PNM San Juan Generating Station
BART Analysis of Nalco Mobotec NO_x Control Technologies
August 29, 2008

Introduction

In the June 18, 2008 meeting between the Public Service Company of New Mexico (PNM), Black & Veatch (B&V), and the New Mexico Environment Department – Air Quality Bureau (NMED), the NMED requested additional analyses be performed for the Nalco Mobotec NO_x control technologies. Specifically, the NMED requested additional consideration and modeling of the ROFA with Rotamix, Rotamix, and ROFA 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, and the Rotamix technology is a version of SNCR control technology. The NMED requested that ROFA and Rotamix be analyzed separately from other LNB/OFA technology and SNCR, respectively.

Part 1 - Engineering Impact Analysis

At the request of the NMED, an engineering impact analysis was performed for the Nalco Mobotec NO_x control technologies. The results of that impact analysis are shown in Attachment 1. Table 7-1 in Attachment 1 is a modification to the Table 7-1 found in PNM's original BART submittal of June 6, 2007 and also the update submitted on May 30, 2008 to include SNCR. The table has been updated to include the engineering impact of the Nalco Mobotec NO_x control technologies. In addition to Table 7-1, Attachment 1 also includes the least cost curves for all NO_x control technologies evaluated for BART, detailed cost tables for installing Nalco Mobotec NO_x control technologies, cost development notes providing the basis for the ROFA cost estimates, and design concept definitions for each Nalco Mobotec technology.

In the response submitted to the NMED on March 31, 2008, a technical evaluation of the Nalco Mobotec NO_x control technologies was performed. The evaluation performed forms the basis of the engineering impact analysis for this supplemental BART analysis.

The BART analysis is based on the demonstrated experience of the Nalco Mobotec technologies. There is one installation of ROFA in units above 300 MW. This installation is for a confidential Northeast client (570 MW). Also, there is one operating installation of Rotamix in units above 300 MW; Sutton Station Unit 3 (424 MW). It should also be noted that the ROFA and Rotamix applications over 300 MWs both

combust different fuels than SJGS. The Boswell Unit 4 (565 MW) is currently in the process of installing Rotamix, but to B&V's knowledge, the Rotamix system is not in operation yet. It should be noted that the application of Rotamix at Sutton produces higher emissions (lb/MBtu) than the Nalco Mobotec budgetary quote for PNM. There are no units greater than 300 MW in operation with both the ROFA and Rotamix technologies. Nalco Mobotec does have units with ROFA and Rotomix technologies under the 300 MW size, but these units are significantly smaller than the SJGS units and were not considered representative for this discussion.

In the engineering impact analysis, the cost estimates include contingencies to retrofit the ROFA fan to the existing site and the additional auxiliary energy consumption of these fans used to impart kinetic energy to the overfire air system to promote turbulent mixing during combustion. Due to the large additional amount of kinetic energy required for the rotating overfire air system, the auxiliary energy consumed by the ROFA fans is significantly higher than the LNB/OFA system currently installed to meet consent decree requirements.

At NMED's request, the control effectiveness presented in this supplemental BART analysis document for the ROFA, Rotamix, and ROFA with Rotamix technologies are the values from Nalco Mobotec's quotation. The ROFA technologies are based on operating the furnace at a lower burner stoichiometric ratio (BSR) of 0.84 than the currently designed value of 0.90.

Control Effectiveness of Nalco Mobotec Technologies	
Technology	Control Effectiveness (lb/MBtu)
ROFA with Rotamix	0.20
Rotamix	0.23
ROFA	0.26

Also included in the updated Table 7-1 are the cost effectiveness evaluations previously completed and submitted for other NO_x control technologies. The cost effectiveness values are for additional NO_x removal from the consent decree level. As stated previously, this analysis of the Nalco Mobotec technologies was done at the request of the NMED. B&V and PNM do not agree that Nalco Mobotec's offerings should be differentiated from the other vendors that supply overfire air systems and selective non-catalytic reduction systems.

Nalco Mobotec has no specific documented operating experience with the SJGS coal. The fuel burned at SJGS is unique. It does not easily fit into either a bituminous or sub-bituminous fuel category.

As previously mentioned, the new low NO_x burners, which were installed for the consent decree would most likely need to be modified to optimize NO_x performance with the ROFA technology. On August 15, 2008, B&V had a telephone conversation with Nalco Mobotec to better understand how their technology works. In this conversation, Nalco Mobotec stated that their technology can be operated at a lower boiler stoichiometric ratio, in part, because of the changes that they would likely make to the new low NO_x burners. The burner modifications will, in effect, detune the new state-of-the-art B&W low NO_x burners to reduce the NO_x reduction performance by the burner. These changes would consist of physically modifying the burners to improve mixing. This work is typically performed by external consultants hired by Nalco Mobotec to re-design the burner systems. Nalco Mobotec states that this improved mixing will reduce the potential for corrosion and temperature imbalance. This increase in turbulence and mixing at the burner in most cases results in higher flame temperature and more rapid combustion close to the burner. The result would be expected to be less unburned carbon and less potential for flame impingement on the opposite boiler walls which would reduce the potential for fireside waterwall corrosion from overheating and flame impingement. Without these modifications, the previously discussed potential impacts of operating at this lower BSR may include corrosion due to the reducing environment in the boiler and impacts to the steam temperatures due to changing the location of the fireball. It should also be noted that even with the burner modifications, B&V continues to be concerned about the potential for increased slagging as well as the unproven nature of the Nalco Mobotec technology with the SJGS coal and units in this size range.

The control effectiveness used as the evaluation basis in this supplemental BART analysis is dependent on successfully addressing all of these concerns to avoid any negative impacts to the SJGS plant operations and availability rate. Meanwhile, other NO_x control technologies (LNB with OFA) are installed or being installed that have all these technical concerns already addressed.

For Rotamix, there is only one unit with Rotamix above 300 MW. This unit does not produce the low level of NO_x quoted by Nalco Mobotec for PNM. In comparison, Fuel Tech has 17 commercial SNCR only (not in combination with other Fuel Tech technologies) installations and 3 demonstration installations on units greater than 300 MW. Fuel Tech has significantly more experience with SNCR on units in the size range of SJGS. Therefore, B&V and PNM have greater confidence in the performance guarantee quoted by Fuel Tech. B&V and PNM are not comfortable with the technology

risk that PNM would incur if a permit limit was applied to the SJGS that was based on the quote received from Nalco Mobotec. Furthermore, there is not a significant difference between the Fuel Tech quotation and the Nalco Mobotec quotation to warrant the risk that PNM would incur.

Lastly, for the combination of ROFA with Rotamix, the lower control effectiveness value proposed by Nalco Mobotec in comparison to the LNB/OFA with SNCR approach submitted in the May 30, 2008 update is due to the a lower starting (uncontrolled) NO_x level. With the ROFA technology, uncontrolled NO_x for Rotamix is 0.26 lb/MBtu. While for LNB/OFA, the uncontrolled NO_x for SNCR is 0.30 lb/MBtu. Both Rotamix and SNCR then reduces NO_x by approximately 20% to 0.20 lb/MBtu and 0.24 lb/MBtu, respectively. Therefore, it is observed that the incremental NO_x reduction in terms of percentage is very similar between the ROFA with Rotamix and the LNB/OFA with SNCR combinations.

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 four BART modeling analyses in addition to the Wet ESP analysis being submitted separately but coincident with this analysis. 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.

August 29, 2008

Three modeling analyses were performed to provide SJGS plant-wide and unit specific regional haze (visibility) impacts at 16 Class I areas for the ROFA with Rotamix, Rotamix, and ROFA NO_x and WESP PM control technologies (the NO_x and PM analyses were submitted separately). Similar to the May 30, 2008 analyses, these analyses were also based on the November 6, 2007 refinements which included using the nitrate repartitioning methodology and monthly variable background ammonia concentrations.

The modeling refinements contained in this submittal using nitrate repartitioning and the variable ammonia background as well as the previous November 2007, March 2008, and May 30, 2008 submittals supersedes the original June 2007 BART modeling analyses as PNM believes these analyses are more representative of regional conditions in the modeling domain, as well as, allow for a more representative visibility analysis.

Information pertinent to these two refinements has been included in detail in the previous four submittals. Furthermore, at the June 18, 2008 meeting NMED indicated that based on a current ammonia monitoring study conducted by Mark E. Sather of EPA Region VI, the previous analyses provided utilizing the variable ammonia were representative of the surrounding background. Therefore, no other analyses were performed using nitrate repartitioning and constant background ammonia.

Visibility Summary

Based on the refinements methodology consisting of representative background ammonia concentrations and nitrate repartitioning, revised CALPUFF visibility modeling was performed for five cases; pre-consent decree, consent decree (which represents SJGS's BART baseline scenario), ROFA with Rotamix, Rotamix, and ROFA NO_x control technology scenarios. 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 NO_x control technology scenarios. The stack outlet conditions for the NO_x control technology scenarios are included in Attachment 2 and the visibility modeling results are contained in Attachment 3.

SJGS Facility Visibility Summary with Nitrate Repartitioning and Variable Ammonia

The results of the refined visibility modeling for the SJGS plant, assuming the same control technology is installed on all four units, are illustrated in Tables 1 through 6 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 (less than 0.5 dv) at each of the 16 Class I areas when compared to the baseline (consent decree) scenario.

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 6 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 6 for each control technology:

- Pre-consent decree to consent decree.
- Consent decree to additional NO_x control technology alternative scenarios.
- Pre-consent decree to additional NO_x control technology alternative scenarios.

These maximum visibility improvements between the consent decree and the three NO_x control technology scenarios range from 0.04 dv to 0.34 dv of expected visibility improvement above the consent decree scenario. The visibility improvements for each of the Nalco Mobotec control technology options are summarized below:

- Facility improvements with ROFA/Rotamix range from 0.09 dv to 0.34 dv.
- Facility improvements with Rotamix range from 0.09 dv to 0.25 dv.
- Facility improvements with ROFA range from 0.04 dv to 0.21 dv.

The results indicate that adding additional 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 0.34 dv.

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 Nalco Mobotec NO_x control technology for all four units ranges from $464 million/dv to $69 million/dv. The visibility improvements for each of the Nalco Mobotec control technology options are summarized below:

- ROFA/Rotamix range from $369 million/dv to $97 million/dv.
- Rotamix range from $269 million/dv to $69 million/dv.
- ROFA range from $464 million/dv to $82 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, ROFA/Rotamix, Rotamix, and ROFA 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 7-12, 13-18, 19-24, and 25-30 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, in many cases, represent the maximum visibility impact at any of the 16 Class I areas. In addition, this analysis indicates a minimal improvement in visibility impact (less than 0.5 dv) at each of the 16 Class I areas when compared to the baseline (consent decree) scenario.

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 12, 18, 24, and 30. Again, the expected degree of visibility improvement for each control scenario for each unit was determined by the difference between the consent decree's maximum visibility improvement for each receptor at each of the sixteen Class I areas and the specific NO_x control technology scenario's maximum visibility improvement for each receptor at each of the sixteen Class 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 NO_x control scenario for each unit are similar to that of the combined SJGS. The visibility improvements for each scenario are summarized below.

ROFA/Rotamix

- Unit 1 improvements range from 0.02 dv to 0.23 dv.
- Unit 2 improvements range from 0.02 dv to 0.23 dv
- Unit 3 improvements range from 0.05 dv to 0.24 dv
- Unit 4 improvements range from 0.04 dv to 0.24 dv

Rotamix

- Unit 1 improvements range from 0.02 dv to 0.17 dv.
- Unit 2 improvements range from 0.02 dv to 0.18 dv
- Unit 3 improvements range from 0.02 dv to 0.17 dv
- Unit 4 improvements range from 0.03 dv to 0.18 dv

ROFA

- Unit 1 improvements range from 0.01 dv to 0.11 dv.
- Unit 2 improvements range from 0.01 dv to 0.12 dv
- Unit 3 improvements range from 0.0 dv to 0.12 dv
- Unit 4 improvements range from 0.01 dv to 0.12 dv

The results again indicate that adding additional NO_x control technology beyond the consent decree consisting of ROFA/Rotamix, Rotamix, or ROFA 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 additional control technology for each unit is summarized below.

ROFA/Rotamix

- Unit 1 cost range is $322 million/dv to $33 million/dv.
- Unit 2 cost range is $308 million/dv to $29 million/dv.
- Unit 3 cost range is $209 million/dv to $41 million/dv.
- Unit 4 cost range is $224 million/dv to $40 million/dv.

Rotamix

- Unit 1 cost range is $197 million/dv to $21 million/dv.
- Unit 2 cost range is $187 million/dv to $20 million/dv.
- Unit 3 cost range is $214 million/dv to $28 million/dv.
- Unit 4 cost range is $176 million/dv to $27 million/dv.

ROFA

- Unit 1 cost range is $432 million/dv to $30 million/dv.
- Unit 2 cost range is $384 million/dv to $29 million/dv.
- Unit 3 cost range is $1,281 million/dv[1] to $43 million/dv.
- Unit 4 cost range is $512 million/dv to $42 million/dv.

[1] The visibility improvement realized for Unit 3 is 0.004 dv but is illustrated in Attachment 3, Table 24 as 0.00 dv.

Attachment 3 also includes a unit specific summary of the 98th percentile visibility impact for the three modeled technology scenarios (i.e., Pre-Consent Decree, Consent Decree, ROFA/Rotamix, Rotamix, and ROFA 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.

Additional Considerations

The minimal visibility improvements discussed in this document for the variable ammonia case do not merit the large capital expenditure required to install ROFA/Rotamix, Rotamix, or ROFA NO_x control technology. In addition to the high cost and minimal visibility improvements associated with these technologies, 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 are 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, the ROFA NO_x control technology is a LNB/OFA technology in which SJGS already has installed or will soon be in the process of installing on their four generating units. Third, 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.

Fourth, installation of SNCR, ROFA/Rotamix or Rotamix requires ammonia to reduce NO_x emissions. Specifically, in a SNCR system, urea is injected into the boiler and this will decompose into ammonia for the NO_x reduction process. 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.

Fifth, as described in Part 1, the Nalco Mobotec ROFA or ROFA/Rotamix system requires detuning of the new LNB systems coincident with the installation of the ROFA system. This causes a potential negative scenario if a forced outage occurs with the ROFA fan system. Without the ROFA fan to complete the combustion process, the detuned LNB, which has significantly higher NO_x emissions than the tuned LNB, will quite likely result in a forced outage of the unit to avoid exceedance of the NO_x emissions limit. This results in lost generation for PNM. This scenario may be avoided

in a LNB/OFA system since the increase in NO_x emissions when the OFA system is out of service will be minimal when compared to the ROFA system.

Finally, PNM entered into a consent decree with the Grand Canyon Trust, Sierra Club, and NMED on March 10, 2005, to settle alleged violations of the Clean Air Act. For NO_x control, the settlement required installation of state-of-the-art NO_x combustion controls which was deemed to be new LNB with OFA and a NN system. All four units will have these controls installed by the spring of 2009. Due to the nature of the consent decree requiring the approval of and installation of state-of-the-art combustion controls to achieve a specific NO_x emission limit, detuning of this LNB system to increase NO_x emissions as part of the ROFA or ROFA/Rotamix may be prohibited without additional legal action. At a minimum, all parties identified in the consent decree may have to agree to the proposed modification should ROFA or ROFA/Rotamix be determined by NMED to be BART.

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 being conducted by EPA in New Mexico. The conclusion of this study re-iterates and further supports the overall findings of the original June 2007, as well as, the three aforementioned additional submittals, that installation of additional NO_x control technology 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 ROFA/Rotamix, Rotamix, or ROFA NO_x control technology does not yield a benefit nor meet the intended goal of BART. Specifically, these analyses indicate:

- The addition of ROFA/Rotamix, Rotamix, or ROFA NO_x control 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.
- Although B&V has received additional clarifications from Nalco Mobotec on the ROFA technology, B&V and PNM continue to have concerns about the potential

for slag using the ROFA system, Nalco Mobotec's lack of experience with the fuel burned at SJGS, and Nalco Mobotec's minimal experience with units of a similar size to SJGS.

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

Attachment 1

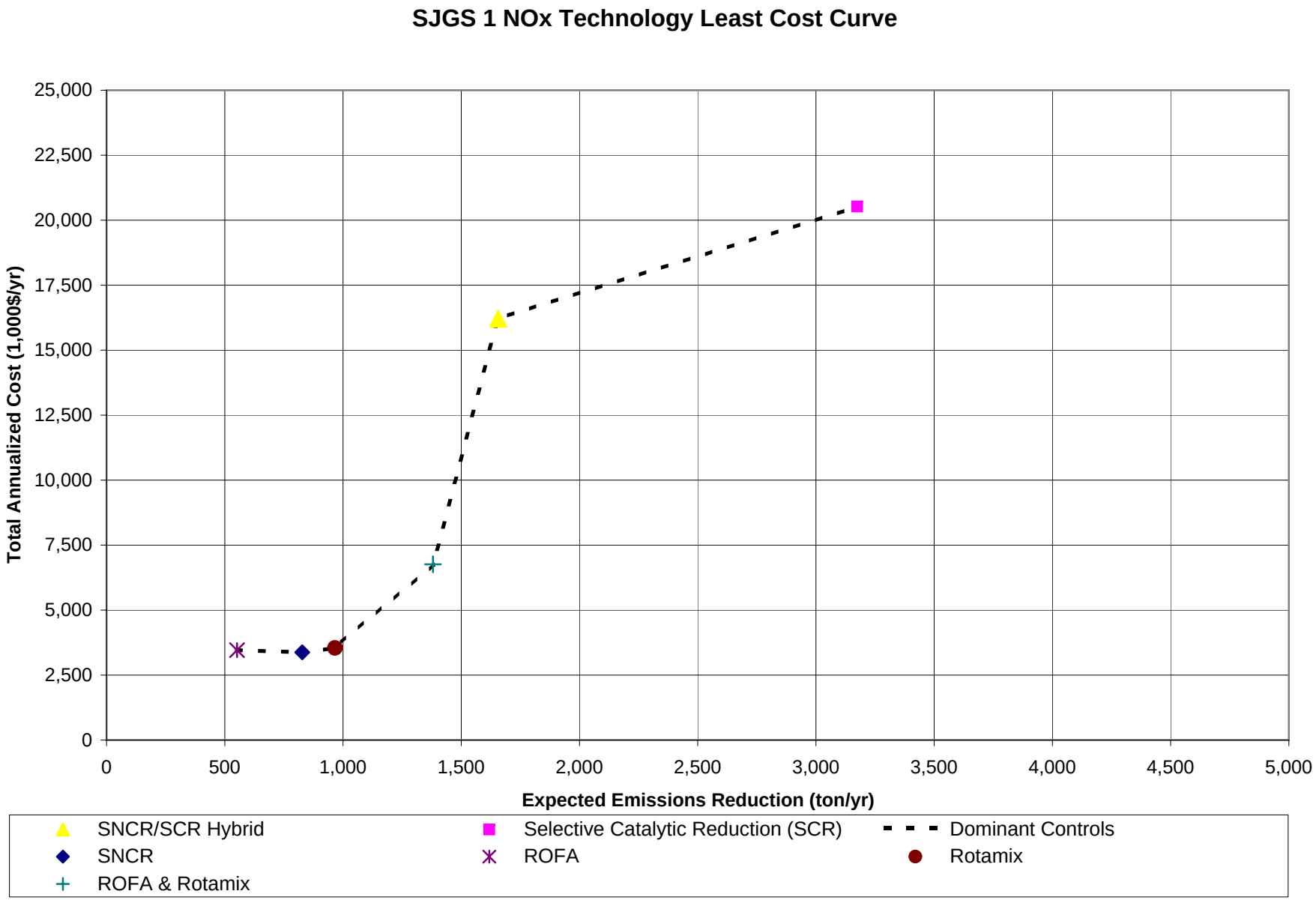
Table 7-1

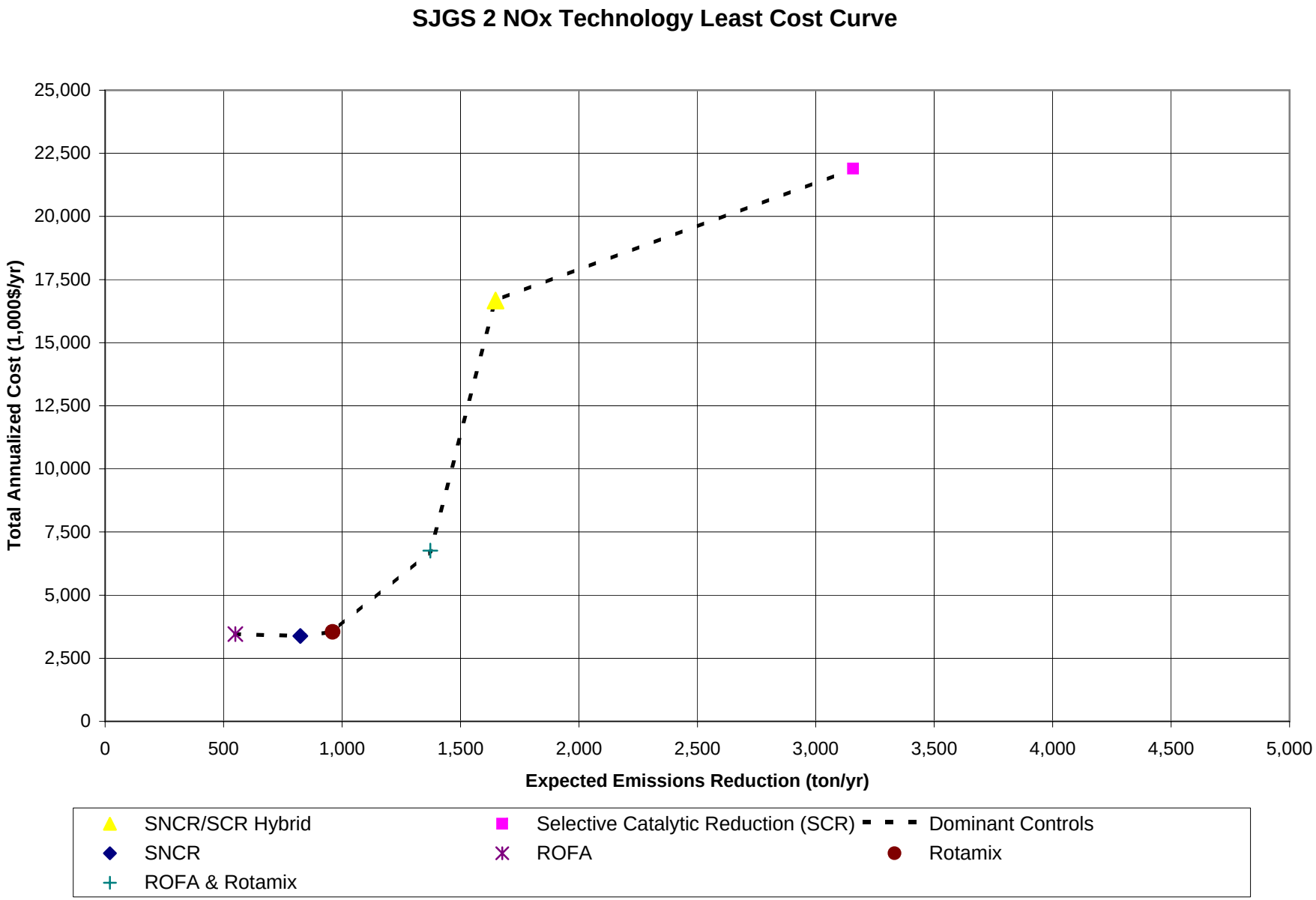
Impact Analysis and Cost Effectiveness Results of Additional NOx Control Technologies for SJGS

