11	67.59	0.87	0.54	0.53	1.36	100
LAGA	5	0.49	26.21	70.21	0.87	0.54	0.81	1.36	100
MABE	3	0.28	20.53	72.95	1.63	1.00	1.36	2.53	100
MEVE	104	3.03	32.66	56.59	2.45	1.51	2.97	3.81	100
PECO	10	0.53	30.14	66.75	0.87	0.53	0.35	1.36	100
PEFO	6	0.45	87.05	9.65	0.84	0.52	0.59	1.35	100
SAPE	41	1.24	21.71	74.16	1.00	0.62	0.96	1.55	100
WEEL	7	0.46	33.46	64.83	0.45	0.28	0.26	0.72	100
WEMI	17	0.70	20.22	74.99	1.12	0.69	1.23	1.75	100
WHPE	6	0.45	84.71	10.19	1.27	0.78	1.05	2.00	100

Baseline - Consent Decree (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	21	1.31	19.89	77.74	1.04	0.27	0.23	0.82	100
BAND	5	0.42	29.25	69.25	0.67	0.17	0.12	0.53	100
BLCA	6	0.48	22.59	74.52	1.28	0.33	0.29	0.99	100
CANY	34	1.66	20.86	76.90	0.98	0.25	0.23	0.77	100
CARE	17	0.99	23.31	75.33	0.59	0.15	0.15	0.46	100
GRCA	7	0.43	24.96	73.66	0.61	0.16	0.13	0.49	100
GRSA	0	0.27	28.12	66.80	2.31	0.59	0.39	1.79	100
LAGA	4	0.35	29.06	69.56	0.62	0.16	0.12	0.49	100
MABE	2	0.22	19.96	76.16	1.71	0.44	0.41	1.32	100
MEVE	77	2.39	22.59	75.77	0.70	0.18	0.22	0.54	100
PECO	3	0.38	35.00	62.75	1.01	0.26	0.20	0.79	100
PEFO	4	0.31	35.90	61.54	1.13	0.29	0.23	0.90	100
SAPE	25	0.94	20.24	77.32	1.06	0.27	0.28	0.82	100
WEEL	5	0.36	22.09	76.08	0.81	0.21	0.17	0.64	100
WEMI	9	0.51	28.05	67.78	1.81	0.47	0.49	1.40	100
WHPE	2	0.30	35.82	60.97	1.44	0.37	0.28	1.12	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	19	1.04	25.29	71.69	1.33	0.34	0.30	1.05	100
BAND	2	0.35	27.75	68.31	1.77	0.46	0.34	1.37	100
BLCA	4	0.39	40.46	57.78	0.76	0.20	0.21	0.59	100
CANY	30	1.33	26.44	70.72	1.24	0.32	0.30	0.98	100
CARE	14	0.79	29.50	68.78	0.75	0.19	0.19	0.59	100
GRCA	7	0.35	31.35	66.92	0.76	0.20	0.16	0.61	100
GRSA	0	0.22	34.31	59.49	2.82	0.73	0.48	2.19	100
LAGA	0	0.28	36.22	62.06	0.77	0.20	0.14	0.61	100
MABE	0	0.17	25.17	69.94	2.16	0.56	0.51	1.67	100
MEVE	71	2.08	41.20	52.01	2.88	0.74	0.95	2.22	100
PECO	2	0.32	83.43	12.33	1.90	0.49	0.37	1.48	100
PEFO	4	0.31	35.90	61.54	1.13	0.29	0.23	0.90	100
SAPE	25	0.94	20.24	77.32	1.06	0.27	0.28	0.82	100
WEEL	4	0.28	28.01	69.68	1.03	0.26	0.21	0.82	100
WEMI	4	0.42	34.54	60.21	2.28	0.59	0.62	1.76	100
WHPE	2	0.28	36.06	61.89	0.94	0.24	0.12	0.75	100

PNM SJGS BART Modeling - Unit 4
Nitrate Repartitioning - 1 ppb NH3 Background
2002

