Appendix A

ANALYTICAL RESULTS

Appendix A-1

Pathogen Indicator Sample Numbers and Sample Collection Times
Island Princess

Sampling Point (SP)	Approximate Sample Collection Time	Sample Numbers				
		8/28/04 - 8/29/04	8/29/04 - 8/30/04	8/30/04 - 8/31/04	8/31/04 - 9/01/04	9/01/04 - 9/02/04
		Day 1	Day 2	Day 3	Day 4	Day 5
Galley Wastewater (SP-1)	1030 2200	65591 65592	65595 65596	65599 65600	65603 65604	65607 65608
Laundry Wastewater (SP-2)	1030 2200	65611	65615 65616	65619 65620	65623 65624	65627 65628
Accommodations Wastewater (SP-3)	1030 2200	65631 65632	65635 65636	65639 65640	65643 65644	65647 65648
Influent to Wastewater Treatment System (SP-4)	1030 1630 2200	65651 65652 65653	65655 65656 65657	65659 65660 65661	65663 65664 65665	65667 65668 65669
Influent to UV Disinfection (SP-5)	1015 1630 2200	65671 65672 65673	65675 65676 65677	65679 65680 65681	65683 65684 65685	65687 65688 65689
Effluent from Wastewater Treatment System (SP-6)	1000 1600 2200	65691 65692 65693	65695 65696 65697	65699 65700 65701	65703 65704 65705	65707 65708 65709
Effluent from Wastewater Treatment System (Duplicate) (SP-7)	1000	65766	65715	65765	65762	
Galley Overboard Discharge (SP-8)	1800 (8/26/04)[1]	65731				

Appendix A-1
(continued)
Pathogen Indicator Sample Numbers and Sample Collection Times
Island Princess

Sampling Point (SP)	Approximate Sample Collection Time	Sample Numbers				
		8/28/04 - 8/29/04	8/29/04 - 8/30/04	8/30/04 - 8/31/04	8/31/04 - 9/01/04	9/01/04 - 9/02/04
		Day 1	Day 2	Day 3	Day 4	Day 5
Laundry Overboard Discharge (SP-9)	1800 (8/26/04)[1]	65733				
Food Pulper Overboard Discharge (SP-10)	1800 (8/26/04)[1]	65737				
Source Water (SP-14)	1100		65753			

[1] Samples collected prior to the start of 5-day sampling period in order to characterize overboard discharge of untreated wastewater.

Appendix A-1
(continued)
Microbiologicals Analytical Results
Island Princess

SP-1, Galley Wastewater Characterization **Day 1**	**Grab 1** **65591**	**Grab 2** **65592**	**Unit**
Microbiologicals			
E. coli	32,600	98,000	MPN/100 mL
Enterococci	51,700	12,000	MPN/100 mL
Fecal Coliform	7,800,000	4,900,000	CFU/100 mL
SP-1, Galley Wastewater Characterization **Day 2**	**Grab 1** **65595**	**Grab 2** **65596**	**Unit**
Microbiologicals			
E. coli	56,900	4,350,000	MPN/100 mL
Enterococci	> 2,420	300	MPN/100 mL
Fecal Coliform	98,000,000	14,000,000	CFU/100 mL
SP-1, Galley Wastewater Characterization **Day 3**	**Grab 1** **65599**	**Grab 2** **65600**	**Unit**
Microbiologicals			
E. coli	630	3,450,000	MPN/100 mL
Enterococci	27,600	598	MPN/100 mL
Fecal Coliform	30,000	910,000,000	CFU/100 mL
SP-1, Galley Wastewater Characterization **Day 4**	**Grab 1** **65603**	**Grab 2** **65604**	**Unit**
Microbiologicals			
E. coli	167,000	253,000	MPN/100 mL
Enterococci	95.0	43,500	MPN/100 mL
Fecal Coliform	120,000	980,000	CFU/100 mL
SP-1, Galley Wastewater Characterization **Day 5**	**Grab 1** **65607**	**Grab 2** **65608**	**Unit**
Microbiologicals			
E. coli	1,480	130,000	MPN/100 mL
Enterococci	172	328	MPN/100 mL
Fecal Coliform	1,000,000	180,000	CFU/100 mL