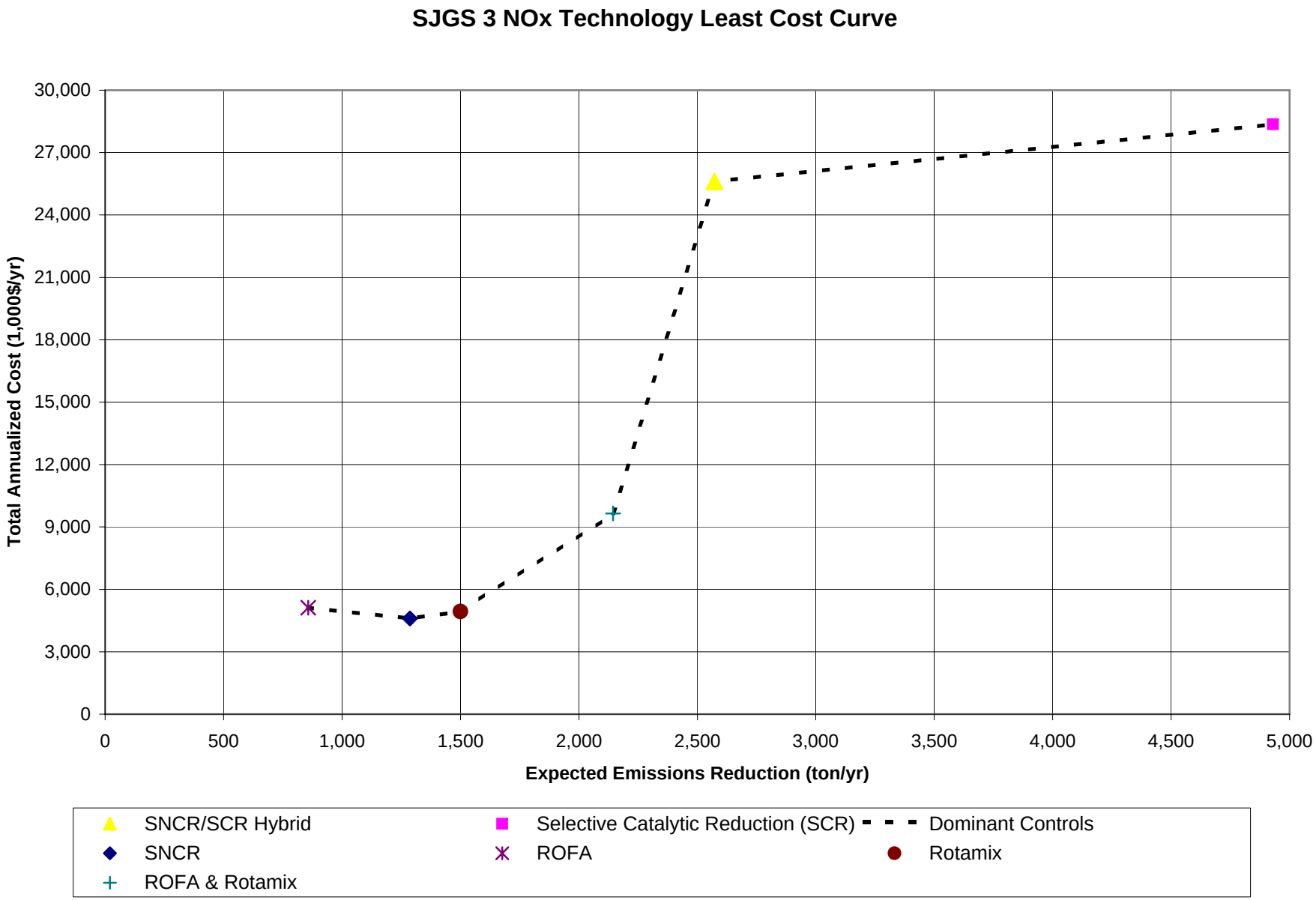
All Feasible Technologies	Emission Performance Level (lb/MBtu)	Expected Emission Rate (lb/h)	Expected Emission Rate (ton/yr)	Expected Emission Reduction (ton/yr)	Total Capital Investment (TCI) (1,000$)	Total Annualized Cost (TAC) (1,000$)	Cost Effectiveness ($/ton)	Incremental Cost Effectiveness ($/ton)	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	34,218	706	1,762
ROFA & Rotamix	0.20	741.4	2,760	1,380	29,350	6,762	4,900	7,765	1,413	3
Rotamix	0.23	852.6	3,174	966	11,306	3,547	3,672	1,210	51	4
SNCR	0.24	889.7	3,312	828	15,321	3,380	4,082	-272	36	--
ROFA	0.26	963.8	3,588	552	18,293	3,455	6,259	--	1,363	--
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	36,080	346	1,762
ROFA & Rotamix	0.20	737.6	2,746	1,373	29,350	6,762	4,925	7,805	1,413	3
Rotamix	0.23	848.2	3,158	961	11,306	3,547	3,690	1,216	51	4
SNCR	0.24	885.1	3,295	824	15,321	3,380	4,103	-273	36	--
ROFA	0.26	958.9	3,570	549	18,293	3,455	6,291	--	1,363	--
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	37,221	507	2,658
ROFA & Rotamix	0.20	1,151.6	4,287	2,144	34,070	9,648	4,501	7,338	2,810	5
Rotamix	0.23	1,324.3	4,931	1,501	13,316	4,929	3,285	1,553	84	5
SNCR	0.24	1,381.9	5,145	1,286	18,977	4,596	3,573	-1,232	36	--
ROFA	0.26	1,497.1	5,574	857	20,983	5,124	5,976	--	2,725	--
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	36,139	507	2,658
ROFA & Rotamix	0.20	1,129.8	4,206	2,103	34,070	9,648	4,587	7,479	2,810	5
Rotamix	0.23	1,299.3	4,837	1,472	13,316	4,929	3,348	1,583	84	5
SNCR	0.24	1,355.8	5,047	1,262	18,977	4,596	3,642	-1,255	36	--
ROFA	0.26	1,468.7	5,468	841	20,983	5,124	6,091	--	2,725	--

Notes:

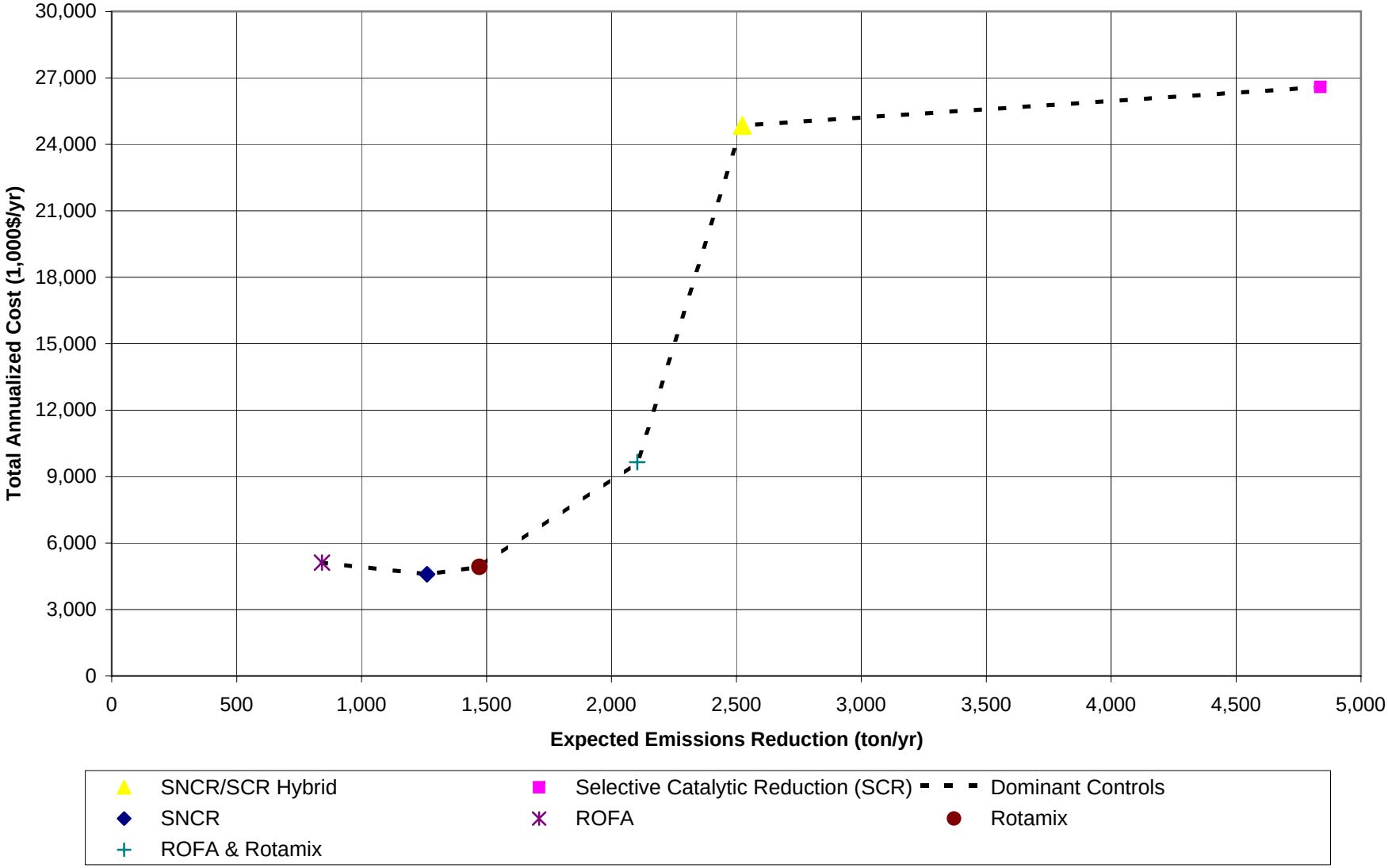
1. All costs are in 2007$.
2. Expected emission rates (ton/yr) calculations were based on 85 percent unit capacity factor (referer to Appendix A Design Basis).
3. Expected emission reduction (ton/yr) calculations were based on the consent decree upgrades control effectiveness as shown in Table 4-1.
4. TCI and TAC are referenced from Appendix C Cost Analysis Summary.
5. Cost-effectiveness ($/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)


SJGS 1 NOx Technology Least Cost Curve
Total Annualized Cost (1,000$/yr)
25,000
22,500
20,000
17,500
15,000
12,500
10,000
7,500
5,000
2,500
0
0
500
1,000
1,500
2,000
2,500
3,000
3,500
4,000
4,500
5,000
Expected Emissions Reduction (ton/yr)
SNCR/SCR Hybrid
Selective Catalytic Reduction (SCR)
Dominant Controls
SNCR
ROFA
Rotamix
ROFA & Rotamix


SJGS 2 NOx Technology Least Cost Curve
Total Annualized Cost (1,000$/yr)
25,000
22,500
20,000
17,500
15,000
12,500
10,000
7,500
5,000
2,500
0
0
500
1,000
1,500
2,000
2,500
3,000
3,500
4,000
4,500
5,000
Expected Emissions Reduction (ton/yr)
SNCR/SCR Hybrid
Selective Catalytic Reduction (SCR)
Dominant Controls
SNCR
ROFA
Rotamix
ROFA & Rotamix


SJGS 3 NOx Technology Least Cost Curve
Total Annualized Cost (1,000$/yr)
30,000
27,000
24,000
21,000
18,000
15,000
12,000
9,000
6,000
3,000
0
0
500
1,000
1,500
2,000
2,500
3,000
3,500
4,000
4,500
5,000
Expected Emissions Reduction (ton/yr)
SNCR/SCR Hybrid
Selective Catalytic Reduction (SCR)
Dominant Controls
SNCR
ROFA
Rotamix
ROFA & Rotamix

SJGS 4 NOx Technology Least Cost Curve



Design Concept Definition

Site Name	San Juan Generating Station	**Units**	1, 2, 3, 4
Client Name	PNM	**Process Technology**	Nalco Mobotec ROFA

Process Description	Nalco Mobotec ROFA technology utilizing rotating, boosted overfire air system with combustion system (burner) modifications.				
	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 (BSR* = 0.84)	0.26	0.26	0.26	0.26
	lb/h (BSR* = 0.84)	964	959	1,497	1,469
	Inlet Flow Basis, acfm	2,082,166	2,082,819	3,205,572	3,144,890
	Pressure Drop Added, in. wg	NA			
	Coal Source and Type	New Mexico, Subbituminous			
	Capacity Factor	85.0%			
Consumables	Reagent, lb/h	NA	NA	NA	NA
	Energy, kW	3,000	3,000	6,000	6,000
	Maintenance	Similar maintenance effort as other combustion control technologies.			
Byproduct	Description	CO and LOI levels to be monitored.			
	Other	None.			

Location of Major Process Equipment	Install ROFA ports above existing close coupled overfire air ports. Overfire air ports will be plugged up and new refractory installed. ROFA booster fans and new air ductwork to ROFA ports will be installed. Modifications to burners as recommended by manufacturer.
Inlet/Outlet Connections and Interconnecting Ducts	Tie-in existing air duct with ROFA booster fans.
Reagent Storage	None.
Control System Modifications	Incorporated into existing control system.
Fan Modifications	New ROFA booster fans.
Power Supply/Aux Power Modifications	New transformer and aux electric system upgrade will be required for the new ROFA booster fans.
Enclosures Requirements	None.
Demolition or Relocation Requirements	Penetrations into boiler wall and as necessary for new air ductwork to ROFA ports.
Major Constructability Issues	Constructing ROFA booster fans in congested plant site layout.
Significant Issues or Challenges	Aux electric system upgrade for new ROFA booster fans and monitoring CO and LOI levels during combustion. Modifications to burners to complement ROFA system operations.

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.
- Boiler/duct penetrations included.
- Minimal impact on potential ash sales.

* BSR – Burner Stoichiometric Ratio

State of Availability	Available.
State of Applicability	Applicable.
Technical Feasibility	ROFA is technically feasible as a variant of the Overfire Air (OFA) system.

Design Concept Definition

Site Name	San Juan Generating Station	**Units**	1, 2, 3, 4
Client Name	PNM	**Process Technology**	Nalco Mobotec Rotamix

Process Description	Nalco Mobotec Rotamix utilizing urea reagent addition into boiler upper-level zones.				
	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	0.23	0.23	0.23	0.23
	lb/h	853	848	1,324	1,299
	Inlet Flow Basis, acfm	2,082,166	2,082,819	3,205,572	3,144,890
	Pressure Drop Added, in. wg	NA			
	Coal Source and Type	New Mexico, Subbituminous			
	Capacity Factor	85.0%			
Consumables	Reagent (urea), lb/h	1,313	1,313	2,062	2,062
	Water, gpm	24	24	37	37
	Energy, kW	112	112	186	186
	Maintenance	3% of direct material cost.			
Byproduct	Description	No impact on ash sales.			
	Other	5ppm ammonia slip.			

Location of Major Process Equipment	Install Rotamix injection nozzles above existing close coupled overfire air ports. Injection skid and reagent tank at grade with truck unloading station.
Inlet/Outlet Connections and Interconnecting Ducts	Tie-in to existing air duct for Rotamix fans.
Reagent Storage	250,000 gallon tank at grade (estimated for 7 days storage).
Control System Modifications	Incorporated into existing control system.
Fan Modifications	New Rotamix fans for reagent system.
Power Supply/Aux Power Modifications	Minimum impact/modifications.
Enclosures Requirements	Enclosed in existing boiler building.
Demolition or Relocation Requirements	Penetrations into boiler wall.
Major Constructability Issues	None.
Significant Issues or Challenges	Ammonia slip may cause buildup of ammonium bisulfate on the air heater, which may require more frequent cleaning. Up to 5 ppm ammonia slip.

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.
- Boiler/duct penetrations included.
- Minimal impact on potential ash sales.

State of Availability	Available.
State of Applicability	Applicable, as an alternate vendor for SNCR.
Technical Feasibility	Rotamix is technically feasible as a variant of the SNCR system.

Design Concept Definition

Site Name	San Juan Generating Station	**Units**	1, 2, 3, 4
Client Name	PNM	**Process Technology**	Nalco Mobotec ROFA with ROTAMIX

Process Description	Nalco Mobotec ROFA with ROTAMIX utilizing urea reagent injection into turbulent boiler upper-level zones.				
	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	0.20	0.20	0.20	0.20
	lb/h	741	738	1,152	1,130
	Inlet Flow Basis, acfm	2,082,166	2,082,819	3,205,572	3,144,890
	Pressure Drop Added, in. wg	NA			
	Coal Source and Type	New Mexico, Subbituminous			
	Capacity Factor	85.0%			
Consumables	Reagent (urea), lb/h	1,142	1,142	1,741	1,741
	Water, gpm	21	21	32	32
	Energy, kW	3,112	3,112	6,186	6,186
	Maintenance	3% of direct material cost.			
Byproduct	Description	No impact on ash sales.			
	Other	5ppm ammonia slip (if ROTAMIX).			

Location of Major Process Equipment	Install ROFA ports above existing close coupled overfire air ports. Install Rotamix injection nozzles above existing close coupled overfire air ports. Injection skid and reagent tank at grade with truck unloading station.
Inlet/Outlet Connections and Interconnecting Ducts	Tie-in to existing air duct.
Reagent Storage	250,000 gallon tank at grade (estimated for 7 days storage).
Control System Modifications	Incorporated into existing control system.
Fan Modifications	New ROFA booster fans.
Power Supply/Aux Power Modifications	New transformer and aux electric system upgrade will be required for the new ROFA booster fans.
Enclosures Requirements	Enclosed in existing boiler building.
Demolition or Relocation Requirements	Penetrations into boiler wall.
Major Constructability Issues	Constructing ROFA booster fans in congested plant site layout.
Significant Issues or Challenges	Ammonia slip may cause buildup of ammonium bisulfate on the air heater, which may require more frequent cleaning. Up to 5 ppm ammonia slip. Modifications to burners to complement ROFA system operations.

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.
- Boiler/duct penetrations included.
- Minimal impact on potential ash sales.

State of Availability	Available.
State of Applicability	Applicable.
Technical Feasibility	See technical feasibility of independent ROFA and Rotamix application.

PNM SJGS BART Analysis - Cost Analysis (Draft)

Technology: ROFA - Unit 1 **Date:** 8/15/2008

Cost Item	$	Remarks/Cost Basis		
CAPITAL COST				
Direct Costs				
Purchased equipment costs				
ROFA system scope:	$6,681,000	Nalco-Mobotec proposal, 2/1/2008		
ROFA fan				
ROFA ports with boiler tube bends				
ROFA ductwork				
Instrumentation for ROFA				
Contingency for combustion system modifications	$125,000	Estimated cost based on 8/15/08 phone call with Nalco Mobotec		
NOx monitoring system	$220,000	B&V cost estimate - see estimating notes		
Electrical system upgrades	$1,159,000	New transformer and electrical upgrades for new ROFA booster fans		
Subtotal capital cost (CC)	$8,185,000			
Gross Receipt Tax	$506,447	(CC) X	6.2%	
Freight	$409,250	(CC) X	5.0%	
Total purchased equipment cost (PEC)	$9,101,000			
Direct installation costs				
Foundation & supports	$252,000	B&V cost estimate - see estimating notes		
Handling & erection	$1,843,000	B&V cost estimate - see estimating notes		
Electrical	$435,000	B&V cost estimate - see estimating notes		
Piping	included	Nalco-Mobotec proposal, 2/1/2008		
Insulation	included	Nalco-Mobotec proposal, 2/1/2008		
Painting	included	Nalco-Mobotec proposal, 2/1/2008		
Demolition	$301,000	B&V cost estimate - see estimating notes		
Relocation	$455,000	(PEC) X	5.0%	
Total direct installation costs (DIC)	$3,286,000			
Total direct costs (DC) = (PEC) + (DIC)	$12,387,000			
Indirect Costs				
Engineering	$1,239,000	(DC) X	10.0%	
Owner's cost	$619,000	(DC) X	5.0%	
Construction management	$619,000	(DC) X	5.0%	
Start-up and spare parts	$248,000	(DC) X	2.0%	
Performance test	$50,000	(DC) X	Engineering estimate	
Contingencies	$2,477,000	(DC) X	20.0%	
Total indirect costs (IC)	$5,252,000			
Interest During Construction (IDC)	$654,000	[(DC)+(IC)] X	7.41%	1 years (project time length X 1/2)
Total Capital Investment (TCI) = (DC) + (IC) + (IDC)	**$18,293,000**			
ANNUAL COST				
Direct Annual Costs				
Fixed annual costs				
Maintenance labor and materials	$310,000	(DC) X	2.5%	
Total fixed annual costs	$310,000			
Variable annual costs				
Auxiliary and ID fan power	$1,363,000	3000 kW and	0.061 $/kWh	Nalco Mobotec prop.
Total variable annual costs	$1,363,000			
Total direct annual costs (DAC)	$1,673,000			
Indirect Annual Costs				
Cost for capital recovery	$1,782,000	(TCI) X	9.74%	CRF at 7.41% interest & 20 year life
Total indirect annual costs (IDAC)	$1,782,000			
Total Annual Cost (TAC) = (DAC) + (IDAC)	**$3,455,000**			

PNM SJGS BART Analysis - Cost Analysis (Draft)

Technology: ROFA - Unit 2 **Date:** 8/15/2008

Cost Item	$	Remarks/Cost Basis		
CAPITAL COST				
Direct Costs				
Purchased equipment costs				
ROFA system scope:	$6,681,000	Nalco-Mobotec proposal, 2/1/2008		
ROFA fan				
ROFA ports with boiler tube bends				
ROFA ductwork				
Instrumentation for ROFA				
Contingency for combustion system modifications	$125,000	Estimated cost based on 8/15/08 phone call with Nalco Mobotec		
NOx monitoring system	$220,000	B&V cost estimate - see estimating notes		
Electrical system upgrades	$1,159,000	New transformer and electrical upgrades for new ROFA booster fans		
Subtotal capital cost (CC)	$8,185,000			
Gross Receipt Tax	$506,447	(CC) X	6.2%	
Freight	$409,250	(CC) X	5.0%	
Total purchased equipment cost (PEC)	$9,101,000			
Direct installation costs				
Foundation & supports	$252,000	B&V cost estimate - see estimating notes		
Handling & erection	$1,843,000	B&V cost estimate - see estimating notes		
Electrical	$435,000	B&V cost estimate - see estimating notes		
Piping	included	Nalco-Mobotec proposal, 2/1/2008		
Insulation	included	Nalco-Mobotec proposal, 2/1/2008		
Painting	included	Nalco-Mobotec proposal, 2/1/2008		
Demolition	$301,000	B&V cost estimate - see estimating notes		
Relocation	$455,000	(PEC) X	5.0%	
Total direct installation costs (DIC)	$3,286,000			
Total direct costs (DC) = (PEC) + (DIC)	$12,387,000			
Indirect Costs				
Engineering	$1,239,000	(DC) X	10.0%	
Owner's cost	$619,000	(DC) X	5.0%	
Construction management	$619,000	(DC) X	5.0%	
Start-up and spare parts	$248,000	(DC) X	2.0%	
Performance test	$50,000	(DC) X	Engineering estimate	
Contingencies	$2,477,000	(DC) X	20.0%	
Total indirect costs (IC)	$5,252,000			
Interest During Construction (IDC)	$654,000	[(DC)+(IC)] X	7.41%	1 years (project time length X 1/2)
Total Capital Investment (TCI) = (DC) + (IC) + (IDC)	**$18,293,000**			
ANNUAL COST				
Direct Annual Costs				
Fixed annual costs				
Maintenance labor and materials	$310,000	(DC) X	2.5%	
Total fixed annual costs	$310,000			
Variable annual costs				
Auxiliary and ID fan power	$1,363,000	3000 kW and	0.061 $/kWh	Nalco Mobotec prop.
Total variable annual costs	$1,363,000			
Total direct annual costs (DAC)	$1,673,000			
Indirect Annual Costs				
Cost for capital recovery	$1,782,000	(TCI) X	9.74%	CRF at 7.41% interest & 20 year life
Total indirect annual costs (IDAC)	$1,782,000			
Total Annual Cost (TAC) = (DAC) + (IDAC)	**$3,455,000**			

PNM SJGS BART Analysis - Cost Analysis (Draft)

Technology: ROFA - Unit 3 **Date:** 8/15/2008

Cost Item	$	Remarks/Cost Basis			
CAPITAL COST					
Direct Costs					
Purchased equipment costs					
ROFA system scope:	$7,651,000	Nalco-Mobotec proposal, 2/1/2008			
ROFA fan					
ROFA ports with boiler tube bends					
ROFA ductwork					
Instrumentation for ROFA					
Contingency for combustion system modifications	$125,000	Estimated cost based on 8/15/08 phone call with Nalco Mobotec			
NOx monitoring system	$220,000	B&V cost estimate - see estimating notes			
Electrical system upgrades	$1,214,000	New transformer and electrical upgrades for new ROFA booster fans			
Subtotal capital cost (CC)	$9,210,000				
Gross Receipt Tax	$569,869	(CC) X	6.2%		
Freight	$460,500	(CC) X	5.0%		
Total purchased equipment cost (PEC)	$10,240,000				
Direct installation costs					
Foundation & supports	$328,000	B&V cost estimate - see estimating notes			
Handling & erection	$2,152,000	B&V cost estimate - see estimating notes			
Electrical	$585,000	B&V cost estimate - see estimating notes			
Piping	included	Nalco-Mobotec proposal, 2/1/2008			
Insulation	included	Nalco-Mobotec proposal, 2/1/2008			
Painting	included	Nalco-Mobotec proposal, 2/1/2008			
Demolition	$396,000	B&V cost estimate - see estimating notes			
Relocation	$512,000	(PEC) X	5.0%		
Total direct installation costs (DIC)	$3,973,000				
Total direct costs (DC) = (PEC) + (DIC)	$14,213,000				
Indirect Costs					
Engineering	$1,421,000	(DC) X	10.0%		
Owner's cost	$711,000	(DC) X	5.0%		
Construction management	$711,000	(DC) X	5.0%		
Start-up and spare parts	$284,000	(DC) X	2.0%		
Performance test	$50,000	(DC) X	Engineering estimate		
Contingencies	$2,843,000	(DC) X	20.0%		
Total indirect costs (IC)	$6,020,000				
Interest During Construction (IDC)	$750,000	[(DC)+(IC)] X	7.41%	1 years (project time length X 1/2)	
Total Capital Investment (TCI) = (DC) + (IC) + (IDC)	**$20,983,000**				
ANNUAL COST					
Direct Annual Costs					
Fixed annual costs					
Maintenance labor and materials	$355,000	(DC) X	2.5%		
Total fixed annual costs	$355,000				
Variable annual costs					
Auxiliary and ID fan power	$2,725,000	6000 kW and	0.061 $/kWh	Nalco-Mobotec prop.	
Total variable annual costs	$2,725,000				
Total direct annual costs (DAC)	$3,080,000				
Indirect Annual Costs					
Cost for capital recovery	$2,044,000	(TCI) X	9.74%	CRF at 7.41% interest & 20 year life	
Total indirect annual costs (IDAC)	$2,044,000				
Total Annual Cost (TAC) = (DAC) + (IDAC)	**$5,124,000**				

PNM SJGS BART Analysis - Cost Analysis (Draft)

