

## Appendix 2

### Augmentation Plan Exchange Matrix

Exchange To Points and Requested Exchange Rates (cfs)

Exchange From Points	Reach A	Reach B	Reach C	Reach D	Reach E	Reach F	Reach G	Reach H	Reach I	Reach J	Reach K	Reach L	Reach M	Mid Fork 1 Pond	Lopez Canyon Pond	Stage Coach Pond	South Fork 1 Pond	Vermejo-Monaco Pond	Warren McDonald Pond	Margery Pond	Burro Canyon Pond	King Pond	Gregg Canyon Pond	Tamburelli Pond	
<b>Exchange Source: Golden Eagle 43 Discharge</b>																									
Golden Eagle 43 Discharge			32 <sup>(1)</sup>														3.0 <sup>(2)</sup>								
Confluence of South Fork with Purgatoire	3.2 <sup>(3)</sup>	3.2 <sup>(4)</sup>		3.2 <sup>(5)</sup>	3.2 <sup>(6)</sup>									3.0 <sup>(7)</sup>	1.0 <sup>(8)</sup>	1.0 <sup>(9)</sup>									
Confluence of Sarcillo Canyon with Purgatoire																		1.0 <sup>(10)</sup>	1.0 <sup>(11)</sup>	1.0 <sup>(12)</sup>					
Confluence of Burro Canyon with Purgatoire								3.2 <sup>(13)</sup>													1.0 <sup>(14)</sup>				
Confluence of Reilly Canyon with Purgatoire									3.2 <sup>(15)</sup>														1.0 <sup>(16)</sup>	1.0 <sup>(17)</sup>	1.0 <sup>(18)</sup>
Confluence of Long Creek with Purgatoire										3.2 <sup>(19)</sup>															
Confluence of Raton Creek with Purgatoire												3.2 <sup>(20)</sup>	3.2 <sup>(21)</sup>												
<b>Exchange Source: Jaguar 183A Discharge</b>																									



Exchange From Points	Reach A	Reach B	Reach C	Reach D	Reach E	Reach F	Reach G	Reach H	Reach I	Reach J	Reach K	Reach L	Reach M	Mid Fork 1 Pond	Lopez Canyon Pond	Stage Coach Pond	South Fork 1 Pond	Vermejo-Monaco Pond	Warren McDonald Pond	Margery Pond	Burro Canyon Pond	King Pond	Gregg Canyon Pond	Tamburelli Pond
<b>Exchange Source: Joyce 057A Discharge</b>																								
Joyce 057A Discharge																						1.0 <sup>(68)</sup>	1.0 <sup>(69)</sup>	
Confluence of Reilly Canyon with Purgatoire	7.7 <sup>(70)</sup>	7.7 <sup>(71)</sup>	7.7 <sup>(72)</sup>	7.7 <sup>(73)</sup>	7.7 <sup>(74)</sup>	7.7 <sup>(75)</sup>	7.7 <sup>(76)</sup>	7.7 <sup>(77)</sup>			7.7 <sup>(78)</sup>			3.0 <sup>(79)</sup>	1.0 <sup>(80)</sup>	1.0 <sup>(81)</sup>	3.0 <sup>(82)</sup>	1.0 <sup>(83)</sup>	1.0 <sup>(84)</sup>	1.0 <sup>(85)</sup>	1.0 <sup>(86)</sup>			
Confluence of Long Creek with Purgatoire										7.7 <sup>(87)</sup>														
Confluence of Raton Creek with Purgatoire												7.7 <sup>(88)</sup>	7.7 <sup>(89)</sup>											
<b>Exchange Source: Golden Eagle Mine</b>																								
Golden Eagle Mine Discharge	0.4 <sup>(90)</sup>	0.4 <sup>(91)</sup>		0.4 <sup>(92)</sup>										0.4 <sup>(93)</sup>										
Confluence of Purgatoire with Lopez Canyon															1.0 <sup>(94)</sup>									
Confluence of Purgatoire with Unnamed Trib																1.0 <sup>(95)</sup>								
Confluence of South Fork with Purgatoire			0.4 <sup>(96)</sup>														0.4 <sup>(97)</sup>							
Confluence of Sarcillo Canyon with Purgatoire																		0.4 <sup>(98)</sup>	0.4 <sup>(99)</sup>	0.4 <sup>(100)</sup>				
Confluence of Burro								0.4 <sup>(101)</sup>														0.4 <sup>(102)</sup>		













Exchange From Points	Reach A	Reach B	Reach C	Reach D	Reach E	Reach F	Reach G	Reach H	Reach I	Reach J	Reach K	Reach L	Reach M	Mid Fork 1 Pond	Lopez Canyon Pond	Stage Coach Pond	South Fork 1 Pond	Vermejo-Monaco Pond	Warren McDonald Pond	Margery Pond	Burro Canyon Pond	King Pond	Gregg Canyon Pond	Tamburelli Pond
Creek with Purgatoire																								
<b>Exchange Source: Vermejo-Monaco Pond</b>																								
Confluence of Sarcillo Canyon with Purgatoire	1.0 <sup>(218)</sup>	1.0 <sup>(219)</sup>	1.0 <sup>(220)</sup>	1.0 <sup>(221)</sup>	1.0 <sup>(222)</sup>	1.0 <sup>(223)</sup>																		
Confluence of Burro Canyon with Purgatoire								1.0 <sup>(224)</sup>																
Confluence of Reilly Canyon with Purgatoire									0.9 <sup>(225)</sup>															
Confluence of Long Creek with Purgatoire										0.9 <sup>(226)</sup>														
Confluence of Raton Creek with Purgatoire												0.9 <sup>(227)</sup>	0.9 <sup>(228)</sup>											

Maximum achievable exchange rates are based on and limited by the following assumptions.

1. Each discharge point could receive 100 percent nontributary water.
2. Each discharge point could receive the entire maximum permitted discharge amount.
3. Transit losses are considered in the downstream direction at 0.25 percent per mile. No initial loss is assessed.
4. Exchanges are limited by the exchange-from and exchange-to points. When the exchange-to point does not have a limit (e.g., an Administrative Reach), the exchange rate is based on the exchange-from point.