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NC - Not collected.
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Appendix A-1
(continued)
Microbiologicals Analytical Results
Island Princess

SP-2, Laundry Wastewater Characterization **Day 1**	**Grab 1** **65611**		**Unit**
Microbiologicals			
E. coli	ND(1.00)		MPN/100 mL
Enterococci	1.00		MPN/100 mL
Fecal Coliform	ND(2.00)		CFU/100 mL
SP-2, Laundry Wastewater Characterization **Day 2**	**Grab 1** **65615**	**Grab 2** **65616**	**Unit**
Microbiologicals			
E. coli	ND(10.0)	ND(1.00)	MPN/100 mL
Enterococci	ND(10.0)	ND(1.00)	MPN/100 mL
Fecal Coliform	ND(10.0)	270	CFU/100 mL
SP-2, Laundry Wastewater Characterization **Day 3**	**Grab 1** **65619**	**Grab 2** **65620**	**Unit**
Microbiologicals			
E. coli	ND(1.00)	ND(1.00)	MPN/100 mL
Enterococci	ND(1.00)	ND(1.00)	MPN/100 mL
Fecal Coliform	110	ND(5.00)	CFU/100 mL
SP-2, Laundry Wastewater Characterization **Day 4**	**Grab 1** **65623**	**Grab 2** **65624**	**Unit**
Microbiologicals			
E. coli	2.00	ND(1.00)	MPN/100 mL
Enterococci	> 2,420	ND(1.00)	MPN/100 mL
Fecal Coliform	550	ND(2.00)	CFU/100 mL
SP-2, Laundry Wastewater Characterization **Day 5**	**Grab 1** **65627**	**Grab 2** **65628**	**Unit**
Microbiologicals			
E. coli	206	ND(1.00)	MPN/100 mL
Enterococci	> 2,420	ND(1.00)	MPN/100 mL
Fecal Coliform	8,700	ND(2.00)	CFU/100 mL

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Appendix A-1
(continued)
Microbiologicals Analytical Results
Island Princess

SP-3, Accommodations Wastewater Characterization	Grab 1	Grab 2	Unit
Day 1	**65631**	**65632**	
Microbiologicals			
E. coli	ND(100)	200	MPN/100 mL
Enterococci	1.00	> 2,420	MPN/100 mL
Fecal Coliform	170,000	210,000	CFU/100 mL

SP-3, Accommodations Wastewater Characterization	Grab 1	Grab 2	Unit
Day 2	**65635**	**65636**	
Microbiologicals			
E. coli	167,000	ND(1.00)	MPN/100 mL
Enterococci	> 2,420	857	MPN/100 mL
Fecal Coliform	570,000	140,000	CFU/100 mL

SP-3, Accommodations Wastewater Characterization	Grab 1	Grab 2	Unit
Day 3	**65639**	**65640**	
Microbiologicals			
E. coli	41.1	ND(1,000)	MPN/100 mL
Enterococci	> 2,420	391	MPN/100 mL
Fecal Coliform	470,000	100,000	CFU/100 mL

SP-3, Accommodations Wastewater Characterization	Grab 1	Grab 2	Unit
Day 4	**65643**	**65644**	
Microbiologicals			
E. coli	ND(1,000)	2,830	MPN/100 mL
Enterococci	4.00	41.0	MPN/100 mL
Fecal Coliform	ND(10,000)	76,000	CFU/100 mL

SP-3, Accommodations Wastewater Characterization	Grab 1	Grab 2	Unit
Day 5	**65647**	**65648**	
Microbiologicals			
E. coli	12.6	2.00	MPN/100 mL
Enterococci	ND(100)	1,010	MPN/100 mL
Fecal Coliform	5,100	1,500	CFU/100 mL

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Appendix A-1
(continued)
Microbiologicals Analytical Results
Island Princess