Technology: ROFA - Unit 4 **Date:** 8/15/2008

Cost Item	$	Remarks/Cost Basis			
CAPITAL COST					
Direct Costs					
Purchased equipment costs					
ROFA system scope:	$7,651,000	Nalco-Mobotec proposal, 2/1/2008			
ROFA fan					
ROFA ports with boiler tube bends					
ROFA ductwork					
Instrumentation for ROFA					
Contingency for combustion system modifications	$125,000	Estimated cost based on 8/15/08 phone call with Nalco Mobotec			
NOx monitoring system	$220,000	B&V cost estimate - see estimating notes			
Electrical system upgrades	$1,214,000	New transformer and electrical upgrades for new ROFA booster fans			
Subtotal capital cost (CC)	$9,210,000				
Gross Receipt Tax	$569,869	(CC) X	6.2%		
Freight	$460,500	(CC) X	5.0%		
Total purchased equipment cost (PEC)	$10,240,000				
Direct installation costs					
Foundation & supports	$328,000	B&V cost estimate - see estimating notes			
Handling & erection	$2,152,000	B&V cost estimate - see estimating notes			
Electrical	$585,000	B&V cost estimate - see estimating notes			
Piping	included	Nalco-Mobotec proposal, 2/1/2008			
Insulation	included	Nalco-Mobotec proposal, 2/1/2008			
Painting	included	Nalco-Mobotec proposal, 2/1/2008			
Demolition	$396,000	B&V cost estimate - see estimating notes			
Relocation	$512,000	(PEC) X	5.0%		
Total direct installation costs (DIC)	$3,973,000				
Total direct costs (DC) = (PEC) + (DIC)	$14,213,000				
Indirect Costs					
Engineering	$1,421,000	(DC) X	10.0%		
Owner's cost	$711,000	(DC) X	5.0%		
Construction management	$711,000	(DC) X	5.0%		
Start-up and spare parts	$284,000	(DC) X	2.0%		
Performance test	$50,000	(DC) X	Engineering estimate		
Contingencies	$2,843,000	(DC) X	20.0%		
Total indirect costs (IC)	$6,020,000				
Interest During Construction (IDC)	$750,000	[(DC)+(IC)] X	7.41%	1 years (project time length X 1/2)	
Total Capital Investment (TCI) = (DC) + (IC) + (IDC)	**$20,983,000**				
ANNUAL COST					
Direct Annual Costs					
Fixed annual costs					
Maintenance labor and materials	$355,000	(DC) X	2.5%		
Total fixed annual costs	$355,000				
Variable annual costs					
Auxiliary and ID fan power	$2,725,000	6000 kW and	0.061 $/kWh	Nalco-Mobotec prop.	
Total variable annual costs	$2,725,000				
Total direct annual costs (DAC)	$3,080,000				
Indirect Annual Costs					
Cost for capital recovery	$2,044,000	(TCI) X	9.74%	CRF at 7.41% interest & 20 year life	
Total indirect annual costs (IDAC)	$2,044,000				
Total Annual Cost (TAC) = (DAC) + (IDAC)	**$5,124,000**				

PNM SJGS BART Analysis - Cost Analysis (Draft)

Technology: Rotamix - SJGS Unit 1 **Date:** 8/15/2008

Cost Item	$	Remarks/Cost Basis
CAPITAL COST		
Direct Costs		
Purchased equipment costs		
Rotamix system scope:	$2,101,000	Nalco-Mobotec proposal, 2/1/2008
Rotamix fan		
Rotamix ports with boiler tube bends		
Reagent and water storage tanks		
Reagent, water pump skids		
Rotamix injection lances		
Instrumentation for Rotamix		
NOx monitoring system	$220,000	B&V cost estimate - not included in Nalco-Mobotec proposal
Electrical system upgrades	$189,000	B&V cost estimate - for reagent preparation, injection systems
Subtotal capital cost (CC)	$2,510,000	
Gross Receipt Tax	$155,306	(CC) X 6.2%
Freight	$125,500	(CC) X 5.0%
Total purchased equipment cost (PEC)	$2,791,000	
Direct installation costs		
Foundation & supports	$567,000	same cost as SNCR system estimate - 5/5/08
Handling & erection	$1,702,000	same cost as SNCR system estimate - 5/5/08
Electrical	$567,000	same cost as SNCR system estimate - 5/5/08
Piping	included	Nalco-Mobotec proposal, 2/1/2008
Insulation	included	Nalco-Mobotec proposal, 2/1/2008
Painting	included	Nalco-Mobotec proposal, 2/1/2008
Demolition	$284,000	same cost as SNCR system estimate - 5/5/08
Relocation	$113,000	same cost as SNCR system estimate - 5/5/08
Total direct installation costs (DIC)	$3,233,000	
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)	$7,095,000	
Indirect Costs		
Engineering	$708,000	same cost as SNCR system estimate - 5/5/08
Owner's cost	$355,000	(DC) X 5.0%
Construction management	$1,012,000	same cost as SNCR system estimate - 5/5/08
Start-up and spare parts	$213,000	(DC) X 3.0%
Performance test	$100,000	(DC) X Engineering estimate
Contingencies	$1,419,000	(DC) X 20.0%
Total indirect costs (IC)	$3,807,000	
Interest During Construction (IDC)	$404,000	[(DC)+(IC)] X 7.41% 1 years (project time length X 1/2)
Total Capital Investment (TCI) = (DC) + (IC) + (IDC)	**$11,306,000**	
ANNUAL COST		
Direct Annual Costs		
Fixed annual costs		
Operating labor	$125,000	1 FTE and 124,862 $/year Estimated level
Maintenance labor and materials	$213,000	(DC) X 3.0%
Total fixed annual costs	$338,000	
Variable annual costs		
Reagent	$2,053,000	1,313 lb/hr and 420 $/ton Nalco Mobotec prop.
Auxiliary and ID fan power	$51,000	112 kW and 0.061 $/kWh Nalco Mobotec prop.
Water	$4,000	24 gpm and 0.33 $/kgal Nalco Mobotec prop.
Total variable annual costs	$2,108,000	
Total direct annual costs (DAC)	$2,446,000	
Indirect Annual Costs		
Cost for capital recovery	$1,101,000	(TCI) X 9.74% CRF at 7.41% interest & 20 year life
Total indirect annual costs (IDAC)	$1,101,000	
Total Annual Cost (TAC) = (DAC) + (IDAC)	**$3,547,000**	

PNM SJGS BART Analysis - Cost Analysis (Draft)

Technology: Rotamix - SJGS Unit 2 **Date:** 8/15/2008

Cost Item	$	Remarks/Cost Basis
CAPITAL COST		
Direct Costs		
Purchased equipment costs		
Rotamix system scope:	$2,101,000	Nalco-Mobotec proposal, 2/1/2008
Rotamix fan		
Rotamix ports with boiler tube bends		
Reagent and water storage tanks		
Reagent, water pump skids		
Rotamix injection lances		
Instrumentation for Rotamix		
NOx monitoring system	$220,000	B&V cost estimate - not included in Nalco-Mobotec proposal
Electrical system upgrades	$189,000	B&V cost estimate - for reagent preparation, injection systems
Subtotal capital cost (CC)	$2,510,000	
Gross Receipt Tax	$155,306	(CC) X 6.2%
Freight	$125,500	(CC) X 5.0%
Total purchased equipment cost (PEC)	$2,791,000	
Direct installation costs		
Foundation & supports	$567,000	same cost as SNCR system estimate - 5/5/08
Handling & erection	$1,702,000	same cost as SNCR system estimate - 5/5/08
Electrical	$567,000	same cost as SNCR system estimate - 5/5/08
Piping	included	Nalco-Mobotec proposal, 2/1/2008
Insulation	included	Nalco-Mobotec proposal, 2/1/2008
Painting	included	Nalco-Mobotec proposal, 2/1/2008
Demolition	$284,000	same cost as SNCR system estimate - 5/5/08
Relocation	$113,000	same cost as SNCR system estimate - 5/5/08
Total direct installation costs (DIC)	$3,233,000	
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)	$7,095,000	
Indirect Costs		
Engineering	$708,000	same cost as SNCR system estimate - 5/5/08
Owner's cost	$355,000	(DC) X 5.0%
Construction management	$1,012,000	same cost as SNCR system estimate - 5/5/08
Start-up and spare parts	$213,000	(DC) X 3.0%
Performance test	$100,000	(DC) X Engineering estimate
Contingencies	$1,419,000	(DC) X 20.0%
Total indirect costs (IC)	$3,807,000	
Interest During Construction (IDC)	$404,000	[(DC)+(IC)] X 7.41% 1 years (project time length X 1/2)
Total Capital Investment (TCI) = (DC) + (IC) + (IDC)	**$11,306,000**	
ANNUAL COST		
Direct Annual Costs		
Fixed annual costs		
Operating labor	$125,000	1 FTE and 124,862 $/year Estimated level
Maintenance labor and materials	$213,000	(DC) X 3.0%
Total fixed annual costs	$338,000	
Variable annual costs		
Reagent	$2,053,000	1,313 lb/hr and 420 $/ton Nalco Mobotec prop.
Auxiliary and ID fan power	$51,000	112 kW and 0.061 $/kWh Nalco Mobotec prop.
Water	$4,000	24 gpm and 0.33 $/kgal Nalco Mobotec prop.
Total variable annual costs	$2,108,000	
Total direct annual costs (DAC)	$2,446,000	
Indirect Annual Costs		
Cost for capital recovery	$1,101,000	(TCI) X 9.74% CRF at 7.41% interest & 20 year life
Total indirect annual costs (IDAC)	$1,101,000	
Total Annual Cost (TAC) = (DAC) + (IDAC)	**$3,547,000**	

PNM SJGS BART Analysis - Cost Analysis (Draft)

Technology: Rotamix - SJGS Unit 3 **Date:** 8/15/2008

Cost Item	$	Remarks/Cost Basis
CAPITAL COST		
Direct Costs		
Purchased equipment costs		
Rotamix system scope:	$2,337,000	Nalco-Mobotec proposal, 2/1/2008
Rotamix fan		
Rotamix ports with boiler tube bends		
Reagent and water storage tanks		
Reagent, water pump skids		
Rotamix injection lances		
Instrumentation for Rotamix		
NOx monitoring system	$220,000	B&V cost estimate - not included in Nalco-Mobotec proposal
Electrical system upgrades	$242,000	B&V cost estimate - for reagent preparation, injection systems
Subtotal capital cost (CC)	$2,799,000	
Gross Receipt Tax	$173,188	(CC) X 6.2%
Freight	$139,950	(CC) X 5.0%
Total purchased equipment cost (PEC)	$3,112,000	
Direct installation costs		
Foundation & supports	$720,000	same cost as SNCR system estimate - 5/5/08
Handling & erection	$2,159,000	same cost as SNCR system estimate - 5/5/08
Electrical	$720,000	same cost as SNCR system estimate - 5/5/08
Piping	included	Nalco-Mobotec proposal, 2/1/2008
Insulation	included	Nalco-Mobotec proposal, 2/1/2008
Painting	included	Nalco-Mobotec proposal, 2/1/2008
Demolition	$360,000	same cost as SNCR system estimate - 5/5/08
Relocation	$144,000	same cost as SNCR system estimate - 5/5/08
Total direct installation costs (DIC)	$4,103,000	
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)	$8,286,000	
Indirect Costs		
Engineering	$879,000	same cost as SNCR system estimate - 5/5/08
Owner's cost	$414,000	(DC) X 5.0%
Construction management	$1,255,000	same cost as SNCR system estimate - 5/5/08
Start-up and spare parts	$249,000	(DC) X 3.0%
Performance test	$100,000	(DC) X Engineering estimate
Contingencies	$1,657,000	(DC) X 20.0%
Total indirect costs (IC)	$4,554,000	
Interest During Construction (IDC)	$476,000	[(DC)+(IC)] X 7.41% 1 years (project time length X 1/2)
Total Capital Investment (TCI) = (DC) + (IC) + (IDC)	**$13,316,000**	
ANNUAL COST		
Direct Annual Costs		
Fixed annual costs		
Operating labor	$125,000	1 FTE and 124,862 $/year Estimated level
Maintenance labor and materials	$249,000	(DC) X 3.0%
Total fixed annual costs	$374,000	
Variable annual costs		
Reagent	$3,169,000	2,026 lb/hr and 420 $/ton Nalco Mobotec prop.
Auxiliary and ID fan power	$84,000	186 kW and 0.061 $/kWh Nalco Mobotec prop.
Water	$5,000	37 gpm and 0.33 $/1,000 ga Nalco Mobotec prop.
Total variable annual costs	$3,258,000	
Total direct annual costs (DAC)	$3,632,000	
Indirect Annual Costs		
Cost for capital recovery	$1,297,000	(TCI) X 9.74% CRF at 7.41% interest & 20 year life
Total indirect annual costs (IDAC)	$1,297,000	
Total Annual Cost (TAC) = (DAC) + (IDAC)	**$4,929,000**	

PNM SJGS BART Analysis - Cost Analysis (Draft)

Technology: Rotamix - SJGS Unit 4 **Date:** 8/15/2008

Cost Item	$	Remarks/Cost Basis
CAPITAL COST		
Direct Costs		
Purchased equipment costs		
Rotamix system scope:	$2,337,000	Nalco-Mobotec proposal, 2/1/2008
Rotamix fan		
Rotamix ports with boiler tube bends		
Reagent and water storage tanks		
Reagent, water pump skids		
Rotamix injection lances		
Instrumentation for Rotamix		
NOx monitoring system	$220,000	B&V cost estimate - not included in Nalco-Mobotec proposal
Electrical system upgrades	$242,000	B&V cost estimate - for reagent preparation, injection systems
Subtotal capital cost (CC)	$2,799,000	
Gross Receipt Tax	$173,188	(CC) X 6.2%
Freight	$139,950	(CC) X 5.0%
Total purchased equipment cost (PEC)	$3,112,000	
Direct installation costs		
Foundation & supports	$720,000	same cost as SNCR system estimate - 5/5/08
Handling & erection	$2,159,000	same cost as SNCR system estimate - 5/5/08
Electrical	$720,000	same cost as SNCR system estimate - 5/5/08
Piping	included	Nalco-Mobotec proposal, 2/1/2008
Insulation	included	Nalco-Mobotec proposal, 2/1/2008
Painting	included	Nalco-Mobotec proposal, 2/1/2008
Demolition	$360,000	same cost as SNCR system estimate - 5/5/08
Relocation	$144,000	same cost as SNCR system estimate - 5/5/08
Total direct installation costs (DIC)	$4,103,000	
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)	$8,286,000	
Indirect Costs		
Engineering	$879,000	same cost as SNCR system estimate - 5/5/08
Owner's cost	$414,000	(DC) X 5.0%
Construction management	$1,255,000	same cost as SNCR system estimate - 5/5/08
Start-up and spare parts	$249,000	(DC) X 3.0%
Performance test	$100,000	(DC) X Engineering estimate
Contingencies	$1,657,000	(DC) X 20.0%
Total indirect costs (IC)	$4,554,000	
Interest During Construction (IDC)	$476,000	[(DC)+(IC)] X 7.41% 1 years (project time length X 1/2)
Total Capital Investment (TCI) = (DC) + (IC) + (IDC)	**$13,316,000**	
ANNUAL COST		
Direct Annual Costs		
Fixed annual costs		
Operating labor	$125,000	1 FTE and 124,862 $/year Estimated level
Maintenance labor and materials	$249,000	(DC) X 3.0%
Total fixed annual costs	$374,000	
Variable annual costs		
Reagent	$3,169,000	2,026 lb/hr and 420 $/ton Nalco Mobotec prop.
Auxiliary and ID fan power	$84,000	186 kW and 0.061 $/kWh Nalco Mobotec prop.
Water	$5,000	37 gpm and 0.33 $/1,000 ga Nalco Mobotec prop.
Total variable annual costs	$3,258,000	
Total direct annual costs (DAC)	$3,632,000	
Indirect Annual Costs		
Cost for capital recovery	$1,297,000	(TCI) X 9.74% CRF at 7.41% interest & 20 year life
Total indirect annual costs (IDAC)	$1,297,000	
Total Annual Cost (TAC) = (DAC) + (IDAC)	**$4,929,000**	

PNM SJGS BART Analysis - Cost Analysis (Draft)

Technology: ROFA & Rotamix - SJGS Unit 1 **Date:** 8/15/2008

Cost Item	$	Remarks/Cost Basis				
CAPITAL COST						
Direct Costs						
Purchased equipment costs						
ROFA-Rotamix system scope:	$8,782,000	Nalco-Mobotec proposal, 2/1/2008				
ROFA fan						
ROFA ports with boiler tube bends						
ROFA ductwork						
Instrumentation for ROFA						
Rotamix fan						
Rotamix ports with boiler tube bends						
Reagent and water storage tanks						
Reagent, water pump skids						
Rotamix injection lances						
Instrumentation for Rotamix						
Contingency for combustion system modifications	$125,000	ROFA + Rotamix cost				
NOx monitoring system	$220,000	ROFA + Rotamix cost				
Electrical system upgrades	$1,348,000	ROFA + Rotamix cost				
Subtotal capital cost (CC)	$10,475,000					
Gross Receipt Tax	$648,141	(CC) X	6.2%			
Freight	$523,750	(CC) X	5.0%			
Total purchased equipment cost (PEC)	$11,647,000					
Direct installation costs						
Foundation & supports	$819,000	ROFA + Rotamix cost				
Handling & erection	$3,545,000	ROFA + Rotamix cost				
Electrical	$1,002,000	ROFA + Rotamix cost				
Piping	included	Nalco-Mobotec proposal, 2/1/2008				
Insulation	included	Nalco-Mobotec proposal, 2/1/2008				
Painting	included	Nalco-Mobotec proposal, 2/1/2008				
Demolition	$585,000	ROFA + Rotamix cost				
Relocation	$568,000	ROFA + Rotamix cost				
Total direct installation costs (DIC)	$6,519,000					
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)	$19,237,000					
Indirect Costs						
Engineering	$1,947,000	ROFA + Rotamix cost				
Owner's cost	$962,000	(DC) X	5.0%			
Construction management	$1,631,000	ROFA + Rotamix cost				
Start-up and spare parts	$577,000	(DC) X	3.0%			
Performance test	$100,000	(DC) X	Engineering estimate			
Contingencies	$3,847,000	(DC) X	20.0%			
Total indirect costs (IC)	$9,064,000					
Interest During Construction (IDC)	$1,049,000	[(DC)+(IC)] X	7.41%	1	years (project time length X 1/2)	
Total Capital Investment (TCI) = (DC) + (IC) + (IDC)	**$29,350,000**					
ANNUAL COST						
Direct Annual Costs						
Fixed annual costs						
Operating labor	$125,000	1	FTE and	124,862	$/year	Estimated level
Maintenance labor and materials	$577,000	(DC) X	3.0%			
Total fixed annual costs	$702,000					
Variable annual costs						
Reagent	$1,785,000	1,142	lb/hr and	420	$/ton	Nalco Mobotec prop.
Auxiliary and ID fan power	$1,413,000	3,112	kW and	0.061	$/kWh	Nalco Mobotec prop.
Water	$3,000	21	gpm and	0.33	$/1,000 ga	Nalco Mobotec prop.
Total variable annual costs	$3,201,000					
Total direct annual costs (DAC)	$3,903,000					
Indirect Annual Costs						
Cost for capital recovery	$2,859,000	(TCI) X	9.74%	CRF at 7.41% interest & 20 year life		
Total indirect annual costs (IDAC)	$2,859,000					
Total Annual Cost (TAC) = (DAC) + (IDAC)	**$6,762,000**					

PNM SJGS BART Analysis - Cost Analysis (Draft)

Technology: ROFA & Rotamix - SJGS Unit 2 **Date:** 8/15/2008

Cost Item	$	Remarks/Cost Basis
CAPITAL COST		
Direct Costs		
Purchased equipment costs		
ROFA-Rotamix system scope:	$8,782,000	Nalco-Mobotec proposal, 2/1/2008
ROFA fan		
ROFA ports with boiler tube bends		
ROFA ductwork		
Instrumentation for ROFA		
Rotamix fan		
Rotamix ports with boiler tube bends		
Reagent and water storage tanks		
Reagent, water pump skids		
Rotamix injection lances		
Instrumentation for Rotamix		
Contingency for combustion system modifications	$125,000	ROFA + Rotamix cost
NOx monitoring system	$220,000	ROFA + Rotamix cost
Electrical system upgrades	$1,348,000	ROFA + Rotamix cost
Subtotal capital cost (CC)	$10,475,000	
Gross Receipt Tax	$648,141	(CC) X 6.2%
Freight	$523,750	(CC) X 5.0%
Total purchased equipment cost (PEC)	$11,647,000	
Direct installation costs		
Foundation & supports	$819,000	ROFA + Rotamix cost
Handling & erection	$3,545,000	ROFA + Rotamix cost
Electrical	$1,002,000	ROFA + Rotamix cost
Piping	included	Nalco-Mobotec proposal, 2/1/2008
Insulation	included	Nalco-Mobotec proposal, 2/1/2008
Painting	included	Nalco-Mobotec proposal, 2/1/2008
Demolition	$585,000	ROFA + Rotamix cost
Relocation	$568,000	ROFA + Rotamix cost
Total direct installation costs (DIC)	$6,519,000	
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)	$19,237,000	
Indirect Costs		
Engineering	$1,947,000	ROFA + Rotamix cost
Owner's cost	$962,000	(DC) X 5.0%
Construction management	$1,631,000	ROFA + Rotamix cost
Start-up and spare parts	$577,000	(DC) X 3.0%
Performance test	$100,000	(DC) X Engineering estimate
Contingencies	$3,847,000	(DC) X 20.0%
Total indirect costs (IC)	$9,064,000	
Interest During Construction (IDC)	$1,049,000	[(DC)+(IC)] X 7.41% 1 years (project time length X 1/2)
Total Capital Investment (TCI) = (DC) + (IC) + (IDC)	**$29,350,000**	
ANNUAL COST		
Direct Annual Costs		
Fixed annual costs		
Operating labor	$125,000	1 FTE and 124,862 $/year Estimated level
Maintenance labor and materials	$577,000	(DC) X 3.0%
Total fixed annual costs	$702,000	
Variable annual costs		
Reagent	$1,785,000	1,142 lb/hr and 420 $/ton Nalco Mobotec prop.
Auxiliary and ID fan power	$1,413,000	3,112 kW and 0.061 $/kWh Nalco Mobotec prop.
Water	$3,000	21 gpm and 0.33 $/1,000 ga Nalco Mobotec prop.
Total variable annual costs	$3,201,000	
Total direct annual costs (DAC)	$3,903,000	
Indirect Annual Costs		
Cost for capital recovery	$2,859,000	(TCI) X 9.74% CRF at 7.41% interest & 20 year life
Total indirect annual costs (IDAC)	$2,859,000	
Total Annual Cost (TAC) = (DAC) + (IDAC)	**$6,762,000**	

PNM SJGS BART Analysis - Cost Analysis (Draft)

Technology: ROFA & Rotamix - SJGS Unit 3 **Date:** 8/15/2008

Cost Item	$	Remarks/Cost Basis				
CAPITAL COST						
Direct Costs						
Purchased equipment costs						
ROFA-Rotamix system scope:	$9,988,000	Nalco-Mobotec proposal, 2/1/2008				
ROFA fan						
ROFA ports with boiler tube bends						
ROFA ductwork						
Instrumentation for ROFA						
Rotamix fan						
Rotamix ports with boiler tube bends						
Reagent and water storage tanks						
Reagent, water pump skids						
Rotamix injection lances						
Instrumentation for Rotamix						
Contingency for combustion system modifications	$125,000	ROFA + Rotamix cost				
NOx monitoring system	$220,000	ROFA + Rotamix cost				
Electrical system upgrades	$1,456,000	ROFA + Rotamix cost				
Subtotal capital cost (CC)	$11,789,000					
Gross Receipt Tax	$729,444	(CC) X	6.2%			
Freight	$589,450	(CC) X	5.0%			
Total purchased equipment cost (PEC)	$13,108,000					
Direct installation costs						
Foundation & supports	$1,048,000	ROFA + Rotamix cost				
Handling & erection	$4,311,000	ROFA + Rotamix cost				
Electrical	$1,305,000	ROFA + Rotamix cost				
Piping	included	Nalco-Mobotec proposal, 2/1/2008				
Insulation	included	Nalco-Mobotec proposal, 2/1/2008				
Painting	included	Nalco-Mobotec proposal, 2/1/2008				
Demolition	$756,000	ROFA + Rotamix cost				
Relocation	$656,000	ROFA + Rotamix cost				
Total direct installation costs (DIC)	$8,076,000					
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)	$22,255,000					
Indirect Costs						
Engineering	$2,300,000	ROFA + Rotamix cost				
Owner's cost	$1,113,000	(DC) X	5.0%			
Construction management	$1,966,000	ROFA + Rotamix cost				
Start-up and spare parts	$668,000	(DC) X	3.0%			
Performance test	$100,000	(DC) X	Engineering estimate			
Contingencies	$4,451,000	(DC) X	20.0%			
Total indirect costs (IC)	$10,598,000					
Interest During Construction (IDC)	$1,217,000	[(DC)+(IC)] X	7.41%	1	years (project time length X 1/2)	
Total Capital Investment (TCI) = (DC) + (IC) + (IDC)	**$34,070,000**					
ANNUAL COST						
Direct Annual Costs						
Fixed annual costs						
Operating labor	$125,000	1	FTE and	124,862	$/year	Estimated level
Maintenance labor and materials	$668,000	(DC) X	3.0%			
Total fixed annual costs	$793,000					
Variable annual costs						
Reagent	$2,722,000	1,741	lb/hr and	420	$/ton	Nalco Mobotec prop.
Auxiliary and ID fan power	$2,810,000	6,186	kW and	0.061	$/kWh	Nalco Mobotec prop.
Water	$5,000	32	gpm and	0.33	$/1,000 ga	Nalco Mobotec prop.
Total variable annual costs	$5,537,000					
Total direct annual costs (DAC)	$6,330,000					
Indirect Annual Costs						
Cost for capital recovery	$3,318,000	(TCI) X	9.74%	CRF at 7.41% interest & 20 year life		
Total indirect annual costs (IDAC)	$3,318,000					
Total Annual Cost (TAC) = (DAC) + (IDAC)	**$9,648,000**					

PNM SJGS BART Analysis - Cost Analysis (Draft)

Technology: ROFA & Rotamix - SJGS Unit 4 **Date:** 8/15/2008

Cost Item	$	Remarks/Cost Basis				
CAPITAL COST						
Direct Costs						
Purchased equipment costs						
ROFA-Rotamix system scope:	$9,988,000	Nalco-Mobotec proposal, 2/1/2008				
ROFA fan						
ROFA ports with boiler tube bends						
ROFA ductwork						
Instrumentation for ROFA						
Rotamix fan						
Rotamix ports with boiler tube bends						
Reagent and water storage tanks						
Reagent, water pump skids						
Rotamix injection lances						
Instrumentation for Rotamix						
Contingency for combustion system modifications	$125,000	ROFA + Rotamix cost				
NOx monitoring system	$220,000	ROFA + Rotamix cost				
Electrical system upgrades	$1,456,000	ROFA + Rotamix cost				
Subtotal capital cost (CC)	$11,789,000					
Gross Receipt Tax	$729,444	(CC) X	6.2%			
Freight	$589,450	(CC) X	5.0%			
Total purchased equipment cost (PEC)	$13,108,000					
Direct installation costs						
Foundation & supports	$1,048,000	ROFA + Rotamix cost				
Handling & erection	$4,311,000	ROFA + Rotamix cost				
Electrical	$1,305,000	ROFA + Rotamix cost				
Piping	included	Nalco-Mobotec proposal, 2/1/2008				
Insulation	included	Nalco-Mobotec proposal, 2/1/2008				
Painting	included	Nalco-Mobotec proposal, 2/1/2008				
Demolition	$756,000	ROFA + Rotamix cost				
Relocation	$656,000	ROFA + Rotamix cost				
Total direct installation costs (DIC)	$8,076,000					
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)	$22,255,000					
Indirect Costs						
Engineering	$2,300,000	ROFA + Rotamix cost				
Owner's cost	$1,113,000	(DC) X	5.0%			
Construction management	$1,966,000	ROFA + Rotamix cost				
Start-up and spare parts	$668,000	(DC) X	3.0%			
Performance test	$100,000	(DC) X	Engineering estimate			
Contingencies	$4,451,000	(DC) X	20.0%			
Total indirect costs (IC)	$10,598,000					
Interest During Construction (IDC)	$1,217,000	[(DC)+(IC)] X	7.41%	1	years (project time length X 1/2)	
Total Capital Investment (TCI) = (DC) + (IC) + (IDC)	**$34,070,000**					
ANNUAL COST						
Direct Annual Costs						
Fixed annual costs						
Operating labor	$125,000	1	FTE and	124,862	$/year	Estimated level
Maintenance labor and materials	$668,000	(DC) X	3.0%			
Total fixed annual costs	$793,000					
Variable annual costs						
Reagent	$2,722,000	1,741	lb/hr and	420	$/ton	Nalco Mobotec prop.
Auxiliary and ID fan power	$2,810,000	6,186	kW and	0.061	$/kWh	Nalco Mobotec prop.
Water	$5,000	32	gpm and	0.33	$/1,000 ga	Nalco Mobotec prop.
Total variable annual costs	$5,537,000					
Total direct annual costs (DAC)	$6,330,000					
Indirect Annual Costs						
Cost for capital recovery	$3,318,000	(TCI) X	9.74%	CRF at 7.41% interest & 20 year life		
Total indirect annual costs (IDAC)	$3,318,000					
Total Annual Cost (TAC) = (DAC) + (IDAC)	**$9,648,000**					

Estimating Notes for ROFA Cost Estimate

4.1 ROFA System Cost

Inputs:

Nalco Mobotec proposal costs (dated 2/1/2008)

SJGS 1 or 2 ROFA/Rotamix = $8,782,220

SJGS 3 or 4 ROFA/Rotamix = $9,987,917

SJGS 1 or 2 Rotamix only = $2,101,687

SJGS 1 or 2 Rotamix only = $2,336,853

Calculation:

ROFA System Cost = ROFA/Rotamix cost – Rotamix only cost

SJGS 1 or 2 ROFA System Cost = $8,782,220 - $2,101,687 = $6,681,00

SJGS 3 or 4 ROFA System Cost = $9,987,917 - $2,336,853 = $7,651,000

Notes/Remarks:

Reference cost was based on Nalco Mobotec proposal (February 1, 2008) for ROFA/Rotamix and Rotamix only systems.