Pre-Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	19	1.05	25.40	70.27	1.03	0.63	1.06	1.61	100
BAND	25	0.98	23.94	69.83	1.54	0.95	1.36	2.39	100
BLCA	14	0.64	18.60	77.81	0.87	0.54	0.84	1.35	100
CANY	26	1.22	27.93	69.33	0.69	0.42	0.54	1.10	100
CARE	5	0.41	88.77	1.47	2.43	1.50	1.95	3.88	100
GRCA	4	0.41	39.46	57.90	0.67	0.42	0.44	1.10	100
GRSA	4	0.39	24.57	72.88	0.69	0.42	0.36	1.08	100
LAGA	7	0.49	23.60	70.60	1.52	0.94	0.97	2.37	100
MABE	2	0.27	28.73	68.37	0.74	0.46	0.50	1.19	100
MEVE	110	3.51	25.67	71.36	0.70	0.43	0.75	1.10	100
PECO	12	0.65	32.51	61.55	1.57	0.97	0.92	2.48	100
PEFO	5	0.27	29.19	68.41	0.62	0.38	0.39	1.02	100
SAPE	51	1.48	26.41	69.38	1.04	0.64	0.90	1.63	100
WEEL	7	0.49	23.62	71.38	1.21	0.74	1.18	1.87	100
WEMI	32	1.03	30.31	56.03	3.16	1.95	3.64	4.91	100
WHPE	7	0.46	44.72	53.60	0.43	0.26	0.29	0.69	100

Baseline - Consent Decree (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	13	0.88	21.33	75.90	1.20	0.31	0.33	0.93	100
BAND	16	0.73	32.71	65.93	0.60	0.16	0.12	0.48	100
BLCA	8	0.51	20.80	77.25	0.85	0.22	0.20	0.67	100
CANY	22	1.11	19.59	78.11	0.99	0.25	0.30	0.76	100
CARE	5	0.27	26.40	72.43	0.51	0.13	0.12	0.40	100
GRCA	3	0.30	33.52	65.38	0.49	0.13	0.09	0.40	100
GRSA	0	0.26	21.36	77.06	0.70	0.18	0.12	0.57	100
LAGA	2	0.35	21.57	76.45	0.88	0.23	0.18	0.70	100
MABE	0	0.21	25.67	69.94	2.02	0.52	0.22	1.63	100
MEVE	87	2.82	22.22	75.49	0.99	0.25	0.29	0.77	100
PECO	7	0.47	31.11	64.97	1.78	0.46	0.30	1.39	100
PEFO	4	0.20	25.88	72.58	0.69	0.18	0.12	0.56	100
SAPE	42	1.11	24.36	72.96	1.17	0.30	0.29	0.91	100
WEEL	4	0.38	27.60	68.66	1.67	0.43	0.33	1.31	100
WEMI	21	0.70	19.58	77.34	1.32	0.34	0.39	1.02	100
WHPE	0	0.34	39.67	59.21	0.50	0.13	0.10	0.40	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	12	0.70	26.94	69.57	1.52	0.39	0.41	1.17	100
BAND	11	0.60	40.00	58.34	0.74	0.19	0.15	0.58	100
BLCA	4	0.40	26.36	71.17	1.08	0.28	0.26	0.84	100
CANY	15	0.89	24.89	72.19	1.25	0.32	0.38	0.97	100
CARE	5	0.25	35.22	62.98	0.79	0.20	0.17	0.64	100
GRCA	3	0.25	41.02	57.63	0.59	0.15	0.11	0.49	100
GRSA	0	0.20	85.37	11.40	1.45	0.37	0.27	1.14	100
LAGA	1	0.28	84.29	11.95	1.70	0.44	0.28	1.34	100
MABE	0	0.17	31.73	62.84	2.50	0.64	0.27	2.01	100
MEVE	80	2.35	29.19	66.58	1.81	0.47	0.56	1.40	100
PECO	4	0.39	37.97	57.24	2.17	0.56	0.37	1.70	100
PEFO	1	0.17	93.49	1.65	2.15	0.56	0.44	1.71	100
SAPE	33	0.90	30.42	66.24	1.46	0.38	0.36	1.14	100
WEEL	3	0.31	34.33	61.06	2.06	0.53	0.40	1.61	100
WEMI	11	0.56	24.79	71.32	1.67	0.43	0.50	1.29	100
WHPE	0	0.28	47.62	51.04	0.60	0.15	0.12	0.48	100

PNM SJGS BART Modeling - Unit 4
Nitrate Repartitioning - 1ppb NH3 Background
2003