SP-4, Influent to Wastewater Treatment System **Day 1**	**Grab 1** **65651**	**Grab 2** **65652**	**Grab 3** **65653**	**Unit**
Microbiologicals				
E. coli	> 24,200,000	> 24,200,000	8,660,000	MPN/100 mL
Enterococci	> 24,200,000	2,910,000	4,110,000	MPN/100 mL
Fecal Coliform	51,000,000	14,000,000	5,100,000	CFU/100 mL
SP-4, Influent to Wastewater Treatment System **Day 2**	**Grab 1** **65655**	**Grab 2** **65656**	**Grab 3** **65657**	**Unit**
Microbiologicals				
E. coli	3,080,000	68,700,000	41,000	MPN/100 mL
Enterococci	579,000	32,600,000	52,000	MPN/100 mL
Fecal Coliform	8,900,000	1.50E+09	1,100,000	CFU/100 mL
SP-4, Influent to Wastewater Treatment System **Day 3**	**Grab 1** **65659**	**Grab 2** **65660**	**Grab 3** **65661**	**Unit**
Microbiologicals				
E. coli	231,000	23,800,000	43,500,000	MPN/100 mL
Enterococci	75,000	1,670,000	19,900,000	MPN/100 mL
Fecal Coliform	2,600,000	51,000,000	970,000,000	CFU/100 mL
SP-4, Influent to Wastewater Treatment System **Day 4**	**Grab 1** **65663**	**Grab 2** **65664**	**Grab 3** **65665**	**Unit**
Microbiologicals				
E. coli	> 242,000,000	12,000,000	8,660,000	MPN/100 mL
Enterococci	98,000,000	7,700,000	3,870,000	MPN/100 mL
Fecal Coliform	150,000,000	7,900,000	27,000,000	CFU/100 mL
SP-4, Influent to Wastewater Treatment System **Day 5**	**Grab 1** **65667**	**Grab 2** **65668**	**Grab 3** **65669**	**Unit**
Microbiologicals				
E. coli	8,160,000	77,000,000	4,350,000	MPN/100 mL
Enterococci	41,100,000	6,870,000	8,160,000	MPN/100 mL
Fecal Coliform	15,000,000	45,000,000	4,100,000	CFU/100 mL

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Appendix A-1
(continued)
Microbiologicals Analytical Results
Island Princess

SP-5, Influent to UV Disinfection **Day 1**	**Grab 1** **65671**	**Grab 2** **65672**	**Grab 3** **65673**	**Unit**
Microbiologicals				
E. coli	ND(1.00)	1.00	ND(1.00)	MPN/100 mL
Enterococci	ND(1.00)	1.00	1.00	MPN/100 mL
Fecal Coliform	ND(10.0)	ND(2.00)	ND(2.00)	CFU/100 mL
SP-5, Influent to UV Disinfection **Day 2**	**Grab 1** **65675**	**Grab 2** **65676**	**Grab 3** **65677**	**Unit**
Microbiologicals				
E. coli	ND(1.00)	ND(1.00)	ND(1.00)	MPN/100 mL
Enterococci	ND(1.00)	1.00	ND(1.00)	MPN/100 mL
Fecal Coliform	ND(2.00)	ND(2.00)	ND(2.00)	CFU/100 mL
SP-5, Influent to UV Disinfection **Day 3**	**Grab 1** **65679**	**Grab 2** **65680**	**Grab 3** **65681**	**Unit**
Microbiologicals				
E. coli	ND(1.00)	ND(1.00)	ND(1.00)	MPN/100 mL
Enterococci	ND(1.00)	ND(1.00)	ND(1.00)	MPN/100 mL
Fecal Coliform	ND(2.00)	ND(2.00)	ND(2.00)	CFU/100 mL
SP-5, Influent to UV Disinfection **Day 4**	**Grab 1** **65683**	**Grab 2** **65684**	**Grab 3** **65685**	**Unit**
Microbiologicals				
E. coli	ND(1.00)	ND(1.00)	ND(1.00)	MPN/100 mL
Enterococci	ND(1.00)	ND(1.00)	ND(1.00)	MPN/100 mL
Fecal Coliform	ND(2.00)	ND(2.00)	ND(2.00)	CFU/100 mL
SP-5, Influent to UV Disinfection **Day 5**	**Grab 1** **65687**	**Grab 2** **65688**	**Grab 3** **65689**	**Unit**
Microbiologicals				
E. coli	1.00	ND(1.00)	ND(1.00)	MPN/100 mL
Enterococci	4.10	24.9	ND(1.00)	MPN/100 mL
Fecal Coliform	2.00	ND(2.00)	ND(2.00)	CFU/100 mL