4.2.a Combustion System Modifications (SJGS 1 or 2)

Inputs:

Reference unit cost (18 burners) = $650,000

(previous B&V project with ROFA)

Reference unit burner heat input = 133.3 MBtu/hr

PNM (U12) burner heat input = 231.7 MBtu/hr

PNM (U12) number of burners = 16

Calculation:

$$PNM\ \cos t = reference_\cos t \times \left(\frac{PNM_burner\#}{reference_burner\#}\right) \times \left(\frac{PNM_burner_heat_input}{ref_burner_heat_input}\right)$$

$$PNM\ \cos t = \$650{,}000 \times \left(\frac{16}{18}\right) \times \left(\frac{231.7}{133.3}\right)$$

$$PNM\ \cos t = \underline{\underline{\$1{,}000{,}000}}$$

4.2.b Combustion System Modifications (SJGS 3 or 4)

Inputs:

Reference unit cost (18 burners) = $650,000

(previous B&V project with ROFA)

Reference unit burner heat input = 133.3 MBtu/hr

PNM (U34) burner heat input = 137.1 MBtu/hr

PNM (U34) number of burners = 42

Calculation:

$$PNM\ \cos t = reference_\cos t \times \left(\frac{PNM_burner\#}{reference_burner\#}\right) \times \left(\frac{PNM_burner_heat_input}{ref_burner_heat_input}\right)$$

$$PNM\ \cos t = \$650{,}000 \times \left(\frac{42}{18}\right) \times \left(\frac{137.1}{133.3}\right)$$

$$PNM\ \cos t = \underline{\underline{\$1{,}500{,}000}}$$

4.3 NOx Monitoring System

Inputs:

Escalation rate = 1.03 (1 year to 2007)

Reference cost = $427,200

Calculation:

$$PNM\ \cos t = escalation_rate \times reference_\cos t$$

$$PNM\ \cos t = 1.03 \times \$427{,}200$$

$$PNM\ \cos t = \underline{\underline{\$440{,}000}}_(SCR)$$

$$PNM\ \cos t = \$440{,}000 / 2 = \$220{,}000_(ROFA)$$

Notes/Remarks:

Reference cost was based on a preliminary quotation. Final awarded contract was $779,450. The final price also included sampling fans at a price of $17,555 for 2 units. Pricing used for SCR cost estimate (2 reactors). Cost for ROFA is for 1 system only (half).

4.4 Electrical System Upgrades

Electrical system upgrades for the ROFA fans are based on the total electrical system modifications and new transformer for the new ID fans in the SCR project cost estimates. This is based on the assumption that similar electrical system upgrades are required for the relatively similar sized fans between the ROFA and SCR projects.

The attached table shows a breakdown of the cost estimate for electrical/control modifications of the PNM SJGS, required if an SCR were installed. The cost estimate was developed based on reference to the project cost of other reference units where B&V performed a balanced draft conversion. A scaling and retrofit factor was used to determine the engineering & material and construction labor costs.

The total direct cost is the summation of the engineering and material, and construction labor costs.

	Reference Unit		SJGS 1 or 2		SJGS 3 or 4	
Balanced Draft Conversion	Engineering & Material	Construction Labor Costs	Engineering & Material	Construction Labor Costs	Engineering & Material	Construction Labor Costs
Electrical/Control Modifications	$285,000	$600,000	$159,000	$335,000	$214,000	$450,000
New transformer (subcontract)			$1,000,000		$1,000,000	

4.5 Direct Installation Costs Development Notes (for SJGS 1 or 2)

4.5.1 Foundation and supports

a. ROFA structural steel = included with Nalco Mobotec ROFA system

b. Foundation for ROFA fans = $200,000

Based on estimated foundation size for ROFA fan

c. New platforms at ROFA ports elevation = $51,750

Quantity of platforms = 2 qty

Estimated platform size (based on plant layout drawings) = 270 ft^2 / 2.5 tons

Platform construction cost (labor + material) = $4,600/ton

Cost per platform = $11,500

Construction indirect = 125% of construction cost (B&V estimating group expected value for this construction scope)

4.5.2 Handling and erection

a. Mobotec installation = $1,592,750 (from Nalco Mobotec proposal,

b. Inventory holding cost = $250,000

Estimated labor for holding = 1 man-year equivalent = $124,862

Estimated material cost for inventory holding = $125,000

4.5.3 Electrical

a. installation cost for new ROFA fans = $435,000

From table in Section 4.4:

Construction labor cost = $335,000

Construction indirect cost = $100,000

4.5.4 Piping

a. included with Nalco Mobotec ROFA system

4.5.5 Insulation

a. included with Nalco Mobotec ROFA system

4.5.6 Painting

a. included with Nalco Mobotec ROFA system

4.5.7 Demolition

a. ductwork demolition cost = $291,600

Estimated ductwork quantity for demolition (based on plant layout drawings) = 160 tons

Estimated man-hour for demolition = 2,880 hours

Labor rate = $45/man-hour

Ductwork demolition cost = $129,600

Construction indirect = 125% of construction cost (B&V estimating group expected value for this construction scope)

b. platform demolition cost = $9,113

Estimated platform quantity for demolition (based on plant layout drawings) = 5 tons

Estimated man-hour for demolition = 90 hours

Labor rate = $45/man-hour

Ductwork demolition cost = $4,050

Construction indirect = 125% of construction cost (B&V estimating group expected value for this construction scope)

4.6 Direct Installation Costs Development Notes (for SJGS 3 or 4)

4.6.1 Foundation and supports

a. ROFA structural steel = included with Nalco Mobotec ROFA system

b. Foundation for ROFA fans = $250,000

Based on estimated foundation size for ROFA fan

c. New platforms at ROFA ports elevation = $77,625

Quantity of platforms = 2 qty

Estimated platform size (based on plant layout drawings) = 360 ft^2 / 3.75 tons

Platform construction cost (labor + material) = $4,600/ton

Cost per platform = $17,250

Construction indirect = 125% of construction cost (B&V estimating group expected value for this construction scope)

4.6.2 Handling and erection

a. Mobotec installation = $1,901,595 (from Nalco Mobotec proposal,

b. Inventory holding cost = $250,000

Estimated labor for holding = 1 man-year equivalent = $124,862

Estimated material cost for inventory holding = $125,000

4.6.3 Electrical

a. installation cost for new ROFA fans = $585,000

From table in Section 4.4:

Construction labor cost = $450,000

Construction indirect cost = $135,000

4.6.4 Piping

a. included with Nalco Mobotec ROFA system

4.6.5 Insulation

a. included with Nalco Mobotec ROFA system

4.6.6 Painting

a. included with Nalco Mobotec ROFA system

4.6.7 Demolition

a. ductwork demolition cost = $382,725

Estimated ductwork quantity for demolition (based on plant layout drawings) = 210 tons

Estimated man-hour for demolition = 3,780 hours

Labor rate = $45/man-hour

Ductwork demolition cost = $170,100

Construction indirect = 125% of construction cost (B&V estimating group expected value for this construction scope)

b. platform demolition cost = $13,669

Estimated platform quantity for demolition (based on plant layout drawings) = 7.5 tons

Estimated man-hour for demolition = 135 hours
Labor rate = $45/man-hour
Ductwork demolition cost = $6,075
Construction indirect = 125% of construction cost (B&V estimating group expected value for this construction scope)

Attachment 2

Public Service Company of New Mexico (PNM) - San Juan Generating Station (SJGS) Unit 1
Best Available Retrofit Technology (BART) Engineering Analysis
Stack Outlet Conditions for Visibility Modeling (24-hour Average Emission Rates) Rev. 7

SJGS Unit 1, Heat Input (HHV) = 3,707 MBtu/hr

Stack Outlet Conditions	Flow (acfm)	Stack Velocity (ft/s)	Temperature (°F)	Pressure (in, wg)	NO_x (lb/MBtu)	NO_x (lb/hr)	SO_2 (lb/MBtu)	SO_2 (lb/hr)	PM (lb/MBtu)	PM (lb/hr)	SO_3 (lb/MBtu)	SO_3 (lb/hr)	NH_3 Slip (ppm)	NH_3 Slip (lb/hr)
Pre-Consent Decree Operation	1,406,021	74	145.00	-0.20	0.43	1,592.0	0.24	877.8	0.050	185.4	0.013	50.0	NA	NA
Visibility Modeling Baseline Case														
Post-Consent Decree Upgrades (LNB/OFA, PJFF)	1,323,494	70	121.42	0.01	0.33	1,223.3	0.18	667.3	0.015	55.6	0.011	40.5	NA	NA
With additional NO_x Control Technologies														
1. Selective Catalytic Reduction (SCR)	1,325,998	70	121.42	0.01	0.07	259.5	0.18	667.3	0.015	55.6	0.031	114.2	2	6.4
2. SNCR/SCR Hybrid	1,324,112	70	121.42	0.01	0.18	667.3	0.18	667.3	0.015	55.6	0.031	114.2	5	15.9
3. ROFA and Rotamix	1,323,851	70	121.42	0.01	0.20	741.4	0.18	667.3	0.015	55.6	0.011	40.5	5	15.9
4. ACT HERT SNCR	1,323,851	70	121.42	0.01	0.20	741.4	0.18	667.3	0.015	55.6	0.011	40.5	5	15.9
4. Rotamix	1,323,904	70	121.42	0.01	0.23	852.6	0.18	667.3	0.015	55.6	0.011	40.5	5	15.9
5. FuelTech SNCR	1,323,904	70	121.42	0.01	0.24	889.7	0.18	667.3	0.015	55.6	0.011	40.5	5	15.9
6. Rotating Overfire Air (ROFA)	1,323,494	70	121.42	0.01	0.26	963.8	0.18	667.3	0.015	55.6	0.011	40.5	5	15.9

Notes

1. Emission levels (lb/MBtu) shown are on a 24-hour average basis.
2. Emission in (lb/hr) is calculated based on the emission level (lb/MBtu) and design basis heat input.
3. Emission levels on a 24-hour average basis are assumed to be similar to the annual average basis.
4. Pre-consent decree operation emission level (lb/MBtu) are based on annual averages from year 2001 to 2003.
5. Post-consent decree upgrades emissions for visibility modeling purpose are based on information provided by PNM, 4/19/2007.
6. Stack velocity is calculated based upon volumetric flowrate and 6.10 m stack diameter.
7. All flow conditions are based on the coal as shown in the Design Basis document.
8. All SO_3 emissions are reported as Sulfuric Acid Mist (H_2SO_4).
9. SO_3 emissions for the pre- and post-consent decree cases are determined using the National Park Service calculation formula.
10. SO_3 emissions for the additional NO_x control technologies with catalyst accounts for an additional 1.0% SO_2 to SO_3 conversion (based on design basis economizer outlet SO_2 levels) and 0% SO_3 removal in PJFF.
11. Pre-CD flue gas flow, temperature, pressure properties were referenced from PM test reports for year 2001 to 2003.

Public Service Company of New Mexico (PNM) - San Juan Generating Station (SJGS) Unit 2
Best Available Retrofit Technology (BART) Engineering Analysis
Stack Outlet Conditions for Visibility Modeling (24-hour Average Emission Rates) Rev. 7

SJGS Unit 2, Heat Input (HHV) = 3,688 MBtu/hr

Stack Outlet Conditions	Flow (acfm)	Stack Velocity (ft/s)	Temperature (°F)	Pressure (in, wg)	NO_x (lb/MBtu)	NO_x (lb/hr)	SO_2 (lb/MBtu)	SO_2 (lb/hr)	PM (lb/MBtu)	PM (lb/hr)	SO_3 (lb/MBtu)	SO_3 (lb/hr)	NH_3 Slip (ppm)	NH_3 Slip (lb/hr)
Pre-Consent Decree Operation	1,444,718	77	148.00	-0.16	0.45	1,649.3	0.23	844.0	0.050	184.4	0.013	49.7	NA	NA
Visibility Modeling Baseline Case														
Post-Consent Decree Upgrades (LNB/OFA, PJFF)	1,316,710	70	121.42	0.01	0.33	1,217.0	0.18	663.8	0.015	55.3	0.011	40.3	NA	NA
With additional NO_x Control Technologies														
1. Selective Catalytic Reduction (SCR)	1,319,201	70	121.42	0.01	0.07	258.2	0.18	663.8	0.015	55.3	0.031	113.6	2	6.4
2. SNCR/SCR Hybrid	1,317,328	70	121.42	0.01	0.18	663.8	0.18	663.8	0.015	55.3	0.031	113.6	5	15.9
3. ROFA and Rotamix	1,317,067	70	121.42	0.01	0.20	737.6	0.18	663.8	0.015	55.3	0.011	40.3	5	15.9
4. ACT HERT SNCR	1,317,067	70	121.42	0.01	0.20	737.6	0.18	663.8	0.015	55.3	0.011	40.3	5	15.9
4. Rotamix	1,317,120	70	121.42	0.01	0.23	848.2	0.18	663.8	0.015	55.3	0.011	40.3	5	15.9
5. FuelTech SNCR	1,317,120	70	121.42	0.01	0.24	885.1	0.18	663.8	0.015	55.3	0.011	40.3	5	15.9
6. Rotating Overfire Air (ROFA)	1,316,710	70	121.42	0.01	0.26	958.9	0.18	663.8	0.015	55.3	0.011	40.3	5	15.9

Notes

1. Emission levels (lb/MBtu) shown are on a 24-hour average basis.
2. Emission in (lb/hr) is calculated based on the emission level (lb/MBtu) and design basis heat input.
3. Emission levels on a 24-hour average basis are assumed to be similar to the annual average basis.
4. Pre-consent decree operation emission level (lb/MBtu) are based on annual averages from year 2001 to 2003.
5. Post-consent decree upgrades emissions for visibility modeling purpose are based on information provided by PNM, 4/19/2007.
6. Stack velocity is calculated based upon volumetric flowrate and 6.10 m stack diameter.
7. All flow conditions are based on the coal as shown in the Design Basis document.
8. All SO_3 emissions are reported as Sulfuric Acid Mist (H_2SO_4).
9. SO_3 emissions for the pre- and post-consent decree cases are determined using the National Park Service calculation formula.
10. SO_3 emissions for the additional NO_x control technologies with catalyst accounts for an additional 1.0% SO_2 to SO_3 conversion (based on design basis economizer outlet SO_2 levels) and 0% SO_3 removal in PJFF.
11. Pre-CD flue gas flow, temperature, pressure properties were referenced from PM test reports for year 2001 to 2003.

Public Service Company of New Mexico (PNM) - San Juan Generating Station (SJGS) Unit 3
Best Available Retrofit Technology (BART) Engineering Analysis
Stack Outlet Conditions for Visibility Modeling (24-hour Average Emission Rates) Rev. 7

SJGS Unit 3, Heat Input (HHV) = 5,758 MBtu/hr

Stack Outlet Conditions	Flow (acfm)	Stack Velocity (ft/s)	Temperature (°F)	Pressure (in, wg)	NO_x (lb/MBtu)	NO_x (lb/hr)	SO_2 (lb/MBtu)	SO_2 (lb/hr)	PM (lb/MBtu)	PM (lb/hr)	SO_3 (lb/MBtu)	SO_3 (lb/hr)	NH_3 Slip (ppm)	NH_3 Slip (lb/hr)
Pre-Consent Decree Operation	2,075,452	56	143.00	-0.22	0.42	2,405.5	0.28	1,591.1	0.050	287.9	0.013	77.7	NA	NA
Visibility Modeling Baseline Case														
Post-Consent Decree Upgrades (LNB/OFA, PJFF)	2,055,753	56	121.42	0.01	0.33	1,900.1	0.18	1,036.4	0.015	86.4	0.011	62.9	NA	NA
With additional NO_x Control Technologies														
1. Selective Catalytic Reduction (SCR)	2,059,643	56	121.42	0.01	0.07	403.1	0.18	1,036.4	0.015	86.4	0.031	177.3	2	9.9
2. SNCR/SCR Hybrid	2,056,712	56	121.42	0.01	0.18	1,036.4	0.18	1,036.4	0.015	86.4	0.031	177.3	5	24.8
3. ROFA and Rotamix	2,056,299	56	121.42	0.01	0.20	1,151.6	0.18	1,036.4	0.015	86.4	0.011	62.9	5	24.8
4. ACT HERT SNCR	2,056,299	56	121.42	0.01	0.20	1,151.6	0.18	1,036.4	0.015	86.4	0.011	62.9	5	24.8
4. Rotamix	2,056,389	56	121.42	0.01	0.23	1,324.3	0.18	1,036.4	0.015	86.4	0.011	62.9	5	24.8
5. FuelTech SNCR	2,056,389	56	121.42	0.01	0.24	1,381.9	0.18	1,036.4	0.015	86.4	0.011	62.9	5	24.8
6. Rotating Overfire Air (ROFA)	2,055,753	56	121.42	0.01	0.26	1,497.1	0.18	1,036.4	0.015	86.4	0.011	62.9	5	24.8

Notes

1. Emission levels (lb/MBtu) shown are on a 24-hour average basis.
2. Emission in (lb/hr) is calculated based on the emission level (lb/MBtu) and design basis heat input.
3. Emission levels on a 24-hour average basis are assumed to be similar to the annual average basis.
4. Pre-consent decree operation emission level (lb/MBtu) are based on annual averages from year 2001 to 2003.
5. Post-consent decree upgrades emissions for visibility modeling purpose are based on information provided by PNM, 4/19/2007.
6. Stack velocity is calculated based upon volumetric flowrate and 6.10 m stack diameter.
7. All flow conditions are based on the coal as shown in the Design Basis document.
8. All SO_3 emissions are reported as Sulfuric Acid Mist (H_2SO_4).
9. SO_3 emissions for the pre- and post-consent decree cases are determined using the National Park Service calculation formula.
10. SO_3 emissions for the additional NO_x control technologies with catalyst accounts for an additional 1.0% SO_2 to SO_3 conversion (based on design basis economizer outlet SO_2 levels) and 0% SO_3 removal in PJFF.
11. Pre-CD flue gas flow, temperature, pressure properties were referenced from PM test reports for year 2001 to 2003.

Public Service Company of New Mexico (PNM) - San Juan Generating Station (SJGS) Unit 4
Best Available Retrofit Technology (BART) Engineering Analysis
Stack Outlet Conditions for Visibility Modeling (24-hour Average Emission Rates) Rev. 7

SJGS Unit 4, Heat Input (HHV) = 5,649 MBtu/hr

Stack Outlet Conditions	Flow (acfm)	Stack Velocity (ft/s)	Temperature (°F)	Pressure (in, wg)	NO_x (lb/MBtu)	NO_x (lb/hr)	SO_2 (lb/MBtu)	SO_2 (lb/hr)	PM (lb/MBtu)	PM (lb/hr)	SO_3 (lb/MBtu)	SO_3 (lb/hr)	NH_3 Slip (ppm)	NH_3 Slip (lb/hr)
Pre-Consent Decree Operation	2,093,240	57	137.00	-0.21	0.42	2,399.6	0.29	1,662.4	0.050	282.5	0.013	76.2	NA	NA
Visibility Modeling Baseline Case														
Post-Consent Decree Upgrades (LNB/OFA, PJFF)	2,016,837	55	121.42	0.01	0.33	1,864.2	0.18	1,016.8	0.015	84.7	0.011	61.7	NA	NA
With additional NO_x Control Technologies														
1. Selective Catalytic Reduction (SCR)	2,020,653	55	121.42	0.01	0.07	395.4	0.18	1,016.8	0.015	84.7	0.031	174.0	2	9.7
2. SNCR/SCR Hybrid	2,017,796	55	121.42	0.01	0.18	1,016.8	0.18	1,016.8	0.015	84.7	0.031	174.0	5	24.3
3. ROFA and Rotamix	2,017,383	55	121.42	0.01	0.20	1,129.8	0.18	1,016.8	0.015	84.7	0.011	61.7	5	24.3
4. ACT HERT SNCR	2,017,383	55	121.42	0.01	0.20	1,129.8	0.18	1,016.8	0.015	84.7	0.011	61.7	5	24.3
4. Rotamix	2,017,473	55	121.42	0.01	0.23	1,299.3	0.18	1,016.8	0.015	84.7	0.011	61.7	5	24.3
5. FuelTech SNCR	2,017,473	55	121.42	0.01	0.24	1,355.8	0.18	1,016.8	0.015	84.7	0.011	61.7	5	24.3
6. Rotating Overfire Air (ROFA)	2,016,837	55	121.42	0.01	0.26	1,468.7	0.18	1,016.8	0.015	84.7	0.011	61.7	5	24.3

Notes

1. Emission levels (lb/MBtu) shown are on a 24-hour average basis.
2. Emission in (lb/hr) is calculated based on the emission level (lb/MBtu) and design basis heat input.
3. Emission levels on a 24-hour average basis are assumed to be similar to the annual average basis.
4. Pre-consent decree operation emission level (lb/MBtu) are based on annual averages from year 2001 to 2003.
5. Post-consent decree upgrades emissions for visibility modeling purpose are based on information provided by PNM, 4/19/2007.
6. Stack velocity is calculated based upon volumetric flowrate and 6.10 m stack diameter.
7. All flow conditions are based on the coal as shown in the Design Basis document.
8. All SO_3 emissions are reported as Sulfuric Acid Mist (H_2SO_4).
9. SO_3 emissions for the pre- and post-consent decree cases are determined using the National Park Service calculation formula.
10. SO_3 emissions for the additional NO_x control technologies with catalyst accounts for an additional 1.0% SO_2 to SO_3 conversion (based on design basis economizer outlet SO_2 levels) and 0% SO_3 removal in PJFF.
11. Pre-CD flue gas flow, temperature, pressure properties were referenced from PM test reports for year 2001 to 2003.