Pre-Consent Decree (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	16	0.98	23.74	72.31	0.94	0.58	0.96	1.49	100
BAND	25	1.02	25.26	70.60	1.05	0.65	0.81	1.64	100
BLCA	11	0.77	27.92	69.72	0.59	0.36	0.47	0.93	100
CANY	23	1.28	34.14	64.05	0.45	0.28	0.34	0.73	100
CARE	11	0.55	88.23	0.97	2.61	1.61	2.49	4.09	100
GRCA	4	0.31	48.24	47.35	1.12	0.69	0.80	1.81	100
GRSA	3	0.31	21.75	73.22	1.27	0.79	0.97	2.00	100
LAGA	8	0.52	41.41	55.20	0.86	0.53	0.65	1.35	100
MABE	0	0.28	21.47	75.12	0.83	0.51	0.74	1.31	100
MEVE	105	2.91	35.46	56.73	1.83	1.13	2.01	2.84	100
PECO	19	0.76	42.63	54.92	0.65	0.40	0.37	1.03	100
PEFO	3	0.25	88.57	6.28	1.34	0.83	0.81	2.17	100
SAPE	52	1.27	27.77	68.06	0.98	0.60	1.06	1.53	100
WEEL	7	0.43	28.04	68.26	0.91	0.56	0.81	1.43	100
WEMI	20	0.81	31.12	54.98	3.41	2.10	3.08	5.31	100
WHPE	6	0.42	38.69	59.22	0.56	0.35	0.29	0.90	100

Baseline - Consent Decree (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	13	0.82	21.83	75.77	1.03	0.27	0.29	0.81	100
BAND	14	0.75	23.85	73.57	1.14	0.29	0.25	0.89	100
BLCA	10	0.60	24.32	72.29	1.48	0.38	0.39	1.14	100
CANY	17	1.04	23.31	74.91	0.79	0.20	0.16	0.63	100
CARE	7	0.41	26.82	70.11	1.33	0.34	0.35	1.04	100
GRCA	3	0.22	44.62	52.43	1.30	0.34	0.27	1.04	100
GRSA	1	0.23	25.90	72.56	0.71	0.18	0.08	0.56	100
LAGA	4	0.37	37.40	60.40	0.98	0.25	0.22	0.76	100
MABE	0	0.21	19.50	78.49	0.88	0.23	0.21	0.69	100
MEVE	82	2.34	22.52	74.82	1.13	0.29	0.38	0.87	100
PECO	8	0.54	38.31	60.05	0.74	0.19	0.13	0.59	100
PEFO	1	0.19	18.26	79.92	0.82	0.21	0.15	0.64	100
SAPE	30	1.00	21.78	75.69	1.08	0.28	0.33	0.84	100
WEEL	3	0.36	19.69	78.32	0.88	0.23	0.19	0.69	100
WEMI	15	0.58	28.17	69.86	0.85	0.22	0.26	0.65	100
WHPE	3	0.33	34.29	64.29	0.64	0.17	0.10	0.51	100

SNCR (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	11	0.66	27.56	69.41	1.30	0.34	0.37	1.02	100
BAND	11	0.60	29.87	66.90	1.43	0.37	0.32	1.11	100
BLCA	7	0.48	30.25	65.54	1.84	0.47	0.49	1.42	100
CANY	15	0.83	29.47	68.28	0.99	0.26	0.21	0.80	100
CARE	3	0.35	91.39	0.86	3.36	0.87	0.91	2.61	100
GRCA	2	0.19	52.16	44.40	1.52	0.39	0.31	1.22	100
GRSA	1	0.18	48.14	49.05	1.25	0.32	0.26	0.98	100
LAGA	1	0.31	31.22	65.56	1.43	0.37	0.32	1.10	100
MABE	0	0.17	24.92	72.51	1.13	0.29	0.27	0.88	100
MEVE	72	2.01	45.48	47.12	3.14	0.81	1.04	2.41	100
PECO	5	0.46	46.03	51.99	0.89	0.23	0.15	0.71	100
PEFO	1	0.19	18.26	79.92	0.82	0.21	0.15	0.64	100
SAPE	30	1.00	21.78	75.69	1.08	0.28	0.33	0.84	100
WEEL	1	0.29	25.05	72.43	1.12	0.29	0.24	0.88	100
WEMI	8	0.51	38.32	51.54	4.45	1.15	1.11	3.44	100
WHPE	2	0.27	92.32	4.11	1.62	0.42	0.27	1.26	100