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NC - Not collected.
ND - Not detected (number in parentheses is detection limit).
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Appendix A-1
(continued)
Microbiologicals Analytical Results
Island Princess

SP-6, Effluent from Wastewater Treatment Day 1	**Grab 1 65691**	**Grab 2 65692**	**Grab 3 65693**	**Unit**
Microbiologicals				
E. coli	ND(1.00)	3.10	ND(1.00)	MPN/100 mL
Enterococci	ND(1.00)	1.00	ND(1.00)	MPN/100 mL
Fecal Coliform	ND(2.00)	20.0	ND(2.00)	CFU/100 mL

SP-6, Effluent from Wastewater Treatment Day 2	**Grab 1 65695**	**Grab 2 65696**	**Grab 3 65697**	**Unit**
Microbiologicals				
E. coli	ND(1.00)	ND(1.00)	ND(1.00)	MPN/100 mL
Enterococci	ND(1.00)	ND(1.00)	ND(1.00)	MPN/100 mL
Fecal Coliform	ND(2.00)	ND(2.00)	ND(2.00)	CFU/100 mL

SP-6, Effluent from Wastewater Treatment Day 3	**Grab 1 65699**	**Grab 2 65700**	**Grab 3 65701**	**Unit**
Microbiologicals				
E. coli	ND(1.00)	ND(1.00)	ND(1.00)	MPN/100 mL
Enterococci	ND(1.00)	ND(1.00)	ND(1.00)	MPN/100 mL
Fecal Coliform	ND(2.00)	ND(2.00)	ND(2.00)	CFU/100 mL

SP-6, Effluent from Wastewater Treatment Day 4	**Grab 1 65703**	**Grab 2 65704**	**Grab 3 65705**	**Unit**
Microbiologicals				
E. coli	ND(1.00)	1.00	1.00	MPN/100 mL
Enterococci	ND(1.00)	ND(1.00)	3.10	MPN/100 mL
Fecal Coliform	ND(2.00)	ND(2.00)	ND(2.00)	CFU/100 mL

SP-6, Effluent from Wastewater Treatment Day 5	**Grab 1 65707**	**Grab 2 65708**	**Grab 3 65709**	**Unit**
Microbiologicals				
E. coli	ND(1.00)	ND(1.00)	ND(1.00)	MPN/100 mL
Enterococci	ND(1.00)	2.00	ND(1.00)	MPN/100 mL
Fecal Coliform	ND(2.00)	ND(2.00)	ND(2.00)	CFU/100 mL

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).
> - Average result includes at least one value that exceeds the range of dilutions.

Appendix A-1
(continued)
Microbiologicals Analytical Results
Island Princess

SP-7, Duplicate of Effluent from Wastewater Treatment System	**Grab 1**	**Unit**
Day 1	**65766**	
Microbiologicals		
E. coli	ND(1.00)	MPN/100 mL
Enterococci	ND(1.00)	MPN/100 mL
Fecal Coliform	ND(2.00)	CFU/100 mL
SP-7, Duplicate of Effluent from Wastewater Treatment System	**Grab 1**	**Unit**
Day 2	**65715**	
Microbiologicals		
E. coli	ND(1.00)	MPN/100 mL
Enterococci	ND(1.00)	MPN/100 mL
Fecal Coliform	ND(2.00)	CFU/100 mL
SP-7, Duplicate of Effluent from Wastewater Treatment System	**Grab 1**	**Unit**
Day 3	**65765**	
Microbiologicals		
E. coli	ND(1.00)	MPN/100 mL
Enterococci	ND(1.00)	MPN/100 mL
Fecal Coliform	ND(2.00)	CFU/100 mL
SP-7, Duplicate of Effluent from Wastewater Treatment System	**Grab 1**	**Unit**
Day 4	**65762**	
Microbiologicals		
E. coli	1.00	MPN/100 mL
Enterococci	ND(1.00)	MPN/100 mL
Fecal Coliform	ND(2.00)	CFU/100 mL
SP-8, Galley Wastewater Overboard Discharge	**Grab 1**	**Unit**
Day 1	**65731**	
Microbiologicals		
E. coli	EXCLUDE	MPN/100 mL
Enterococci	EXCLUDE	MPN/100 mL
Fecal Coliform	EXCLUDE	CFU/100 mL