Attachment 3

Table 1 Pre-Consent Decree Modeling Results - Facility 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 - Facility 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 ROFA/Rotamix Visibility Modeling Results - Facility Variable Ammonia Background and Nitrate Repartitioning 98th Percentile Impact for Each Year (dv)					
Class I Area	2001	2002	2003	Average	Maximum
Arches	1.58	1.40	1.25	1.41	1.58
Bandelier	0.88	1.28	1.08	1.08	1.28
Black Canyon	0.82	0.91	0.93	0.89	0.93
Canyonlands	2.10	1.55	1.57	1.74	2.10
Capitol Reef	1.55	0.65	0.93	1.05	1.55
Grand Canyon	0.79	0.63	0.56	0.66	0.79
Great Sand Dunes	0.56	0.60	0.48	0.55	0.60
La Garita	0.68	0.74	0.71	0.71	0.74
Maroon Bells	0.47	0.44	0.40	0.44	0.47
Mesa Verde	3.34	3.18	3.58	3.37	3.58
Pecos	0.82	0.86	0.88	0.85	0.88
Petrified Forest	0.73	0.50	0.49	0.57	0.73
San Pedro	1.28	1.67	1.45	1.47	1.67
West Elk	0.69	0.71	0.65	0.68	0.71
Weminuche	0.97	1.24	1.07	1.09	1.24
Wheeler Peak	0.65	0.69	0.70	0.68	0.70
Overall				**1.08**	**3.58**

Table 4 Rotamix Visibility Modeling Results - Facility Variable Ammonia Background and Nitrate Repartitioning 98th Percentile Impact for Each Year (dv)					
Class I Area	2001	2002	2003	Average	Maximum
Arches	1.61	1.49	1.27	1.45	1.61
Bandelier	0.91	1.35	1.14	1.13	1.35
Black Canyon	0.84	0.98	0.96	0.92	0.98
Canyonlands	2.13	1.60	1.60	1.78	2.13
Capitol Reef	1.62	0.71	0.98	1.10	1.62
Grand Canyon	0.84	0.64	0.57	0.68	0.84
Great Sand Dunes	0.57	0.61	0.51	0.56	0.61
La Garita	0.74	0.79	0.77	0.77	0.79
Maroon Bells	0.50	0.47	0.43	0.47	0.50
Mesa Verde	3.35	3.21	3.58	3.38	3.58
Pecos	0.88	0.92	0.91	0.90	0.92
Petrified Forest	0.77	0.54	0.50	0.60	0.77
San Pedro	1.30	1.77	1.47	1.51	1.77
West Elk	0.73	0.76	0.69	0.73	0.76
Weminuche	1.03	1.32	1.14	1.16	1.32
Wheeler Peak	0.68	0.75	0.74	0.72	0.75
Overall				**1.12**	**3.58**

Table 5 ROFA Visibility Modeling Results - Facility Variable Ammonia Background and Nitrate Repartitioning 98th Percentile Impact for Each Year (dv)					
Class I Area	2001	2002	2003	Average	Maximum
Arches	1.63	1.53	1.29	1.48	1.63
Bandelier	0.94	1.41	1.16	1.17	1.41
Black Canyon	0.86	1.04	0.98	0.96	1.04
Canyonlands	2.17	1.64	1.63	1.81	2.17
Capitol Reef	1.68	0.76	1.04	1.16	1.68
Grand Canyon	0.88	0.68	0.57	0.71	0.88
Great Sand Dunes	0.58	0.65	0.54	0.59	0.65
La Garita	0.79	0.83	0.80	0.81	0.83
Maroon Bells	0.52	0.51	0.46	0.49	0.52
Mesa Verde	3.36	3.23	3.59	3.39	3.59
Pecos	0.93	0.97	0.92	0.94	0.97
Petrified Forest	0.78	0.55	0.50	0.61	0.78
San Pedro	1.32	1.86	1.49	1.56	1.86
West Elk	0.74	0.80	0.74	0.76	0.80
Weminuche	1.05	1.36	1.21	1.21	1.36
Wheeler Peak	0.70	0.79	0.79	0.76	0.79
Overall				**1.15**	**3.59**

Table 6
SJGS Facility 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	ROFA/Rotamix	Rotamix	ROFA	Pre-Consent Decree to Consent Decree	Consent Decree to ROFA/Rotamix	Consent Decree to Rotamix	Consent Decree to ROFA	Pre-Consent Decree to ROFA/Rotamix	Pre-Consent Decree to Rotamix	Pre-Consent Decree to ROFA	Pre-Consent Decree to Consent Decree	Consent Decree to ROFA/Rotamix	Consent Decree to Rotamix	Consent Decree to ROFA	Pre-Consent Decree to ROFA/Rotamix	Pre-Consent Decree to Rotamix	Pre-Consent Decree to ROFA
Arches	1.92	1.69	1.58	1.61	1.63	0.23	0.11	0.09	0.06	0.34	0.31	0.29	224,751,092	293,035,714	199,435,294	281,278,689	247,178,886	217,898,089	236,641,379
Bandelier	1.86	1.56	1.28	1.35	1.41	0.31	0.28	0.21	0.14	0.59	0.52	0.45	167,648,208	116,797,153	81,500,000	120,830,986	143,346,939	132,854,369	152,841,871
Black Canyon	1.40	1.15	0.93	0.98	1.04	0.26	0.22	0.17	0.11	0.48	0.43	0.37	201,835,294	149,181,818	99,134,503	154,576,577	177,448,421	160,610,329	187,502,732
Canyonlands	2.59	2.26	2.10	2.13	2.17	0.33	0.17	0.13	0.09	0.49	0.45	0.42	158,363,077	197,710,843	131,410,853	180,610,526	171,665,988	150,704,846	163,395,238
Capitol Reef	1.97	1.81	1.55	1.62	1.68	0.16	0.25	0.19	0.13	0.42	0.35	0.29	319,677,019	129,212,598	88,753,927	130,977,099	203,103,614	194,375,000	235,020,548
Grand Canyon	1.14	0.97	0.79	0.84	0.88	0.17	0.18	0.13	0.09	0.35	0.30	0.26	304,544,379	185,423,729	128,424,242	190,644,444	243,606,936	227,308,970	264,965,251
Great Sand Dunes	1.00	0.71	0.60	0.61	0.65	0.29	0.11	0.10	0.06	0.40	0.39	0.34	179,331,010	298,363,636	163,000,000	301,017,544	212,312,343	174,987,212	199,494,186
La Garita	1.30	0.94	0.74	0.79	0.83	0.36	0.20	0.16	0.11	0.56	0.52	0.47	142,966,667	163,283,582	109,367,742	154,576,577	150,245,989	132,854,369	145,702,760
Maroon Bells	0.78	0.56	0.47	0.50	0.52	0.22	0.09	0.06	0.04	0.31	0.28	0.26	236,091,743	356,739,130	269,079,365	463,729,730	271,896,774	243,487,544	269,121,569
Mesa Verde	4.85	3.80	3.58	3.58	3.59	1.06	0.22	0.22	0.21	1.28	1.27	1.27	48,692,526	150,550,459	78,846,512	82,490,385	66,108,235	53,789,308	54,249,802
Pecos	1.40	1.09	0.88	0.92	0.97	0.31	0.21	0.18	0.12	0.52	0.48	0.43	168,196,078	155,545,024	96,318,182	140,639,344	163,032,882	141,950,207	160,341,121
Petrified Forest	1.13	0.82	0.73	0.77	0.78	0.31	0.09	0.05	0.04	0.40	0.36	0.35	165,491,961	368,764,045	353,166,667	428,950,000	210,720,000	190,584,958	195,515,670
San Pedro	2.37	2.01	1.67	1.77	1.86	0.36	0.34	0.25	0.15	0.70	0.61	0.51	142,966,667	96,529,412	68,631,579	111,415,584	120,411,429	112,718,287	133,513,619
West Elk	1.15	0.91	0.71	0.76	0.80	0.24	0.21	0.16	0.11	0.44	0.40	0.35	216,252,101	159,320,388	107,291,139	154,576,577	189,837,838	172,777,778	196,636,103
Weminuche	1.85	1.48	1.24	1.32	1.36	0.37	0.24	0.16	0.12	0.62	0.53	0.49	138,727,763	134,508,197	104,641,975	145,406,780	137,053,659	128,367,730	140,339,468
Wheeler Peak	1.05	0.89	0.70	0.75	0.79	0.16	0.19	0.14	0.10	0.35	0.30	0.26	323,698,113	169,175,258	117,722,222	168,215,686	238,776,204	225,808,581	262,934,866

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	(Includes LNB/OFA/NN and PJFF)
Consent Decree to ROFA/Rotamix	$32,820	
Consent Decree to Rotamix	$16,952	
Consent Decree to ROFA	$17,158	
Pre-Consent Decree to ROFA/Rotamix	$84,288	
Pre-Consent Decree to Rotamix	$68,420	
Pre-Consent Decree to ROFA	$68,626	

Table 7 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 8
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 9 ROFA/Rotamix 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	0.52	0.39	0.42	0.44	0.52
Bandelier	0.18	0.30	0.27	0.25	0.30
Black Canyon	0.20	0.20	0.21	0.20	0.21
Canyonlands	0.80	0.47	0.45	0.57	0.80
Capitol Reef	0.41	0.13	0.21	0.25	0.41
Grand Canyon	0.20	0.13	0.12	0.15	0.20
Great Sand Dunes	0.11	0.12	0.10	0.11	0.12
La Garita	0.15	0.16	0.16	0.15	0.16
Maroon Bells	0.10	0.09	0.08	0.09	0.10
Mesa Verde	1.13	1.17	1.03	1.11	1.17
Pecos	0.17	0.19	0.22	0.19	0.22
Petrified Forest	0.16	0.10	0.10	0.12	0.16
San Pedro	0.32	0.44	0.39	0.39	0.44
West Elk	0.17	0.14	0.15	0.15	0.17
Weminuche	0.23	0.34	0.27	0.28	0.34
Wheeler Peak	0.15	0.13	0.16	0.14	0.16
Overall				**0.29**	**1.17**

Table 10 Rotamix 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	0.56	0.43	0.44	0.48	0.56
Bandelier	0.20	0.32	0.29	0.27	0.32
Black Canyon	0.22	0.22	0.22	0.22	0.22
Canyonlands	0.85	0.51	0.48	0.61	0.85
Capitol Reef	0.45	0.14	0.21	0.27	0.45
Grand Canyon	0.21	0.14	0.12	0.16	0.21
Great Sand Dunes	0.12	0.12	0.11	0.12	0.12
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	1.17	1.23	1.11	1.17	1.23
Pecos	0.18	0.20	0.23	0.21	0.23
Petrified Forest	0.16	0.11	0.10	0.12	0.16
San Pedro	0.35	0.47	0.42	0.41	0.47
West Elk	0.18	0.16	0.16	0.17	0.18
Weminuche	0.25	0.36	0.30	0.30	0.36
Wheeler Peak	0.16	0.14	0.17	0.15	0.17
Overall				**0.31**	**1.23**

Table 11 ROFA 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	0.60	0.46	0.46	0.51	0.60
Bandelier	0.22	0.34	0.32	0.29	0.34
Black Canyon	0.24	0.24	0.24	0.24	0.24
Canyonlands	0.90	0.55	0.50	0.65	0.90
Capitol Reef	0.48	0.16	0.22	0.29	0.48
Grand Canyon	0.23	0.15	0.12	0.16	0.23
Great Sand Dunes	0.12	0.13	0.12	0.13	0.13
La Garita	0.17	0.18	0.18	0.18	0.18
Maroon Bells	0.12	0.10	0.09	0.10	0.12
Mesa Verde	1.25	1.29	1.17	1.23	1.29
Pecos	0.20	0.21	0.24	0.22	0.24
Petrified Forest	0.18	0.11	0.10	0.13	0.18
San Pedro	0.38	0.50	0.44	0.44	0.50
West Elk	0.19	0.17	0.18	0.18	0.19
Weminuche	0.27	0.38	0.32	0.32	0.38
Wheeler Peak	0.17	0.14	0.18	0.16	0.18
Overall				**0.33**	**1.29**

Table 12
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	ROFA/Rotamix	Rotamix	ROFA	Pre-Consent Decree to Consent Decree	Consent Decree to ROFA/Rotamix	Consent Decree to Rotamix	Consent Decree to ROFA	Pre-Consent Decree to ROFA/Rotamix	Pre-Consent Decree to Rotamix	Pre-Consent Decree to ROFA	Pre-Consent Decree to Consent Decree	Consent Decree to ROFA/Rotamix	Consent Decree to Rotamix	Consent Decree to ROFA	Pre-Consent Decree to ROFA/Rotamix	Pre-Consent Decree to Rotamix	Pre-Consent Decree to ROFA
Arches	0.82	0.69	0.52	0.56	0.60	0.13	0.17	0.13	0.09	0.30	0.26	0.22	91,146,154	39,776,471	27,710,938	39,261,364	27,280,000	19,259,690	22,371,560
Bandelier	0.54	0.40	0.30	0.32	0.34	0.14	0.10	0.08	0.06	0.24	0.22	0.20	84,635,714	65,019,231	43,790,123	59,568,966	33,540,984	22,484,163	24,631,313
Black Canyon	0.38	0.29	0.21	0.22	0.24	0.09	0.09	0.07	0.05	0.18	0.16	0.14	131,655,556	79,552,941	52,161,765	71,979,167	46,765,714	31,449,367	35,340,580
Canyonlands	1.10	1.00	0.80	0.85	0.90	0.10	0.21	0.15	0.10	0.31	0.25	0.20	118,490,000	32,985,366	23,966,216	35,618,557	26,832,787	20,036,290	24,756,345
Capitol Reef	0.76	0.57	0.41	0.45	0.48	0.19	0.16	0.12	0.09	0.35	0.31	0.28	62,363,158	42,797,468	29,073,770	40,174,419	23,517,241	15,926,282	17,670,290
Grand Canyon	0.31	0.27	0.20	0.21	0.23	0.04	0.07	0.06	0.04	0.11	0.10	0.08	296,225,000	93,916,667	63,339,286	86,375,000	73,071,429	51,760,417	60,962,500
Great Sand Dunes	0.20	0.14	0.12	0.12	0.13	0.06	0.02	0.02	0.01	0.08	0.08	0.07	197,483,333	322,000,000	197,055,556	431,875,000	101,037,037	63,705,128	71,720,588
La Garita	0.29	0.21	0.16	0.17	0.18	0.08	0.05	0.04	0.03	0.13	0.12	0.11	148,112,500	130,038,462	88,675,000	123,392,857	62,000,000	41,408,333	45,157,407
Maroon Bells	0.18	0.14	0.10	0.11	0.12	0.04	0.04	0.03	0.02	0.08	0.07	0.06	296,225,000	164,926,829	114,419,355	164,523,810	101,037,037	69,985,915	79,950,820
Mesa Verde	1.79	1.40	1.17	1.23	1.29	0.39	0.23	0.17	0.11	0.62	0.56	0.50	30,382,051	29,788,546	20,502,890	30,307,018	13,264,182	8,825,933	9,676,587
Pecos	0.35	0.27	0.22	0.23	0.24	0.08	0.05	0.04	0.03	0.13	0.12	0.11	148,112,500	135,240,000	88,675,000	119,137,931	62,953,846	41,408,333	44,743,119
Petrified Forest	0.25	0.19	0.16	0.16	0.18	0.06	0.04	0.03	0.02	0.10	0.09	0.08	197,483,333	193,200,000	122,310,345	230,333,333	86,147,368	55,831,461	65,026,667
San Pedro	0.73	0.59	0.44	0.47	0.50	0.14	0.15	0.13	0.09	0.29	0.27	0.23	84,635,714	45,689,189	28,376,000	39,261,364	28,416,667	18,750,943	21,390,351
West Elk	0.28	0.22	0.17	0.18	0.19	0.06	0.06	0.04	0.03	0.12	0.10	0.09	197,483,333	122,945,455	84,452,381	119,137,931	71,165,217	48,715,686	54,797,753
Weminuche	0.54	0.43	0.34	0.36	0.38	0.11	0.09	0.07	0.05	0.20	0.18	0.16	107,718,182	75,977,528	49,957,746	63,981,481	41,125,628	27,453,039	29,737,805
Wheeler Peak	0.26	0.20	0.16	0.17	0.18	0.06	0.04	0.03	0.02	0.10	0.09	0.08	197,483,333	161,000,000	122,310,345	181,842,105	80,235,294	55,831,461	61,734,177

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	(Includes LNB/OFA/NN and PJFF)
Consent Decree to ROFA/Rotamix	$6,762	
Consent Decree to Rotamix	$3,547	
Consent Decree to ROFA	$3,455	
Pre-Consent Decree to ROFA/Rotamix	$8,184	
Pre-Consent Decree to Rotamix	$4,969	
Pre-Consent Decree to ROFA	$4,877	

Table 13 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 14 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 15 ROFA/Rotamix 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	0.52	0.39	0.41	0.44	0.52
Bandelier	0.18	0.29	0.27	0.25	0.29
Black Canyon	0.20	0.20	0.21	0.20	0.21
Canyonlands	0.79	0.47	0.45	0.57	0.79
Capitol Reef	0.41	0.13	0.21	0.25	0.41
Grand Canyon	0.20	0.13	0.12	0.15	0.20
Great Sand Dunes	0.11	0.12	0.10	0.11	0.12
La Garita	0.15	0.15	0.16	0.15	0.16
Maroon Bells	0.10	0.09	0.08	0.09	0.10
Mesa Verde	1.13	1.17	1.03	1.11	1.17
Pecos	0.17	0.19	0.22	0.19	0.22
Petrified Forest	0.15	0.10	0.10	0.12	0.15
San Pedro	0.32	0.44	0.39	0.38	0.44
West Elk	0.16	0.14	0.15	0.15	0.16
Weminuche	0.22	0.34	0.27	0.28	0.34
Wheeler Peak	0.14	0.13	0.16	0.14	0.16
Overall				**0.29**	**1.17**

Table 16 Rotamix 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	0.56	0.43	0.44	0.47	0.56
Bandelier	0.20	0.32	0.29	0.27	0.32
Black Canyon	0.22	0.22	0.22	0.22	0.22
Canyonlands	0.85	0.51	0.48	0.61	0.85
Capitol Reef	0.45	0.14	0.21	0.27	0.45
Grand Canyon	0.21	0.14	0.12	0.16	0.21
Great Sand Dunes	0.12	0.12	0.11	0.12	0.12
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	1.16	1.22	1.10	1.16	1.22
Pecos	0.18	0.20	0.23	0.20	0.23
Petrified Forest	0.16	0.11	0.10	0.12	0.16
San Pedro	0.35	0.46	0.42	0.41	0.46
West Elk	0.18	0.16	0.16	0.17	0.18
Weminuche	0.24	0.36	0.29	0.30	0.36
Wheeler Peak	0.16	0.13	0.17	0.15	0.17
Overall				**0.31**	**1.22**

Table 17 ROFA 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	0.60	0.46	0.46	0.51	0.60
Bandelier	0.21	0.34	0.31	0.29	0.34
Black Canyon	0.24	0.24	0.24	0.24	0.24
Canyonlands	0.90	0.55	0.50	0.65	0.90
Capitol Reef	0.48	0.15	0.22	0.28	0.48
Grand Canyon	0.23	0.14	0.12	0.16	0.23
Great Sand Dunes	0.12	0.13	0.12	0.12	0.13
La Garita	0.17	0.18	0.18	0.18	0.18
Maroon Bells	0.12	0.10	0.09	0.10	0.12
Mesa Verde	1.24	1.28	1.16	1.23	1.28
Pecos	0.20	0.21	0.24	0.22	0.24
Petrified Forest	0.17	0.11	0.10	0.13	0.17
San Pedro	0.38	0.50	0.44	0.44	0.50
West Elk	0.19	0.17	0.17	0.18	0.19
Weminuche	0.26	0.37	0.32	0.32	0.37
Wheeler Peak	0.17	0.14	0.18	0.16	0.18
Overall				**0.33**	**1.28**

Table 18
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	ROFA/Rotamix	Rotamix	ROFA	Pre-Consent Decree to Consent Decree	Consent Decree to ROFA/Rotamix	Consent Decree to Rotamix	Consent Decree to ROFA	Pre-Consent Decree to ROFA/Rotamix	Pre-Consent Decree to Rotamix	Pre-Consent Decree to ROFA	Pre-Consent Decree to Consent Decree	Consent Decree to ROFA/Rotamix	Consent Decree to Rotamix	Consent Decree to ROFA	Pre-Consent Decree to ROFA/Rotamix	Pre-Consent Decree to Rotamix	Pre-Consent Decree to ROFA
Arches	0.83	0.69	0.52	0.56	0.60	0.14	0.17	0.13	0.09	0.31	0.27	0.23	86,728,571	39,313,953	27,284,615	38,388,889	26,089,744	18,240,741	21,013,043
Bandelier	0.54	0.40	0.29	0.32	0.34	0.14	0.11	0.08	0.06	0.25	0.22	0.20	86,728,571	63,792,453	42,734,940	58,559,322	33,089,431	22,085,202	24,286,432
Black Canyon	0.39	0.29	0.21	0.22	0.24	0.10	0.09	0.07	0.05	0.19	0.17	0.15	121,420,000	79,552,941	51,405,797	69,100,000	44,000,000	29,142,012	32,220,000
Canyonlands	1.07	0.99	0.79	0.85	0.90	0.08	0.20	0.14	0.09	0.28	0.22	0.17	151,775,000	33,979,899	24,978,873	37,967,033	29,175,627	22,184,685	28,263,158
Capitol Reef	0.78	0.57	0.41	0.45	0.48	0.21	0.16	0.12	0.09	0.37	0.33	0.30	57,819,048	42,000,000	28,604,839	39,261,364	21,940,701	14,745,509	16,218,121
Grand Canyon	0.31	0.27	0.20	0.21	0.23	0.04	0.07	0.06	0.04	0.11	0.10	0.08	303,550,000	92,630,137	62,228,070	84,268,293	72,035,398	50,773,196	59,666,667
Great Sand Dunes	0.21	0.14	0.12	0.12	0.13	0.07	0.02	0.02	0.01	0.09	0.09	0.08	173,457,143	307,363,636	186,684,211	383,888,889	88,478,261	55,337,079	61,177,215
La Garita	0.29	0.21	0.16	0.17	0.18	0.08	0.05	0.04	0.03	0.13	0.12	0.11	151,775,000	127,584,906	86,512,195	123,392,857	61,203,008	40,702,479	44,750,000
Maroon Bells	0.18	0.14	0.10	0.11	0.12	0.04	0.04	0.03	0.02	0.08	0.07	0.06	303,550,000	164,926,829	110,843,750	157,045,455	100,493,827	68,402,778	77,951,613
Mesa Verde	1.82	1.40	1.17	1.22	1.28	0.42	0.23	0.18	0.12	0.65	0.60	0.54	28,909,524	29,272,727	19,926,966	29,033,613	12,503,840	8,235,786	8,966,605
Pecos	0.36	0.27	0.22	0.23	0.24	0.09	0.05	0.04	0.03	0.14	0.13	0.12	134,911,111	130,038,462	86,512,195	115,166,667	57,323,944	37,595,420	40,275,000
Petrified Forest	0.25	0.19	0.15	0.16	0.17	0.06	0.04	0.03	0.02	0.10	0.09	0.08	202,366,667	187,833,333	118,233,333	215,937,500	84,791,667	54,722,222	63,592,105
San Pedro	0.73	0.58	0.44	0.46	0.50	0.15	0.14	0.12	0.08	0.29	0.27	0.23	80,946,667	48,300,000	30,316,239	42,654,321	28,068,966	18,445,693	20,922,078
West Elk	0.29	0.22	0.16	0.18	0.19	0.07	0.06	0.04	0.03	0.13	0.11	0.10	173,457,143	120,750,000	82,488,372	115,166,667	64,603,175	43,584,071	48,330,000
Weminuche	0.56	0.42	0.34	0.36	0.37	0.14	0.08	0.06	0.05	0.22	0.20	0.19	86,728,571	83,481,481	56,301,587	75,108,696	36,832,579	24,261,084	25,983,871
Wheeler Peak	0.26	0.20	0.16	0.17	0.18	0.06	0.04	0.03	0.02	0.10	0.09	0.08	202,366,667	161,000,000	118,233,333	172,750,000	79,803,922	54,722,222	60,412,500

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	(Includes LNB/OFA/NN and PJFF)
Consent Decree to ROFA/Rotamix	$6,762	
Consent Decree to Rotamix	$3,547	
Consent Decree to ROFA	$3,455	
Pre-Consent Decree to ROFA/Rotamix	$8,140	
Pre-Consent Decree to Rotamix	$4,925	
Pre-Consent Decree to ROFA	$4,833	

Table 19 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 20 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 21 ROFA/Rotamix 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	0.74	0.49	0.50	0.58	0.74
Bandelier	0.29	0.45	0.45	0.40	0.45
Black Canyon	0.32	0.30	0.34	0.32	0.34
Canyonlands	0.97	0.64	0.63	0.75	0.97
Capitol Reef	0.64	0.21	0.30	0.38	0.64
Grand Canyon	0.26	0.20	0.18	0.21	0.26
Great Sand Dunes	0.18	0.19	0.15	0.17	0.19
La Garita	0.25	0.25	0.25	0.25	0.25
Maroon Bells	0.15	0.14	0.13	0.14	0.15
Mesa Verde	1.49	1.66	1.51	1.55	1.66
Pecos	0.27	0.28	0.34	0.30	0.34
Petrified Forest	0.24	0.16	0.15	0.19	0.24
San Pedro	0.54	0.63	0.55	0.57	0.63
West Elk	0.23	0.25	0.25	0.24	0.25
Weminuche	0.33	0.48	0.37	0.39	0.48
Wheeler Peak	0.21	0.24	0.22	0.22	0.24
Overall				**0.42**	**1.66**

Table 22 Rotamix 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	0.78	0.53	0.54	0.62	0.78
Bandelier	0.31	0.49	0.49	0.43	0.49
Black Canyon	0.35	0.33	0.37	0.35	0.37
Canyonlands	1.01	0.69	0.67	0.79	1.01
Capitol Reef	0.69	0.23	0.32	0.41	0.69
Grand Canyon	0.28	0.20	0.18	0.22	0.28
Great Sand Dunes	0.18	0.19	0.16	0.18	0.19
La Garita	0.26	0.27	0.26	0.27	0.27
Maroon Bells	0.16	0.15	0.14	0.15	0.16
Mesa Verde	1.49	1.73	1.57	1.60	1.73
Pecos	0.29	0.30	0.36	0.31	0.36
Petrified Forest	0.27	0.17	0.16	0.20	0.27
San Pedro	0.58	0.66	0.59	0.61	0.66
West Elk	0.24	0.26	0.27	0.26	0.27
Weminuche	0.35	0.53	0.40	0.43	0.53
Wheeler Peak	0.22	0.26	0.23	0.24	0.26
Overall				**0.44**	**1.73**

Table 23 ROFA 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	0.82	0.56	0.58	0.65	0.82
Bandelier	0.34	0.52	0.53	0.46	0.53
Black Canyon	0.37	0.35	0.40	0.37	0.40
Canyonlands	1.03	0.74	0.70	0.82	1.03
Capitol Reef	0.74	0.24	0.34	0.44	0.74
Grand Canyon	0.30	0.21	0.18	0.23	0.30
Great Sand Dunes	0.19	0.21	0.18	0.19	0.21
La Garita	0.26	0.29	0.28	0.28	0.29
Maroon Bells	0.17	0.16	0.15	0.16	0.17
Mesa Verde	1.50	1.78	1.62	1.64	1.78
Pecos	0.31	0.31	0.38	0.33	0.38
Petrified Forest	0.29	0.17	0.16	0.20	0.29
San Pedro	0.62	0.71	0.64	0.65	0.71
West Elk	0.26	0.28	0.30	0.28	0.30
Weminuche	0.38	0.57	0.43	0.46	0.57
Wheeler Peak	0.24	0.27	0.25	0.25	0.27
Overall				**0.46**	**1.78**

Table 24
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	ROFA/Rotamix	Rotamix	ROFA	Pre-Consent Decree to Consent Decree	Consent Decree to ROFA/Rotamix	Consent Decree to Rotamix	Consent Decree to ROFA	Pre-Consent Decree to ROFA/Rotamix	Pre-Consent Decree to Rotamix	Pre-Consent Decree to ROFA	Pre-Consent Decree to Consent Decree	Consent Decree to ROFA/Rotamix	Consent Decree to Rotamix	Consent Decree to ROFA	Pre-Consent Decree to ROFA/Rotamix	Pre-Consent Decree to Rotamix	Pre-Consent Decree to ROFA
Arches	1.04	0.89	0.74	0.78	0.82	0.15	0.15	0.11	0.07	0.30	0.26	0.22	91,293,333	63,473,684	44,008,929	69,243,243	36,052,980	23,545,802	28,410,714
Bandelier	0.81	0.61	0.45	0.49	0.53	0.20	0.16	0.12	0.08	0.36	0.32	0.28	68,470,000	61,846,154	41,075,000	63,259,259	30,584,270	19,278,125	22,647,687
Black Canyon	0.59	0.46	0.34	0.37	0.40	0.13	0.12	0.09	0.06	0.25	0.22	0.19	105,338,462	82,461,538	54,766,667	81,333,333	44,080,972	28,040,909	32,974,093
Canyonlands	1.44	1.15	0.97	1.01	1.03	0.29	0.18	0.15	0.12	0.47	0.44	0.41	47,220,690	54,508,475	33,993,103	42,700,000	23,314,775	14,181,609	15,521,951
Capitol Reef	1.10	0.86	0.64	0.69	0.74	0.24	0.22	0.17	0.12	0.46	0.41	0.36	57,058,333	43,071,429	28,994,118	43,794,872	23,465,517	15,046,341	17,826,331
Grand Canyon	0.48	0.35	0.26	0.28	0.30	0.13	0.10	0.08	0.05	0.23	0.21	0.18	105,338,462	101,557,895	65,720,000	94,888,889	48,391,111	30,092,683	34,586,957
Great Sand Dunes	0.33	0.24	0.19	0.19	0.21	0.09	0.05	0.05	0.03	0.14	0.14	0.12	152,155,556	201,000,000	107,152,174	165,290,323	78,898,551	45,360,294	52,595,041
La Garita	0.44	0.33	0.25	0.27	0.29	0.11	0.08	0.06	0.04	0.19	0.17	0.15	124,490,909	125,298,701	86,473,684	119,162,791	58,224,599	36,940,120	41,594,771
Maroon Bells	0.25	0.20	0.15	0.16	0.17	0.05	0.05	0.04	0.03	0.10	0.09	0.08	273,880,000	182,037,736	120,219,512	176,689,655	105,708,738	67,791,209	80,556,962
Mesa Verde	2.18	1.90	1.66	1.73	1.78	0.28	0.24	0.17	0.12	0.52	0.45	0.40	48,907,143	40,708,861	28,327,586	44,172,414	21,059,961	13,588,106	16,070,707
Pecos	0.58	0.42	0.34	0.36	0.38	0.16	0.08	0.06	0.04	0.24	0.22	0.20	85,587,500	123,692,308	80,803,279	116,454,545	45,747,899	27,914,027	31,196,078
Petrified Forest	0.43	0.29	0.24	0.27	0.29	0.14	0.05	0.02	0.00	0.19	0.16	0.14	97,814,286	209,739,130	214,304,348	1,281,000,000	58,537,634	37,846,626	44,194,444
San Pedro	1.03	0.81	0.63	0.66	0.71	0.22	0.18	0.15	0.10	0.40	0.37	0.32	62,245,455	53,899,441	32,215,686	49,269,231	27,288,221	16,538,874	19,641,975
West Elk	0.42	0.35	0.25	0.27	0.30	0.07	0.10	0.08	0.05	0.17	0.15	0.12	195,628,571	94,588,235	64,012,987	94,888,889	63,302,326	41,965,986	51,322,581
Weminuche	0.82	0.64	0.48	0.53	0.57	0.18	0.16	0.11	0.07	0.34	0.29	0.25	76,077,778	61,452,229	44,405,405	74,260,870	32,308,605	21,199,313	25,558,233
Wheeler Peak	0.39	0.31	0.24	0.26	0.27	0.08	0.07	0.05	0.04	0.15	0.13	0.12	171,175,000	141,882,353	93,000,000	134,842,105	73,567,568	46,383,459	53,932,203

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	(Includes LNB/OFA/NN and PJFF)
Consent Decree to ROFA/Rotamix	$9,648	
Consent Decree to Rotamix	$4,929	
Consent Decree to ROFA	$5,124	
Pre-Consent Decree to ROFA/Rotamix	$10,888	
Pre-Consent Decree to Rotamix	$6,169	
Pre-Consent Decree to ROFA	$6,364	

Table 25 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 26 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 27 ROFA/Rotamix 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	0.73	0.49	0.48	0.57	0.73
Bandelier	0.29	0.44	0.44	0.39	0.44
Black Canyon	0.31	0.30	0.34	0.32	0.34
Canyonlands	0.97	0.64	0.62	0.74	0.97
Capitol Reef	0.64	0.21	0.30	0.38	0.64
Grand Canyon	0.26	0.19	0.17	0.21	0.26
Great Sand Dunes	0.18	0.19	0.15	0.17	0.19
La Garita	0.24	0.25	0.23	0.24	0.25
Maroon Bells	0.15	0.14	0.13	0.14	0.15
Mesa Verde	1.48	1.65	1.50	1.54	1.65
Pecos	0.27	0.28	0.34	0.29	0.34
Petrified Forest	0.24	0.16	0.15	0.18	0.24
San Pedro	0.53	0.62	0.53	0.56	0.62
West Elk	0.23	0.24	0.23	0.23	0.24
Weminuche	0.32	0.48	0.36	0.39	0.48
Wheeler Peak	0.21	0.23	0.21	0.22	0.23
Overall				**0.41**	**1.65**

Table 28 Rotamix 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	0.77	0.53	0.51	0.61	0.77
Bandelier	0.30	0.47	0.48	0.42	0.48
Black Canyon	0.34	0.33	0.36	0.34	0.36
Canyonlands	1.00	0.69	0.66	0.79	1.00
Capitol Reef	0.69	0.22	0.32	0.41	0.69
Grand Canyon	0.28	0.20	0.17	0.22	0.28
Great Sand Dunes	0.18	0.19	0.16	0.18	0.19
La Garita	0.25	0.27	0.25	0.26	0.27
Maroon Bells	0.16	0.15	0.14	0.15	0.16
Mesa Verde	1.49	1.71	1.56	1.59	1.71
Pecos	0.28	0.29	0.35	0.31	0.35
Petrified Forest	0.26	0.17	0.15	0.19	0.26
San Pedro	0.57	0.65	0.57	0.59	0.65
West Elk	0.24	0.26	0.26	0.25	0.26
Weminuche	0.35	0.52	0.39	0.42	0.52
Wheeler Peak	0.22	0.25	0.23	0.23	0.25
Overall				**0.43**	**1.71**

Table 29 ROFA 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	0.81	0.57	0.55	0.64	0.81
Bandelier	0.33	0.51	0.52	0.45	0.52
Black Canyon	0.36	0.35	0.38	0.37	0.38
Canyonlands	1.03	0.74	0.69	0.82	1.03
Capitol Reef	0.74	0.24	0.33	0.44	0.74
Grand Canyon	0.31	0.21	0.17	0.23	0.31
Great Sand Dunes	0.18	0.20	0.17	0.19	0.20
La Garita	0.26	0.28	0.27	0.27	0.28
Maroon Bells	0.17	0.16	0.15	0.16	0.17
Mesa Verde	1.50	1.77	1.62	1.63	1.77
Pecos	0.30	0.31	0.37	0.33	0.37
Petrified Forest	0.28	0.17	0.15	0.20	0.28
San Pedro	0.61	0.69	0.60	0.63	0.69
West Elk	0.26	0.28	0.28	0.27	0.28
Weminuche	0.37	0.57	0.42	0.45	0.57
Wheeler Peak	0.24	0.27	0.24	0.25	0.27
Overall				**0.46**	**1.77**

Table 30
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	ROFA/Rotamix	Rotamix	ROFA	Pre-Consent Decree to Consent Decree	Consent Decree to ROFA/Rotamix	Consent Decree to Rotamix	Consent Decree to ROFA	Pre-Consent Decree to ROFA/Rotamix	Pre-Consent Decree to Rotamix	Pre-Consent Decree to ROFA	Pre-Consent Decree to Consent Decree	Consent Decree to ROFA/Rotamix	Consent Decree to Rotamix	Consent Decree to ROFA	Pre-Consent Decree to ROFA/Rotamix	Pre-Consent Decree to Rotamix	Pre-Consent Decree to ROFA
Arches	1.05	0.88	0.73	0.77	0.81	0.17	0.15	0.11	0.07	0.32	0.28	0.24	81,076,471	63,894,040	45,638,889	72,169,014	33,968,847	22,248,201	26,473,029
Bandelier	0.81	0.60	0.44	0.48	0.52	0.21	0.16	0.12	0.08	0.37	0.33	0.29	65,633,333	60,679,245	40,735,537	61,734,940	29,550,136	18,685,801	21,774,744
Black Canyon	0.59	0.44	0.34	0.36	0.38	0.15	0.10	0.08	0.06	0.25	0.23	0.21	91,886,667	93,669,903	60,109,756	89,894,737	43,098,814	26,659,483	30,821,256
Canyonlands	1.47	1.14	0.97	1.00	1.03	0.33	0.17	0.14	0.11	0.50	0.47	0.44	41,766,667	56,421,053	35,717,391	45,750,000	21,764,471	13,215,812	14,434,389
Capitol Reef	1.11	0.86	0.64	0.69	0.74	0.25	0.23	0.17	0.12	0.48	0.42	0.37	55,132,000	42,880,000	28,824,561	43,423,729	22,955,789	14,691,211	17,336,957
Grand Canyon	0.48	0.36	0.26	0.28	0.31	0.12	0.10	0.08	0.05	0.22	0.20	0.17	114,858,333	97,454,545	64,855,263	96,679,245	49,789,954	31,556,122	36,878,613
Great Sand Dunes	0.34	0.23	0.19	0.19	0.20	0.11	0.04	0.04	0.03	0.15	0.15	0.14	125,300,000	224,372,093	120,219,512	197,076,923	71,267,974	40,960,265	46,911,765
La Garita	0.45	0.32	0.25	0.27	0.28	0.13	0.07	0.05	0.04	0.20	0.18	0.17	106,023,077	132,164,384	93,000,000	128,100,000	53,714,286	33,797,814	37,529,412
Maroon Bells	0.25	0.20	0.15	0.16	0.17	0.05	0.05	0.04	0.03	0.10	0.09	0.08	275,660,000	185,538,462	126,384,615	189,777,778	106,901,961	69,494,382	82,857,143
Mesa Verde	2.18	1.89	1.65	1.71	1.77	0.29	0.24	0.18	0.12	0.53	0.47	0.41	47,527,586	39,703,704	27,383,333	42,347,107	20,457,786	13,159,574	15,523,114
Pecos	0.59	0.41	0.34	0.35	0.37	0.18	0.07	0.06	0.04	0.25	0.24	0.22	76,572,222	134,000,000	88,017,857	131,384,615	43,269,841	26,207,627	29,132,420
Petrified Forest	0.44	0.29	0.24	0.26	0.28	0.15	0.05	0.03	0.01	0.20	0.18	0.16	91,886,667	192,960,000	176,035,714	512,400,000	54,520,000	34,747,191	39,875,000
San Pedro	1.04	0.80	0.62	0.65	0.69	0.24	0.18	0.15	0.11	0.42	0.39	0.35	57,429,167	54,202,247	32,006,494	48,339,623	26,086,124	15,697,970	18,439,306
West Elk	0.43	0.33	0.24	0.26	0.28	0.10	0.09	0.07	0.05	0.19	0.17	0.15	137,830,000	109,636,364	73,567,164	111,391,304	58,000,000	37,035,928	43,698,630
Weminuche	0.81	0.63	0.48	0.52	0.57	0.18	0.15	0.11	0.06	0.33	0.29	0.24	76,572,222	62,649,351	45,638,889	80,062,500	32,646,707	21,475,694	26,147,541
Wheeler Peak	0.41	0.30	0.23	0.25	0.27	0.11	0.07	0.05	0.03	0.18	0.16	0.14	125,300,000	139,826,087	100,591,837	160,125,000	60,916,201	38,899,371	44,929,577

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	(Includes LNB/OFA/NN and PJFF)
Consent Decree to ROFA/Rotamix	$9,648	
Consent Decree to Rotamix	$4,929	
Consent Decree to ROFA	$5,124	
Pre-Consent Decree to ROFA/Rotamix	$10,904	
Pre-Consent Decree to Rotamix	$6,185	
Pre-Consent Decree to ROFA	$6,380	

PNM SJGS BART Modeling - All Units
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

Rotamix (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	44	1.61	72.81	19.83	3.28	0.84	0.54	2.71	100
BAND	42	0.91	42.35	53.31	1.92	0.49	0.46	1.49	100
BLCA	20	0.84	53.56	41.60	2.14	0.55	0.46	1.70	100
CANY	63	2.13	73.54	22.85	1.60	0.41	0.34	1.27	100
CARE	27	1.62	59.78	35.30	2.16	0.55	0.54	1.68	100
GRCA	11	0.84	44.44	53.10	1.09	0.28	0.22	0.87	100
GRSA	10	0.57	82.01	11.72	2.88	0.74	0.39	2.25	100
LAGA	14	0.74	33.33	61.80	2.16	0.55	0.48	1.68	100
MABE	7	0.50	45.94	50.47	1.61	0.41	0.29	1.27	100
MEVE	153	3.35	76.19	8.88	6.33	1.62	2.11	4.87	100
PECO	30	0.88	49.12	47.72	1.41	0.36	0.28	1.11	100
PEFO	13	0.77	88.60	7.79	1.58	0.40	0.38	1.24	100
SAPE	85	1.30	76.93	16.40	2.88	0.74	0.83	2.22	100
WEEL	16	0.73	43.95	54.37	0.76	0.19	0.13	0.60	100
WEMI	42	1.03	90.48	1.83	3.42	0.87	0.73	2.67	100
WHPE	20	0.68	81.21	12.88	2.65	0.68	0.51	2.07	100

PNM SJGS BART Modeling - All Units
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

ROFA/Rotamix (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	43	1.58	74.14	18.36	3.34	0.85	0.55	2.76	100
BAND	42	0.88	35.70	59.75	2.08	0.53	0.33	1.61	100
BLCA	18	0.82	54.95	40.08	2.19	0.56	0.47	1.75	100
CANY	62	2.10	74.97	21.34	1.63	0.42	0.35	1.29	100
CARE	27	1.55	62.41	32.45	2.25	0.58	0.56	1.75	100
GRCA	11	0.79	47.12	50.27	1.15	0.29	0.24	0.92	100
GRSA	9	0.56	83.34	10.29	2.93	0.75	0.40	2.29	100
LAGA	13	0.68	36.28	58.42	2.35	0.60	0.52	1.82	100
MABE	4	0.47	36.99	59.09	1.75	0.45	0.37	1.35	100
MEVE	151	3.34	76.56	8.44	6.36	1.62	2.12	4.90	100
PECO	24	0.82	67.42	28.63	1.76	0.45	0.37	1.37	100
PEFO	12	0.73	38.79	58.64	1.11	0.28	0.31	0.86	100
SAPE	84	1.28	78.09	15.14	2.92	0.75	0.85	2.25	100
WEEL	13	0.69	46.55	51.67	0.81	0.21	0.13	0.63	100
WEMI	41	0.97	37.21	57.74	2.21	0.56	0.57	1.71	100
WHPE	18	0.65	72.83	21.74	2.42	0.62	0.51	1.88	100

PNM SJGS BART Modeling - All Units
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

ROFA (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	45	1.63	71.63	21.12	3.22	0.82	0.53	2.66	100
BAND	45	0.94	40.98	54.81	1.85	0.47	0.44	1.44	100
BLCA	21	0.86	52.42	42.84	2.09	0.53	0.45	1.67	100
CANY	64	2.17	72.23	24.21	1.57	0.40	0.34	1.25	100
CARE	27	1.68	57.45	37.82	2.08	0.53	0.52	1.61	100
GRCA	11	0.88	42.20	55.46	1.03	0.26	0.21	0.83	100
GRSA	12	0.58	80.71	13.12	2.84	0.73	0.39	2.22	100
LAGA	14	0.79	30.85	64.65	2.00	0.51	0.45	1.55	100
MABE	8	0.52	43.59	53.00	1.53	0.39	0.27	1.21	100
MEVE	155	3.36	75.90	9.23	6.30	1.61	2.10	4.85	100
PECO	31	0.93	46.24	50.79	1.33	0.34	0.26	1.04	100
PEFO	13	0.78	87.66	8.77	1.56	0.40	0.38	1.23	100
SAPE	87	1.32	75.88	17.54	2.84	0.73	0.82	2.19	100
WEEL	16	0.74	86.11	7.90	2.67	0.68	0.49	2.14	100
WEMI	47	1.05	31.86	61.86	2.70	0.69	0.80	2.08	100
WHPE	22	0.70	51.18	44.25	2.05	0.52	0.40	1.60	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	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

Rotamix (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	30	1.49	41.03	53.51	2.38	0.61	0.62	1.85	100
BAND	50	1.35	41.58	51.66	2.97	0.76	0.73	2.29	100
BLCA	26	0.98	39.93	57.72	1.06	0.27	0.17	0.84	100
CANY	50	1.60	44.84	50.30	2.09	0.53	0.62	1.62	100
CARE	13	0.71	40.05	57.91	0.90	0.23	0.19	0.73	100
GRCA	10	0.64	52.99	45.29	0.76	0.19	0.14	0.63	100
GRSA	10	0.61	35.16	60.88	1.78	0.45	0.33	1.39	100
LAGA	22	0.79	33.99	59.77	2.77	0.71	0.62	2.14	100
MABE	6	0.47	36.12	61.24	1.17	0.30	0.23	0.93	100
MEVE	157	3.21	78.44	9.96	4.96	1.27	1.54	3.84	100
PECO	34	0.92	50.34	47.87	0.80	0.20	0.16	0.63	100
PEFO	8	0.54	36.19	60.97	1.27	0.32	0.21	1.04	100
SAPE	95	1.77	41.15	53.49	2.34	0.60	0.59	1.83	100
WEEL	20	0.76	42.88	51.47	2.54	0.65	0.48	1.99	100
WEMI	60	1.32	40.77	57.10	0.93	0.24	0.23	0.73	100
WHPE	17	0.75	38.81	59.44	0.78	0.20	0.15	0.62	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	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

ROFA/Rotamix (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	29	1.40	43.16	54.28	1.12	0.29	0.24	0.90	100
BAND	49	1.28	46.28	50.38	1.47	0.38	0.33	1.15	100
BLCA	25	0.91	42.83	54.65	1.14	0.29	0.18	0.90	100
CANY	50	1.55	46.31	48.67	2.16	0.55	0.64	1.67	100
CARE	13	0.65	43.30	54.49	0.97	0.25	0.20	0.79	100
GRCA	10	0.63	92.98	1.42	2.50	0.64	0.50	1.96	100
GRSA	10	0.60	90.60	5.80	1.63	0.42	0.26	1.29	100
LAGA	17	0.74	36.39	56.87	2.99	0.76	0.67	2.30	100
MABE	6	0.44	39.30	54.01	3.09	0.79	0.33	2.48	100
MEVE	157	3.18	79.12	9.17	5.01	1.28	1.55	3.87	100
PECO	29	0.86	53.65	44.44	0.85	0.22	0.17	0.68	100
PEFO	7	0.50	39.28	57.64	1.38	0.35	0.22	1.13	100
SAPE	92	1.67	56.84	35.88	3.18	0.81	0.84	2.46	100
WEEL	18	0.71	45.88	48.07	2.72	0.69	0.51	2.12	100
WEMI	58	1.24	61.67	35.82	1.11	0.28	0.22	0.90	100
WHPE	14	0.69	42.02	56.08	0.85	0.22	0.17	0.67	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	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

ROFA (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	30	1.53	41.09	54.91	1.75	0.45	0.43	1.37	100
BAND	52	1.41	47.94	48.13	1.74	0.44	0.39	1.37	100
BLCA	27	1.04	37.51	60.28	1.00	0.25	0.16	0.79	100
CANY	52	1.64	55.52	40.75	1.64	0.42	0.37	1.30	100
CARE	14	0.76	37.26	60.84	0.84	0.21	0.17	0.68	100
GRCA	10	0.68	50.03	48.35	0.72	0.18	0.13	0.59	100
GRSA	11	0.65	32.60	63.73	1.65	0.42	0.31	1.29	100
LAGA	29	0.83	31.97	62.22	2.59	0.66	0.58	1.99	100
MABE	8	0.51	33.43	64.13	1.09	0.28	0.21	0.86	100
MEVE	158	3.23	77.81	10.68	4.92	1.26	1.53	3.81	100
PECO	35	0.97	47.44	50.88	0.75	0.19	0.15	0.60	100
PEFO	9	0.55	93.49	1.68	2.15	0.55	0.44	1.70	100
SAPE	102	1.86	50.36	42.56	3.08	0.79	0.82	2.39	100
WEEL	22	0.80	35.09	62.73	0.98	0.25	0.16	0.78	100
WEMI	65	1.36	63.95	19.46	7.08	1.81	2.25	5.45	100
WHPE	18	0.79	51.48	42.87	2.55	0.65	0.46	1.99	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

Rotamix (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	24	1.27	75.89	21.42	1.18	0.30	0.26	0.94	100
BAND	49	1.14	82.29	12.61	2.23	0.57	0.55	1.74	100
BLCA	18	0.96	45.73	49.82	1.94	0.50	0.50	1.52	100
CANY	43	1.60	74.16	20.85	2.18	0.56	0.51	1.74	100
CARE	21	0.98	49.83	47.77	1.05	0.27	0.25	0.84	100
GRCA	8	0.57	94.24	0.81	2.19	0.56	0.46	1.74	100
GRSA	10	0.51	27.65	70.10	0.98	0.25	0.24	0.77	100
LAGA	14	0.77	54.10	42.54	1.49	0.38	0.34	1.16	100
MABE	6	0.43	33.03	63.63	1.46	0.37	0.34	1.16	100
MEVE	156	3.58	82.06	0.90	7.26	1.85	2.36	5.58	100
PECO	40	0.91	47.63	48.61	1.70	0.43	0.30	1.33	100
PEFO	6	0.50	90.98	5.08	1.76	0.45	0.31	1.41	100
SAPE	90	1.47	84.37	8.84	2.95	0.75	0.79	2.30	100
WEEL	14	0.69	33.89	61.30	2.10	0.54	0.53	1.64	100
WEMI	54	1.14	37.46	59.26	1.46	0.37	0.30	1.15	100
WHPE	22	0.74	37.08	59.00	1.77	0.45	0.29	1.40	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

ROFA/Rotamix (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	24	1.25	77.67	19.58	1.21	0.31	0.26	0.97	100
BAND	47	1.08	33.00	60.40	2.93	0.75	0.68	2.25	100
BLCA	18	0.93	47.21	48.19	2.00	0.51	0.51	1.57	100
CANY	42	1.57	51.69	37.85	4.46	1.14	1.43	3.43	100
CARE	20	0.93	52.85	44.60	1.11	0.28	0.26	0.89	100
GRCA	8	0.56	63.87	33.17	1.30	0.33	0.27	1.05	100
GRSA	6	0.48	92.42	4.29	1.50	0.38	0.24	1.17	100
LAGA	12	0.71	30.67	63.78	2.57	0.66	0.24	2.10	100
MABE	5	0.40	35.46	60.97	1.57	0.40	0.37	1.24	100
MEVE	154	3.58	82.14	0.80	7.26	1.86	2.36	5.58	100
PECO	37	0.88	65.41	27.63	3.08	0.79	0.68	2.41	100
PEFO	6	0.49	80.66	15.11	1.89	0.48	0.33	1.52	100
SAPE	90	1.45	56.13	38.49	2.31	0.59	0.69	1.78	100
WEEL	13	0.65	36.43	58.41	2.26	0.58	0.57	1.76	100
WEMI	53	1.07	54.55	41.81	1.57	0.40	0.46	1.21	100
WHPE	21	0.70	39.12	56.75	1.87	0.48	0.31	1.47	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

ROFA (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	26	1.29	36.00	61.62	1.04	0.27	0.25	0.83	100
BAND	53	1.16	80.94	14.04	2.20	0.56	0.54	1.71	100
BLCA	18	0.98	44.54	51.13	1.89	0.48	0.48	1.48	100
CANY	45	1.63	72.89	22.21	2.14	0.55	0.51	1.71	100
CARE	22	1.04	47.25	50.47	0.99	0.25	0.23	0.80	100
GRCA	9	0.57	94.13	0.92	2.19	0.56	0.46	1.74	100
GRSA	11	0.54	28.58	67.16	1.90	0.48	0.41	1.47	100
LAGA	18	0.80	51.93	44.84	1.43	0.36	0.32	1.11	100
MABE	6	0.46	31.08	65.79	1.38	0.35	0.32	1.09	100
MEVE	158	3.59	45.46	48.23	2.71	0.69	0.81	2.10	100
PECO	41	0.92	72.69	24.19	1.41	0.36	0.24	1.11	100
PEFO	8	0.50	90.35	5.73	1.75	0.45	0.31	1.40	100
SAPE	92	1.49	83.45	9.84	2.91	0.74	0.78	2.27	100
WEEL	17	0.74	28.59	69.31	0.91	0.23	0.23	0.72	100
WEMI	57	1.21	34.90	62.04	1.36	0.35	0.28	1.07	100
WHPE	23	0.79	28.01	67.65	1.92	0.49	0.42	1.51	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

Rotamix (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	12	0.56	31.25	65.08	1.61	0.41	0.38	1.27	100
BAND	1	0.20	32.57	63.38	1.85	0.47	0.29	1.43	100
BLCA	1	0.22	30.31	66.73	1.28	0.33	0.34	1.00	100
CANY	18	0.85	43.20	54.65	0.95	0.24	0.20	0.76	100
CARE	6	0.45	34.30	63.72	0.86	0.22	0.22	0.68	100
GRCA	2	0.21	38.64	59.21	0.95	0.24	0.19	0.77	100
GRSA	0	0.12	80.85	12.97	2.84	0.73	0.39	2.23	100
LAGA	0	0.16	32.90	62.21	2.16	0.55	0.48	1.69	100
MABE	0	0.11	26.50	68.43	2.24	0.57	0.52	1.74	100
MEVE	31	1.17	54.36	34.96	4.52	1.16	1.50	3.50	100
PECO	0	0.18	33.94	63.34	1.22	0.31	0.22	0.96	100
PEFO	1	0.16	34.18	63.57	0.97	0.25	0.27	0.77	100
SAPE	6	0.35	34.33	61.69	1.75	0.45	0.44	1.35	100
WEEL	0	0.18	41.98	54.76	1.46	0.37	0.27	1.16	100
WEMI	2	0.25	31.02	63.05	2.56	0.65	0.74	1.98	100
WHPE	0	0.16	45.27	52.16	1.16	0.30	0.20	0.91	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

ROFA/Rotamix (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	9	0.52	33.84	62.18	1.75	0.45	0.41	1.37	100
BAND	1	0.18	34.57	62.39	1.35	0.35	0.29	1.06	100
BLCA	1	0.20	33.22	63.54	1.41	0.36	0.37	1.10	100
CANY	17	0.80	46.44	51.25	1.02	0.26	0.22	0.81	100
CARE	5	0.41	37.41	60.43	0.93	0.24	0.24	0.74	100
GRCA	2	0.20	41.85	55.82	1.03	0.26	0.21	0.83	100
GRSA	0	0.11	48.84	47.95	1.45	0.37	0.24	1.14	100
LAGA	0	0.15	35.88	58.79	2.36	0.60	0.53	1.84	100
MABE	0	0.10	29.10	65.34	2.46	0.63	0.57	1.91	100
MEVE	29	1.13	56.21	32.75	4.67	1.20	1.56	3.62	100
PECO	0	0.17	51.47	45.22	1.48	0.38	0.29	1.16	100
PEFO	1	0.16	89.30	7.04	1.60	0.41	0.39	1.26	100
SAPE	4	0.32	37.25	58.43	1.90	0.49	0.47	1.47	100
WEEL	0	0.17	45.31	51.16	1.58	0.40	0.30	1.25	100
WEMI	1	0.23	33.75	59.79	2.78	0.71	0.81	2.15	100
WHPE	0	0.15	48.63	48.61	1.25	0.32	0.21	0.98	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

ROFA (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	13	0.60	29.10	67.48	1.50	0.38	0.35	1.18	100
BAND	1	0.22	30.05	66.22	1.70	0.44	0.27	1.32	100
BLCA	1	0.24	27.87	69.41	1.18	0.30	0.31	0.92	100
CANY	20	0.90	42.38	55.07	1.12	0.29	0.25	0.89	100
CARE	7	0.48	31.68	66.49	0.79	0.20	0.20	0.63	100
GRCA	2	0.23	35.91	62.09	0.88	0.23	0.18	0.72	100
GRSA	0	0.12	40.61	52.08	3.32	0.85	0.55	2.59	100
LAGA	0	0.17	82.11	13.26	2.04	0.52	0.46	1.60	100
MABE	0	0.12	24.34	71.01	2.06	0.53	0.48	1.59	100
MEVE	32	1.25	31.83	65.89	0.97	0.25	0.31	0.75	100
PECO	0	0.20	31.25	66.25	1.13	0.29	0.20	0.88	100
PEFO	1	0.18	31.50	66.42	0.90	0.23	0.25	0.71	100
SAPE	6	0.38	31.86	64.44	1.62	0.42	0.40	1.26	100
WEEL	0	0.19	39.09	57.87	1.36	0.35	0.26	1.08	100
WEMI	2	0.27	28.71	65.80	2.37	0.61	0.69	1.83	100
WHPE	1	0.17	42.34	55.25	1.09	0.28	0.18	0.85	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

Rotamix (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	5	0.43	30.43	65.58	1.74	0.45	0.44	1.36	100
BAND	4	0.32	38.79	58.51	1.18	0.30	0.28	0.93	100
BLCA	0	0.22	32.57	64.57	1.26	0.32	0.26	1.01	100
CANY	9	0.51	30.04	66.43	1.53	0.39	0.40	1.20	100
CARE	1	0.14	37.78	60.53	0.73	0.19	0.17	0.59	100
GRCA	0	0.14	52.70	45.61	0.74	0.19	0.14	0.62	100
GRSA	0	0.12	35.34	60.80	1.73	0.44	0.32	1.36	100
LAGA	0	0.17	32.85	63.61	1.54	0.39	0.42	1.19	100
MABE	0	0.10	35.80	58.15	2.79	0.72	0.29	2.26	100
MEVE	44	1.23	58.05	29.73	5.18	1.32	1.71	4.00	100
PECO	1	0.20	50.71	45.43	1.71	0.44	0.36	1.35	100
PEFO	0	0.11	35.18	62.04	1.24	0.32	0.20	1.02	100
SAPE	7	0.47	33.93	61.87	1.84	0.47	0.45	1.45	100
WEEL	0	0.16	31.41	64.48	1.79	0.46	0.48	1.38	100
WEMI	0	0.36	53.71	40.15	2.64	0.67	0.79	2.04	100
WHPE	0	0.14	61.79	33.59	2.11	0.54	0.28	1.68	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

ROFA/Rotamix (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	3	0.39	33.17	62.48	1.90	0.49	0.48	1.48	100
BAND	4	0.30	64.61	28.57	3.07	0.79	0.56	2.40	100
BLCA	0	0.20	35.69	61.18	1.39	0.35	0.29	1.11	100
CANY	7	0.47	32.86	63.28	1.68	0.43	0.43	1.32	100
CARE	1	0.13	42.78	55.04	0.96	0.25	0.20	0.78	100
GRCA	0	0.13	56.13	42.08	0.79	0.20	0.15	0.66	100
GRSA	0	0.12	90.48	5.94	1.62	0.41	0.26	1.29	100
LAGA	0	0.16	35.82	60.33	1.67	0.43	0.46	1.30	100
MABE	0	0.09	87.34	9.03	1.60	0.41	0.37	1.25	100
MEVE	40	1.17	43.27	46.96	4.19	1.07	1.26	3.24	100
PECO	0	0.19	53.93	41.97	1.82	0.47	0.38	1.44	100
PEFO	0	0.10	38.27	58.70	1.35	0.35	0.22	1.11	100
SAPE	7	0.44	60.54	34.61	2.15	0.55	0.49	1.66	100
WEEL	0	0.14	34.26	61.26	1.95	0.50	0.52	1.51	100
WEMI	0	0.34	56.56	36.98	2.78	0.71	0.83	2.15	100
WHPE	0	0.13	64.66	30.51	2.21	0.57	0.29	1.76	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

ROFA (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	6	0.46	28.51	69.02	1.09	0.28	0.22	0.87	100
BAND	4	0.34	36.08	61.42	1.10	0.28	0.26	0.87	100
BLCA	0	0.24	29.93	67.44	1.16	0.30	0.24	0.93	100
CANY	10	0.55	27.68	69.07	1.41	0.36	0.37	1.11	100
CARE	1	0.16	34.97	63.47	0.68	0.17	0.16	0.54	100
GRCA	0	0.15	49.65	48.76	0.70	0.18	0.13	0.58	100
GRSA	0	0.13	32.75	63.67	1.61	0.41	0.30	1.26	100
LAGA	0	0.18	29.04	68.34	1.16	0.30	0.24	0.92	100
MABE	0	0.10	33.27	61.10	2.60	0.66	0.27	2.10	100
MEVE	47	1.29	31.43	65.84	1.16	0.30	0.37	0.91	100
PECO	1	0.21	47.85	48.51	1.61	0.41	0.34	1.28	100
PEFO	0	0.11	93.50	1.70	2.12	0.54	0.44	1.69	100
SAPE	8	0.50	31.42	64.69	1.70	0.44	0.41	1.34	100
WEEL	0	0.17	29.01	67.20	1.65	0.42	0.44	1.28	100
WEMI	1	0.38	51.16	42.99	2.51	0.64	0.76	1.94	100
WHPE	0	0.14	36.85	61.56	0.71	0.18	0.14	0.57	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

Rotamix (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	5	0.44	59.02	38.91	0.91	0.23	0.20	0.73	100
BAND	1	0.29	30.40	65.49	1.80	0.46	0.45	1.40	100
BLCA	0	0.22	32.67	64.98	1.03	0.26	0.24	0.82	100
CANY	6	0.48	58.53	39.41	0.91	0.23	0.19	0.73	100
CARE	2	0.21	94.29	1.11	2.01	0.52	0.47	1.60	100
GRCA	0	0.12	94.09	0.96	2.19	0.56	0.45	1.75	100
GRSA	0	0.11	34.30	62.50	1.43	0.36	0.28	1.14	100
LAGA	0	0.17	43.30	53.72	1.31	0.33	0.31	1.02	100
MABE	0	0.09	41.33	54.55	1.91	0.49	0.23	1.50	100
MEVE	43	1.11	29.36	66.76	1.66	0.42	0.50	1.30	100
PECO	1	0.23	61.77	33.72	2.02	0.52	0.37	1.61	100
PEFO	0	0.10	90.79	5.30	1.75	0.45	0.32	1.40	100
SAPE	5	0.42	33.54	61.20	2.26	0.58	0.66	1.76	100
WEEL	0	0.16	44.53	53.47	0.88	0.22	0.20	0.70	100
WEMI	2	0.30	30.97	61.48	3.27	0.84	0.90	2.55	100
WHPE	0	0.17	43.59	54.56	0.82	0.21	0.17	0.66	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

ROFA/Rotamix (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	5	0.42	62.14	35.68	0.96	0.25	0.21	0.77	100
BAND	1	0.27	33.19	62.31	1.97	0.50	0.50	1.53	100
BLCA	0	0.21	53.30	41.86	2.10	0.54	0.57	1.64	100
CANY	6	0.45	61.63	36.20	0.95	0.24	0.20	0.77	100
CARE	2	0.21	94.43	0.96	2.02	0.52	0.47	1.60	100
GRCA	0	0.12	94.21	0.84	2.19	0.56	0.45	1.75	100
GRSA	0	0.10	37.34	59.17	1.55	0.40	0.31	1.24	100
LAGA	0	0.16	46.57	50.23	1.41	0.36	0.34	1.10	100
MABE	0	0.08	44.61	50.94	2.06	0.53	0.25	1.62	100
MEVE	42	1.03	71.30	11.15	7.49	1.92	2.36	5.78	100
PECO	1	0.22	58.29	39.17	1.14	0.29	0.19	0.91	100
PEFO	0	0.10	80.27	15.52	1.87	0.48	0.33	1.52	100
SAPE	5	0.39	35.87	58.50	2.42	0.62	0.71	1.88	100
WEEL	0	0.15	47.87	49.97	0.95	0.24	0.22	0.76	100
WEMI	1	0.27	29.70	65.44	2.09	0.53	0.62	1.62	100
WHPE	0	0.16	46.98	51.02	0.88	0.23	0.18	0.71	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

ROFA (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	7	0.46	56.21	41.82	0.87	0.22	0.19	0.70	100
BAND	1	0.32	28.05	68.15	1.66	0.43	0.42	1.29	100
BLCA	0	0.24	30.09	67.74	0.95	0.24	0.22	0.76	100
CANY	8	0.50	55.75	42.29	0.86	0.22	0.18	0.70	100
CARE	2	0.22	52.65	45.21	0.93	0.24	0.20	0.76	100
GRCA	0	0.12	93.96	1.09	2.18	0.56	0.45	1.75	100
GRSA	0	0.12	31.72	65.32	1.32	0.34	0.26	1.05	100
LAGA	0	0.18	40.47	56.75	1.22	0.31	0.29	0.95	100
MABE	0	0.09	38.48	57.67	1.78	0.45	0.22	1.39	100
MEVE	45	1.17	45.88	43.77	4.39	1.12	1.45	3.39	100
PECO	1	0.24	59.01	36.68	1.93	0.49	0.35	1.54	100
PEFO	0	0.10	90.14	5.97	1.74	0.44	0.32	1.39	100
SAPE	5	0.44	31.63	63.40	2.13	0.55	0.63	1.66	100
WEEL	0	0.18	41.61	56.51	0.82	0.21	0.19	0.66	100
WEMI	3	0.32	28.70	64.30	3.03	0.78	0.83	2.36	100
WHPE	0	0.18	92.03	4.39	1.62	0.42	0.27	1.27	100

PNM SJGS BART Modeling - Unit 2
Nitrate Repartitioning - Monthly Varying NH3 Background
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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	0.83	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

Rotamix (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	12	0.56	31.23	65.10	1.62	0.41	0.38	1.26	100
BAND	1	0.20	32.57	63.38	1.86	0.48	0.29	1.43	100
BLCA	1	0.22	30.31	66.73	1.29	0.33	0.34	1.00	100
CANY	18	0.85	43.19	54.66	0.95	0.24	0.20	0.75	100
CARE	6	0.45	34.30	63.72	0.86	0.22	0.22	0.68	100
GRCA	2	0.21	38.64	59.21	0.95	0.24	0.19	0.77	100
GRSA	0	0.12	80.85	12.97	2.85	0.73	0.39	2.21	100
LAGA	0	0.16	32.90	62.21	2.17	0.56	0.48	1.68	100
MABE	0	0.11	26.50	68.42	2.25	0.58	0.52	1.73	100
MEVE	31	1.16	54.29	35.03	4.53	1.16	1.51	3.47	100
PECO	0	0.18	33.95	63.34	1.23	0.31	0.22	0.95	100
PEFO	1	0.16	34.18	63.56	0.98	0.25	0.27	0.76	100
SAPE	5	0.35	34.32	61.69	1.76	0.45	0.44	1.35	100
WEEL	0	0.18	41.98	54.75	1.47	0.38	0.27	1.15	100
WEMI	2	0.24	31.02	63.04	2.57	0.66	0.74	1.97	100
WHPE	0	0.16	45.27	52.16	1.17	0.30	0.20	0.91	100

PNM SJGS BART Modeling - Unit 2
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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	0.83	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

ROFA/Rotamix (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	9	0.52	33.83	62.19	1.76	0.45	0.41	1.37	100
BAND	1	0.18	34.57	62.38	1.36	0.35	0.29	1.05	100
BLCA	1	0.20	33.22	63.53	1.42	0.36	0.37	1.10	100
CANY	17	0.79	46.43	51.26	1.03	0.26	0.22	0.81	100
CARE	5	0.41	37.41	60.43	0.94	0.24	0.24	0.74	100
GRCA	2	0.20	41.85	55.82	1.03	0.26	0.21	0.83	100
GRSA	0	0.11	82.32	11.39	2.90	0.74	0.40	2.25	100
LAGA	0	0.15	35.88	58.78	2.37	0.61	0.53	1.83	100
MABE	0	0.10	29.09	65.33	2.47	0.63	0.57	1.90	100
MEVE	29	1.13	56.15	32.81	4.69	1.20	1.56	3.59	100
PECO	0	0.17	51.47	45.22	1.49	0.38	0.29	1.16	100
PEFO	1	0.15	89.30	7.04	1.60	0.41	0.39	1.26	100
SAPE	4	0.32	37.24	58.43	1.91	0.49	0.47	1.46	100
WEEL	0	0.16	45.31	51.16	1.59	0.41	0.30	1.24	100
WEMI	1	0.22	33.75	59.79	2.79	0.72	0.81	2.14	100
WHPE	0	0.14	48.63	48.61	1.26	0.32	0.21	0.97	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	0.83	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

ROFA (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	13	0.60	29.08	67.50	1.51	0.39	0.35	1.17	100
BAND	1	0.21	30.05	66.21	1.71	0.44	0.27	1.32	100
BLCA	1	0.24	27.87	69.41	1.19	0.30	0.31	0.92	100
CANY	20	0.90	42.34	55.12	1.12	0.29	0.25	0.88	100
CARE	7	0.48	31.68	66.50	0.80	0.20	0.20	0.62	100
GRCA	2	0.23	35.90	62.10	0.89	0.23	0.18	0.71	100
GRSA	0	0.12	40.61	52.08	3.34	0.85	0.55	2.57	100
LAGA	0	0.17	82.11	13.26	2.05	0.53	0.46	1.59	100
MABE	0	0.12	24.34	71.00	2.07	0.53	0.48	1.59	100
MEVE	32	1.24	31.82	65.90	0.98	0.25	0.31	0.75	100
PECO	0	0.20	31.25	66.25	1.13	0.29	0.20	0.88	100
PEFO	1	0.17	31.50	66.41	0.90	0.23	0.25	0.70	100
SAPE	6	0.38	31.85	64.45	1.63	0.42	0.40	1.25	100
WEEL	0	0.19	39.09	57.87	1.37	0.35	0.26	1.07	100
WEMI	2	0.26	28.70	65.80	2.38	0.61	0.69	1.82	100
WHPE	1	0.17	42.34	55.26	1.09	0.28	0.18	0.85	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	0.64	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

Rotamix (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	5	0.43	30.42	65.59	1.75	0.45	0.44	1.35	100
BAND	4	0.32	38.79	58.51	1.19	0.30	0.28	0.93	100
BLCA	0	0.22	32.57	64.57	1.27	0.33	0.26	1.01	100
CANY	9	0.51	30.04	66.43	1.54	0.39	0.40	1.20	100
CARE	1	0.14	37.78	60.53	0.74	0.19	0.17	0.58	100
GRCA	0	0.14	52.70	45.61	0.75	0.19	0.14	0.61	100
GRSA	0	0.12	35.34	60.79	1.74	0.45	0.32	1.36	100
LAGA	0	0.17	32.85	63.60	1.54	0.40	0.42	1.19	100
MABE	0	0.10	35.80	58.14	2.81	0.72	0.29	2.25	100
MEVE	44	1.22	58.02	29.75	5.20	1.33	1.72	3.98	100
PECO	0	0.20	50.70	45.43	1.72	0.44	0.36	1.35	100
PEFO	0	0.11	35.18	62.04	1.25	0.32	0.20	1.02	100
SAPE	7	0.46	33.93	61.87	1.85	0.47	0.45	1.44	100
WEEL	0	0.16	31.41	64.48	1.80	0.46	0.48	1.38	100
WEMI	0	0.36	53.70	40.15	2.65	0.68	0.79	2.03	100
WHPE	0	0.13	61.79	33.59	2.13	0.54	0.28	1.67	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	0.64	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

ROFA/Rotamix (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	3	0.39	33.17	62.48	1.91	0.49	0.48	1.47	100
BAND	4	0.29	48.71	49.07	0.97	0.25	0.23	0.76	100
BLCA	0	0.20	35.69	61.17	1.39	0.36	0.29	1.10	100
CANY	7	0.47	32.86	63.28	1.69	0.43	0.43	1.31	100
CARE	1	0.13	42.78	55.04	0.96	0.25	0.20	0.78	100
GRCA	0	0.13	56.13	42.07	0.80	0.20	0.15	0.65	100
GRSA	0	0.12	90.47	5.94	1.63	0.42	0.26	1.28	100
LAGA	0	0.15	35.81	60.32	1.68	0.43	0.46	1.29	100
MABE	0	0.09	87.34	9.03	1.61	0.41	0.37	1.25	100
MEVE	40	1.17	43.21	47.02	4.21	1.08	1.26	3.22	100
PECO	0	0.19	53.92	41.97	1.83	0.47	0.38	1.43	100
PEFO	0	0.10	38.27	58.70	1.36	0.35	0.22	1.11	100
SAPE	7	0.44	60.49	34.67	2.15	0.55	0.49	1.65	100
WEEL	0	0.14	34.25	61.26	1.96	0.50	0.52	1.50	100
WEMI	0	0.34	56.54	36.98	2.79	0.71	0.84	2.14	100
WHPE	0	0.13	64.65	30.51	2.22	0.57	0.29	1.75	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

ROFA (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	6	0.46	28.50	69.03	1.10	0.28	0.22	0.87	100
BAND	4	0.34	36.07	61.42	1.11	0.28	0.26	0.86	100
BLCA	0	0.24	29.94	67.43	1.17	0.30	0.24	0.92	100
CANY	10	0.55	27.67	69.07	1.42	0.36	0.37	1.10	100
CARE	1	0.15	34.97	63.47	0.68	0.17	0.16	0.54	100
GRCA	0	0.14	49.65	48.76	0.70	0.18	0.13	0.58	100
GRSA	0	0.13	32.75	63.67	1.61	0.41	0.30	1.26	100
LAGA	0	0.18	30.35	66.38	1.43	0.36	0.39	1.10	100
MABE	0	0.10	33.27	61.10	2.61	0.67	0.27	2.09	100
MEVE	47	1.28	31.40	65.86	1.17	0.30	0.37	0.90	100
PECO	1	0.21	47.84	48.51	1.62	0.41	0.34	1.27	100
PEFO	0	0.11	93.49	1.70	2.14	0.55	0.44	1.68	100
SAPE	7	0.50	31.42	64.69	1.71	0.44	0.42	1.33	100
WEEL	0	0.17	29.01	67.20	1.66	0.42	0.44	1.27	100
WEMI	1	0.37	51.15	42.99	2.52	0.65	0.76	1.93	100
WHPE	0	0.14	36.85	61.56	0.71	0.18	0.14	0.56	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

Rotamix (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	5	0.44	59.01	38.92	0.92	0.23	0.20	0.73	100
BAND	1	0.29	30.39	65.49	1.81	0.46	0.45	1.39	100
BLCA	0	0.22	32.67	64.98	1.03	0.26	0.24	0.82	100
CANY	6	0.48	58.52	39.42	0.91	0.23	0.19	0.73	100
CARE	2	0.21	94.29	1.11	2.02	0.52	0.47	1.59	100
GRCA	0	0.12	94.08	0.96	2.20	0.56	0.45	1.74	100
GRSA	0	0.11	34.29	62.50	1.43	0.37	0.28	1.13	100
LAGA	0	0.17	43.30	53.72	1.31	0.34	0.31	1.02	100
MABE	0	0.09	41.33	54.54	1.92	0.49	0.23	1.49	100
MEVE	43	1.10	29.35	66.76	1.67	0.43	0.50	1.29	100
PECO	1	0.23	61.77	33.72	2.03	0.52	0.37	1.60	100
PEFO	0	0.10	90.78	5.29	1.76	0.45	0.32	1.40	100
SAPE	5	0.42	33.50	61.24	2.27	0.58	0.66	1.74	100
WEEL	0	0.16	44.52	53.47	0.88	0.23	0.20	0.70	100
WEMI	2	0.29	30.97	61.47	3.29	0.84	0.90	2.54	100
WHPE	0	0.17	43.59	54.56	0.82	0.21	0.17	0.65	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

ROFA/Rotamix (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	5	0.41	62.13	35.69	0.96	0.25	0.21	0.77	100
BAND	1	0.27	33.19	62.31	1.98	0.51	0.50	1.52	100
BLCA	0	0.21	53.27	41.89	2.11	0.54	0.57	1.63	100
CANY	6	0.45	61.62	36.21	0.96	0.25	0.20	0.77	100
CARE	2	0.21	94.43	0.96	2.03	0.52	0.47	1.59	100
GRCA	0	0.12	94.20	0.84	2.20	0.56	0.45	1.74	100
GRSA	0	0.10	37.34	59.17	1.56	0.40	0.31	1.23	100
LAGA	0	0.16	46.57	50.23	1.41	0.36	0.34	1.09	100
MABE	0	0.08	44.61	50.93	2.07	0.53	0.25	1.61	100
MEVE	42	1.03	71.22	11.24	7.52	1.92	2.36	5.75	100
PECO	1	0.22	64.77	30.50	2.13	0.54	0.39	1.68	100
PEFO	0	0.10	80.27	15.52	1.88	0.48	0.33	1.51	100
SAPE	5	0.39	35.83	58.54	2.43	0.62	0.71	1.87	100
WEEL	0	0.15	47.87	49.97	0.95	0.24	0.22	0.75	100
WEMI	1	0.27	29.69	65.44	2.10	0.54	0.62	1.62	100
WHPE	0	0.16	46.98	51.02	0.89	0.23	0.18	0.70	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

ROFA (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	7	0.46	56.20	41.83	0.87	0.22	0.19	0.69	100
BAND	1	0.31	28.05	68.15	1.67	0.43	0.42	1.28	100
BLCA	0	0.24	30.09	67.74	0.95	0.24	0.22	0.75	100
CANY	7	0.50	55.73	42.30	0.87	0.22	0.18	0.69	100
CARE	2	0.22	52.66	45.21	0.94	0.24	0.20	0.76	100
GRCA	0	0.12	93.96	1.09	2.19	0.56	0.45	1.74	100
GRSA	0	0.12	31.72	65.32	1.32	0.34	0.26	1.04	100
LAGA	0	0.18	40.46	56.75	1.23	0.31	0.29	0.95	100
MABE	0	0.09	38.48	57.67	1.79	0.46	0.22	1.39	100
MEVE	44	1.16	45.84	43.81	4.40	1.13	1.45	3.37	100
PECO	1	0.24	59.01	36.67	1.94	0.50	0.35	1.53	100
PEFO	0	0.10	90.13	5.97	1.74	0.45	0.32	1.39	100
SAPE	5	0.44	31.59	63.45	2.14	0.55	0.63	1.65	100
WEEL	0	0.17	41.61	56.51	0.83	0.21	0.19	0.65	100
WEMI	3	0.32	28.70	64.29	3.05	0.78	0.83	2.35	100
WHPE	0	0.18	92.03	4.39	1.63	0.42	0.27	1.26	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

Rotamix (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	16	0.78	40.87	56.94	0.97	0.24	0.20	0.77	100
BAND	1	0.31	31.84	64.02	1.90	0.48	0.31	1.46	100
BLCA	2	0.35	32.29	63.59	1.83	0.46	0.42	1.41	100
CANY	27	1.01	50.16	47.27	1.09	0.28	0.36	0.84	100
CARE	12	0.69	33.89	64.13	0.86	0.22	0.22	0.68	100
GRCA	4	0.28	39.91	57.90	0.97	0.24	0.20	0.78	100
GRSA	0	0.18	80.87	12.95	2.85	0.72	0.39	2.22	100
LAGA	0	0.26	83.22	12.07	2.09	0.53	0.47	1.62	100
MABE	0	0.16	41.46	55.21	1.50	0.38	0.26	1.18	100
MEVE	57	1.49	75.65	6.15	7.70	1.94	2.65	5.90	100
PECO	2	0.29	38.39	58.72	1.34	0.34	0.16	1.04	100
PEFO	2	0.27	34.09	63.66	0.97	0.25	0.28	0.76	100
SAPE	10	0.58	33.94	61.97	1.79	0.45	0.48	1.37	100
WEEL	1	0.24	42.36	53.85	1.72	0.43	0.30	1.34	100
WEMI	2	0.35	32.54	62.98	1.96	0.49	0.51	1.51	100
WHPE	2	0.22	64.93	30.18	2.18	0.55	0.46	1.69	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	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

ROFA/Rotamix (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	16	0.74	39.89	56.67	1.54	0.39	0.27	1.25	100
BAND	1	0.29	88.82	6.42	2.11	0.53	0.47	1.65	100
BLCA	2	0.32	35.09	60.43	1.99	0.50	0.46	1.53	100
CANY	24	0.97	51.91	45.43	1.13	0.29	0.37	0.87	100
CARE	11	0.64	36.89	60.95	0.94	0.24	0.24	0.74	100
GRCA	4	0.26	43.16	54.48	1.05	0.26	0.22	0.84	100
GRSA	0	0.18	82.37	11.35	2.90	0.73	0.39	2.26	100
LAGA	0	0.25	42.10	54.01	1.75	0.44	0.33	1.36	100
MABE	0	0.15	44.76	51.65	1.62	0.41	0.28	1.28	100
MEVE	49	1.49	75.96	5.77	7.73	1.95	2.66	5.93	100
PECO	2	0.27	54.32	42.15	1.60	0.40	0.29	1.24	100
PEFO	2	0.24	37.25	60.29	1.06	0.27	0.31	0.83	100
SAPE	9	0.54	36.60	58.99	1.93	0.49	0.51	1.48	100
WEEL	0	0.23	45.66	50.25	1.85	0.47	0.32	1.45	100
WEMI	2	0.33	45.02	48.15	2.98	0.75	0.81	2.29	100
WHPE	2	0.21	81.42	12.66	2.67	0.67	0.51	2.08	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	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

ROFA (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	17	0.82	38.90	59.01	0.92	0.23	0.20	0.74	100
BAND	1	0.34	29.35	66.83	1.75	0.44	0.28	1.35	100
BLCA	3	0.37	29.93	66.24	1.70	0.43	0.39	1.31	100
CANY	27	1.03	48.87	48.63	1.07	0.27	0.35	0.82	100
CARE	12	0.74	31.38	66.79	0.80	0.20	0.21	0.63	100
GRCA	4	0.30	37.13	60.83	0.90	0.23	0.19	0.72	100
GRSA	0	0.19	41.40	55.47	1.42	0.36	0.25	1.10	100
LAGA	0	0.26	81.85	13.52	2.05	0.52	0.47	1.60	100
MABE	0	0.17	38.59	58.31	1.40	0.35	0.24	1.10	100
MEVE	59	1.50	75.38	6.49	7.67	1.94	2.64	5.88	100
PECO	2	0.31	35.50	61.82	1.24	0.31	0.15	0.96	100
PEFO	2	0.29	88.23	9.30	1.10	0.28	0.22	0.87	100
SAPE	13	0.62	31.74	64.44	1.67	0.42	0.45	1.28	100
WEEL	1	0.26	39.48	56.99	1.60	0.40	0.28	1.25	100
WEMI	2	0.38	30.11	65.75	1.81	0.46	0.47	1.40	100
WHPE	2	0.24	32.70	65.19	0.95	0.24	0.16	0.75	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	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

Rotamix (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	9	0.53	36.25	59.06	2.04	0.51	0.56	1.57	100
BAND	6	0.49	38.40	58.77	1.25	0.32	0.28	0.98	100
BLCA	4	0.33	35.84	61.95	1.00	0.25	0.18	0.79	100
CANY	14	0.69	38.25	59.17	1.14	0.29	0.25	0.90	100
CARE	4	0.23	39.67	58.31	0.89	0.23	0.19	0.72	100
GRCA	1	0.20	51.57	46.74	0.75	0.19	0.14	0.61	100
GRSA	0	0.19	34.60	61.43	1.79	0.45	0.33	1.39	100
LAGA	0	0.27	39.99	58.06	0.86	0.22	0.18	0.68	100
MABE	0	0.15	35.85	58.03	2.83	0.71	0.30	2.27	100
MEVE	72	1.73	47.30	48.60	1.75	0.44	0.53	1.37	100
PECO	3	0.30	47.45	46.26	2.86	0.72	0.47	2.23	100
PEFO	0	0.17	93.56	1.58	2.16	0.55	0.44	1.71	100
SAPE	21	0.66	35.08	60.21	2.06	0.52	0.53	1.60	100
WEEL	1	0.26	40.25	54.36	2.42	0.61	0.47	1.89	100
WEMI	8	0.53	26.74	69.07	1.81	0.46	0.54	1.39	100
WHPE	0	0.26	53.43	45.07	0.67	0.17	0.13	0.53	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	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

ROFA/Rotamix (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	7	0.49	39.15	55.79	2.20	0.56	0.60	1.70	100
BAND	5	0.45	41.49	55.44	1.35	0.34	0.30	1.06	100
BLCA	4	0.30	39.05	58.55	1.08	0.27	0.20	0.86	100
CANY	11	0.64	41.32	55.90	1.23	0.31	0.27	0.97	100
CARE	3	0.21	42.95	54.86	0.97	0.24	0.20	0.78	100
GRCA	1	0.20	92.90	1.51	2.50	0.63	0.50	1.95	100
GRSA	0	0.19	90.29	6.12	1.63	0.41	0.26	1.29	100
LAGA	0	0.25	33.53	60.22	2.78	0.70	0.63	2.13	100
MABE	0	0.14	86.93	9.47	1.59	0.40	0.37	1.24	100
MEVE	67	1.66	49.26	46.47	1.83	0.46	0.55	1.42	100
PECO	3	0.28	50.42	42.90	3.04	0.77	0.50	2.37	100
PEFO	0	0.16	39.39	57.54	1.38	0.35	0.23	1.12	100
SAPE	18	0.63	65.57	29.23	2.31	0.58	0.54	1.77	100
WEEL	0	0.25	43.81	50.28	2.65	0.67	0.52	2.07	100
WEMI	7	0.48	29.34	66.06	1.98	0.50	0.59	1.52	100
WHPE	0	0.24	56.87	41.53	0.71	0.18	0.14	0.57	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	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

ROFA (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	10	0.56	33.79	61.85	1.90	0.48	0.52	1.47	100
BAND	8	0.52	57.62	36.21	2.79	0.70	0.51	2.17	100
BLCA	4	0.35	33.11	64.84	0.92	0.23	0.17	0.73	100
CANY	14	0.74	35.65	61.94	1.06	0.27	0.24	0.84	100
CARE	4	0.24	36.85	61.27	0.83	0.21	0.17	0.67	100
GRCA	1	0.21	48.54	49.87	0.70	0.18	0.13	0.58	100
GRSA	0	0.21	32.04	64.28	1.65	0.42	0.31	1.29	100
LAGA	0	0.29	83.45	12.84	1.68	0.42	0.28	1.32	100
MABE	0	0.16	33.33	60.98	2.63	0.66	0.28	2.11	100
MEVE	74	1.78	45.63	50.42	1.69	0.43	0.51	1.32	100
PECO	3	0.31	44.85	49.21	2.70	0.68	0.44	2.11	100
PEFO	0	0.17	93.36	1.80	2.16	0.54	0.44	1.70	100
SAPE	25	0.71	32.66	62.96	1.92	0.48	0.49	1.49	100
WEEL	1	0.28	37.24	57.73	2.25	0.57	0.44	1.76	100
WEMI	10	0.57	35.07	57.27	3.27	0.83	1.04	2.51	100
WHPE	0	0.27	50.36	48.23	0.63	0.16	0.13	0.50	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	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

Rotamix (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	8	0.54	35.92	57.81	2.71	0.68	0.80	2.08	100
BAND	7	0.49	29.39	66.38	1.85	0.47	0.48	1.43	100
BLCA	1	0.37	41.35	56.42	0.98	0.25	0.22	0.77	100
CANY	11	0.67	57.58	38.92	1.54	0.39	0.32	1.25	100
CARE	3	0.32	54.79	42.95	0.99	0.25	0.21	0.80	100
GRCA	0	0.18	94.11	0.94	2.19	0.55	0.46	1.74	100
GRSA	1	0.16	55.45	41.33	1.44	0.36	0.30	1.12	100
LAGA	1	0.26	45.37	51.98	1.19	0.30	0.22	0.95	100
MABE	0	0.14	29.06	67.75	1.40	0.35	0.35	1.09	100
MEVE	58	1.57	49.70	38.94	4.83	1.22	1.61	3.71	100
PECO	2	0.36	61.08	34.44	2.01	0.51	0.37	1.59	100
PEFO	0	0.16	90.72	5.35	1.77	0.45	0.31	1.41	100
SAPE	11	0.59	33.13	60.81	2.62	0.66	0.76	2.01	100
WEEL	0	0.27	29.50	67.38	1.36	0.34	0.36	1.06	100
WEMI	5	0.40	29.81	63.38	3.05	0.77	0.58	2.40	100
WHPE	1	0.23	29.86	65.52	2.05	0.52	0.44	1.61	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	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

ROFA/Rotamix (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	8	0.50	38.69	54.55	2.92	0.74	0.86	2.24	100
BAND	6	0.45	32.04	63.35	2.02	0.51	0.52	1.55	100
BLCA	1	0.34	44.67	52.92	1.06	0.27	0.24	0.83	100
CANY	11	0.63	50.45	47.62	0.85	0.22	0.18	0.68	100
CARE	2	0.30	58.25	39.35	1.05	0.27	0.22	0.86	100
GRCA	0	0.18	94.23	0.82	2.19	0.55	0.46	1.74	100
GRSA	1	0.15	58.75	37.84	1.52	0.38	0.31	1.19	100
LAGA	0	0.25	48.67	48.48	1.27	0.32	0.24	1.01	100
MABE	0	0.13	45.14	52.43	1.06	0.27	0.27	0.83	100
MEVE	57	1.51	51.79	36.37	5.03	1.27	1.68	3.86	100
PECO	1	0.34	64.12	31.18	2.11	0.53	0.38	1.67	100
PEFO	0	0.15	80.04	15.77	1.88	0.47	0.33	1.51	100
SAPE	11	0.55	35.74	57.73	2.83	0.71	0.82	2.17	100
WEEL	0	0.25	29.64	67.42	1.31	0.33	0.28	1.02	100
WEMI	3	0.37	32.44	60.16	3.32	0.84	0.64	2.61	100
WHPE	0	0.22	91.73	3.29	2.24	0.57	0.42	1.74	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	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

ROFA (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	9	0.58	33.56	60.58	2.53	0.64	0.75	1.95	100
BAND	8	0.53	27.20	68.89	1.71	0.43	0.44	1.32	100
BLCA	2	0.40	38.50	59.43	0.91	0.23	0.21	0.72	100
CANY	13	0.70	36.93	55.69	3.16	0.80	1.00	2.42	100
CARE	3	0.34	51.71	46.16	0.94	0.24	0.20	0.76	100
GRCA	0	0.18	93.99	1.07	2.19	0.55	0.46	1.74	100
GRSA	1	0.18	27.83	67.99	1.86	0.47	0.40	1.44	100
LAGA	1	0.28	42.50	55.01	1.11	0.28	0.21	0.89	100
MABE	0	0.15	26.73	70.33	1.29	0.33	0.32	1.00	100
MEVE	62	1.62	47.89	41.16	4.65	1.17	1.55	3.57	100
PECO	2	0.38	58.29	37.43	1.92	0.48	0.35	1.52	100
PEFO	0	0.16	90.06	6.04	1.75	0.44	0.31	1.40	100
SAPE	12	0.64	30.94	63.40	2.45	0.62	0.71	1.88	100
WEEL	0	0.30	27.20	69.93	1.25	0.32	0.33	0.98	100
WEMI	5	0.43	46.96	41.68	4.84	1.22	1.58	3.71	100
WHPE	2	0.25	27.52	68.22	1.89	0.48	0.41	1.48	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	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

Rotamix (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	16	0.77	40.70	57.11	0.96	0.25	0.21	0.77	100
BAND	1	0.30	31.87	63.98	1.89	0.49	0.30	1.47	100
BLCA	2	0.34	32.25	63.63	1.82	0.47	0.42	1.41	100
CANY	25	1.00	49.88	47.56	1.09	0.28	0.35	0.84	100
CARE	12	0.69	33.93	64.09	0.86	0.22	0.22	0.68	100
GRCA	4	0.28	35.23	62.74	0.89	0.23	0.21	0.70	100
GRSA	0	0.18	80.86	12.95	2.84	0.73	0.39	2.22	100
LAGA	0	0.25	83.24	12.04	2.08	0.54	0.47	1.63	100
MABE	0	0.16	41.26	55.45	1.48	0.38	0.26	1.17	100
MEVE	56	1.49	75.24	6.66	7.63	1.97	2.63	5.87	100
PECO	2	0.28	51.01	45.66	1.50	0.39	0.27	1.17	100
PEFO	2	0.26	34.06	63.67	0.97	0.25	0.28	0.76	100
SAPE	10	0.57	33.87	62.04	1.78	0.46	0.47	1.37	100
WEEL	1	0.24	42.07	54.19	1.69	0.43	0.29	1.33	100
WEMI	2	0.35	32.57	62.96	1.95	0.50	0.51	1.51	100
WHPE	2	0.22	35.71	62.01	1.03	0.27	0.17	0.81	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	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

ROFA/Rotamix (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	16	0.73	39.57	57.01	1.52	0.39	0.27	1.24	100
BAND	1	0.29	54.58	41.58	1.71	0.44	0.36	1.33	100
BLCA	2	0.31	35.06	60.46	1.98	0.51	0.45	1.53	100
CANY	24	0.97	51.67	45.67	1.13	0.29	0.37	0.87	100
CARE	10	0.64	36.94	60.90	0.93	0.24	0.24	0.74	100
GRCA	4	0.26	38.37	59.42	0.97	0.25	0.23	0.76	100
GRSA	0	0.18	82.33	11.37	2.90	0.75	0.39	2.26	100
LAGA	0	0.24	42.01	54.10	1.75	0.45	0.33	1.36	100
MABE	0	0.15	29.24	65.08	2.51	0.65	0.60	1.94	100
MEVE	46	1.48	75.58	6.24	7.66	1.97	2.64	5.90	100
PECO	2	0.27	54.29	42.16	1.60	0.41	0.29	1.25	100
PEFO	2	0.24	37.23	60.30	1.06	0.27	0.31	0.83	100
SAPE	8	0.53	36.55	59.05	1.92	0.49	0.51	1.48	100
WEEL	0	0.23	45.39	50.57	1.82	0.47	0.32	1.43	100
WEMI	2	0.32	44.95	48.22	2.97	0.76	0.81	2.29	100
WHPE	2	0.21	81.40	12.66	2.66	0.69	0.51	2.09	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	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

ROFA (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	17	0.81	39.61	56.55	1.70	0.44	0.29	1.41	100
BAND	1	0.33	29.25	66.95	1.73	0.45	0.28	1.34	100
BLCA	3	0.36	29.89	66.29	1.69	0.44	0.39	1.30	100
CANY	27	1.03	48.56	48.95	1.06	0.27	0.34	0.82	100
CARE	12	0.74	31.41	66.76	0.79	0.20	0.21	0.63	100
GRCA	4	0.31	32.57	65.55	0.82	0.21	0.19	0.65	100
GRSA	0	0.18	40.97	51.63	3.36	0.87	0.57	2.61	100
LAGA	0	0.26	81.87	13.49	2.05	0.53	0.47	1.60	100
MABE	0	0.17	38.41	58.52	1.38	0.36	0.24	1.09	100
MEVE	59	1.50	32.55	62.69	2.03	0.52	0.63	1.57	100
PECO	2	0.30	30.41	67.10	1.12	0.29	0.21	0.87	100
PEFO	2	0.28	88.24	9.29	1.10	0.28	0.22	0.87	100
SAPE	11	0.61	31.65	64.53	1.66	0.43	0.44	1.28	100
WEEL	1	0.26	39.21	57.31	1.57	0.41	0.27	1.23	100
WEMI	2	0.37	30.14	65.73	1.80	0.46	0.47	1.40	100
WHPE	2	0.24	32.90	65.00	0.95	0.24	0.16	0.75	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	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

Rotamix (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	9	0.53	36.12	59.19	2.03	0.52	0.55	1.57	100
BAND	6	0.47	38.36	58.82	1.25	0.32	0.28	0.98	100
BLCA	4	0.33	25.95	70.85	1.38	0.36	0.39	1.07	100
CANY	14	0.69	38.16	59.26	1.13	0.29	0.25	0.90	100
CARE	4	0.22	39.68	58.29	0.89	0.23	0.19	0.72	100
GRCA	1	0.20	51.48	46.83	0.75	0.19	0.14	0.62	100
GRSA	0	0.19	34.60	61.42	1.78	0.46	0.34	1.40	100
LAGA	0	0.27	40.02	58.03	0.86	0.22	0.18	0.68	100
MABE	0	0.15	41.76	53.67	2.05	0.53	0.37	1.62	100
MEVE	69	1.71	46.90	49.03	1.73	0.45	0.52	1.36	100
PECO	3	0.29	47.48	46.21	2.86	0.74	0.47	2.24	100
PEFO	0	0.17	93.56	1.58	2.16	0.56	0.44	1.71	100
SAPE	21	0.65	35.00	60.30	2.05	0.53	0.53	1.60	100
WEEL	1	0.26	31.62	64.09	1.86	0.48	0.51	1.44	100
WEMI	8	0.52	26.63	69.19	1.80	0.46	0.53	1.39	100
WHPE	0	0.25	37.48	60.78	0.77	0.20	0.15	0.62	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	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

ROFA/Rotamix (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	7	0.49	39.02	55.92	2.19	0.57	0.60	1.70	100
BAND	4	0.44	41.46	55.48	1.35	0.35	0.30	1.06	100
BLCA	4	0.30	39.09	58.51	1.08	0.28	0.20	0.86	100
CANY	10	0.64	41.23	55.98	1.22	0.32	0.27	0.97	100
CARE	3	0.21	42.97	54.84	0.97	0.25	0.20	0.78	100
GRCA	1	0.19	92.88	1.52	2.50	0.64	0.50	1.96	100
GRSA	0	0.19	90.26	6.13	1.63	0.42	0.26	1.29	100
LAGA	0	0.25	33.50	60.24	2.77	0.71	0.63	2.14	100
MABE	0	0.14	44.99	50.09	2.21	0.57	0.39	1.74	100
MEVE	66	1.65	48.88	46.89	1.81	0.47	0.55	1.42	100
PECO	3	0.28	50.46	42.84	3.04	0.78	0.50	2.38	100
PEFO	0	0.16	39.28	57.64	1.37	0.35	0.22	1.13	100
SAPE	16	0.62	65.20	29.60	2.29	0.59	0.54	1.77	100
WEEL	0	0.24	34.43	60.89	2.03	0.52	0.56	1.57	100
WEMI	6	0.48	29.23	66.18	1.97	0.51	0.59	1.52	100
WHPE	0	0.23	40.72	57.39	0.84	0.22	0.17	0.67	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	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

ROFA (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	10	0.57	33.66	61.98	1.89	0.49	0.52	1.47	100
BAND	8	0.51	35.71	61.66	1.16	0.30	0.26	0.91	100
BLCA	4	0.35	23.86	73.19	1.27	0.33	0.36	0.98	100
CANY	14	0.74	35.57	62.03	1.06	0.27	0.23	0.84	100
CARE	4	0.24	36.87	61.25	0.83	0.21	0.17	0.67	100
GRCA	1	0.21	48.44	49.97	0.70	0.18	0.13	0.58	100
GRSA	0	0.20	32.04	64.27	1.65	0.43	0.31	1.29	100
LAGA	0	0.28	83.41	12.86	1.68	0.43	0.28	1.33	100
MABE	0	0.16	38.96	56.78	1.92	0.49	0.34	1.51	100
MEVE	74	1.77	45.22	50.86	1.67	0.43	0.51	1.31	100
PECO	3	0.31	44.88	49.17	2.70	0.70	0.44	2.12	100
PEFO	0	0.17	93.36	1.79	2.15	0.55	0.44	1.70	100
SAPE	25	0.69	32.58	63.05	1.90	0.49	0.49	1.49	100
WEEL	2	0.28	29.24	66.78	1.72	0.44	0.48	1.33	100
WEMI	9	0.57	24.47	71.69	1.65	0.43	0.49	1.28	100
WHPE	0	0.27	50.19	48.39	0.63	0.16	0.13	0.50	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	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

Rotamix (3)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	8	0.51	35.67	58.15	2.66	0.69	0.77	2.06	100
BAND	7	0.48	29.38	66.39	1.85	0.48	0.48	1.43	100
BLCA	1	0.36	40.98	53.38	2.46	0.63	0.65	1.90	100
CANY	11	0.66	57.43	39.07	1.54	0.40	0.32	1.25	100
CARE	3	0.32	54.80	42.94	0.99	0.26	0.21	0.81	100
GRCA	0	0.17	94.11	0.94	2.18	0.56	0.46	1.74	100
GRSA	1	0.16	30.20	65.25	2.02	0.52	0.44	1.57	100
LAGA	0	0.25	27.42	67.58	2.31	0.59	0.20	1.89	100
MABE	0	0.14	41.88	55.87	0.98	0.25	0.25	0.77	100
MEVE	58	1.56	49.78	38.83	4.82	1.24	1.61	3.72	100
PECO	2	0.35	61.23	34.29	2.00	0.52	0.37	1.59	100
PEFO	0	0.15	90.72	5.35	1.76	0.45	0.31	1.41	100
SAPE	11	0.57	41.14	53.10	2.49	0.64	0.70	1.92	100
WEEL	0	0.26	30.06	67.70	0.98	0.25	0.25	0.77	100
WEMI	5	0.39	29.77	63.42	3.04	0.78	0.59	2.40	100
WHPE	1	0.23	29.84	65.53	2.05	0.53	0.44	1.61	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	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

ROFA/Rotamix (2)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	7	0.48	38.45	54.89	2.87	0.74	0.84	2.22	100
BAND	5	0.44	32.03	63.36	2.01	0.52	0.52	1.56	100
BLCA	1	0.34	56.06	38.77	2.24	0.58	0.61	1.74	100
CANY	11	0.62	50.43	47.63	0.85	0.22	0.18	0.68	100
CARE	2	0.30	58.26	39.34	1.05	0.27	0.22	0.86	100
GRCA	0	0.17	94.23	0.82	2.19	0.56	0.46	1.74	100
GRSA	1	0.15	58.91	37.65	1.53	0.39	0.32	1.20	100
LAGA	0	0.23	49.10	48.11	1.25	0.32	0.22	1.00	100
MABE	0	0.13	45.26	52.30	1.06	0.27	0.27	0.83	100
MEVE	57	1.50	51.86	36.27	5.03	1.30	1.68	3.87	100
PECO	1	0.34	64.27	31.03	2.10	0.54	0.38	1.67	100
PEFO	0	0.15	80.05	15.75	1.87	0.48	0.33	1.51	100
SAPE	11	0.53	43.95	49.90	2.66	0.69	0.75	2.05	100
WEEL	0	0.23	32.98	64.56	1.07	0.28	0.27	0.84	100
WEMI	3	0.36	32.40	60.19	3.31	0.85	0.64	2.61	100
WHPE	0	0.21	91.72	3.30	2.24	0.58	0.42	1.74	100

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

ROFA (1)

Class I Area	No. of Days > 0.5 dv	98th Percentile	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_Total
ARCH	9	0.55	33.30	60.93	2.49	0.64	0.72	1.92	100
BAND	8	0.52	27.18	68.91	1.71	0.44	0.44	1.32	100
BLCA	1	0.38	38.73	59.20	0.91	0.24	0.21	0.72	100
CANY	13	0.69	52.63	43.93	1.50	0.39	0.35	1.20	100
CARE	3	0.33	51.72	46.15	0.93	0.24	0.20	0.76	100
GRCA	0	0.17	93.99	1.07	2.18	0.56	0.46	1.74	100
GRSA	1	0.17	27.83	67.98	1.86	0.48	0.40	1.45	100
LAGA	1	0.27	25.21	70.19	2.12	0.55	0.19	1.74	100
MABE	0	0.15	38.95	58.95	0.91	0.24	0.23	0.72	100
MEVE	61	1.62	47.97	41.05	4.65	1.20	1.55	3.58	100
PECO	2	0.37	58.46	37.27	1.91	0.49	0.35	1.52	100
PEFO	0	0.15	90.06	6.03	1.75	0.45	0.31	1.40	100
SAPE	12	0.60	38.75	55.83	2.34	0.60	0.66	1.81	100
WEEL	0	0.28	27.61	70.32	0.90	0.23	0.23	0.71	100
WEMI	5	0.42	46.89	41.75	4.82	1.24	1.58	3.72	100
WHPE	1	0.24	27.50	68.23	1.89	0.49	0.40	1.49	100