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).
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Appendix A-1
(continued)
Microbiologicals Analytical Results
Island Princess

SP-9, Laundry Wastewater Overboard	**Grab 1**	**Unit**
Day 1	**65733**	
Microbiologicals		
E. coli	EXCLUDE	MPN/100 mL
Enterococci	EXCLUDE	MPN/100 mL
Fecal Coliform	EXCLUDE	CFU/100 mL
SP-10, Food Pulper Wastewater Overboard Discharge	**Grab 1**	**Unit**
Day 1	**65737**	
Microbiologicals		
E. coli	EXCLUDE	MPN/100 mL
Enterococci	EXCLUDE	MPN/100 mL
Fecal Coliform	EXCLUDE	CFU/100 mL
SP-14, Source Water	**Grab 1**	**Unit**
Day 2	**65753**	
Microbiologicals		
E. coli	ND(1.00)	MPN/100 mL
Enterococci	ND(1.00)	MPN/100 mL
Fecal Coliform	ND(1.00)	CFU/100 mL

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
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ND - Not detected (number in parentheses is detection limit).
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Appendix A-2

Sample Numbers, Except for Pathogen Indicators
Island Princess

Sampling Point (SP)	Sample Numbers				
	8/28/04 - 8/29/04	8/29/04 - 8/30/04	8/30/04 - 8/31/04	8/31/04 - 9/01/04	9/01/04 - 9/02/04
	Day 1	Day 2	Day 3	Day 4	Day 5
Galley Wastewater (SP-1)	65591	65595	65599	65603	65607
Laundry Wastewater (SP-2)	65611	65615	65619	65623	65627
Accommodations Wastewater (SP-3)	65631	65635	65639	65643	65647
Influent to Wastewater Treatment System (SP-4)	65651	65655	65659	65663	65667
Effluent from Wastewater Treatment System (SP-6)	65691	65695	65699	65703	65707
Effluent from Wastewater Treatment System (Duplicate) (SP-7)	65711	65715	65719	65723	65727
Galley Overboard Discharge (SP-8)	65731[1]				
Laundry Overboard Discharge (SP-9)	65733[1]				
Food Pulper Overboard Discharge (SP-10)	65737[1]				65760[2]
Screening Solids (SP-11)			65741		
Waste Biosludge (Desludge) (SP-12)	65745[1]				

Appendix A-2
(continued)
Sample Numbers, Except for Pathogen Indicators
Island Princess

Sampling Point (SP)	Sample Numbers				
	8/28/04 - 8/29/04	8/29/04 - 8/30/04	8/30/04 - 8/31/04	8/31/04 - 9/01/04	9/01/04 - 9/02/04
	Day 1	Day 2	Day 3	Day 4	Day 5
Incinerator Ash (SP-13)			65749		
Source Water (SP-14)		65753			
Trip Blank (SP-15)					65757
Equipment Blank (SP-16)	65761				

[1] Samples collected prior to the start of 5-day sampling period in order to characterize overboard discharge of untreated wastewater.
[2]Sample 65760 analyzed for semivolatiles only.

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-1, Galley Wastewater Characterization	Day 1 65591	Day 2 65595	Day 3 65599	Day 4 65603	Day 5 65607	Unit
Classical Pollutants						
Alkalinity	156	72.0	124	ND(10.0)	171	mg/L
Ammonia As Nitrogen (NH3-N)	1.09	0.840	49.0	3.48	1.14	mg/L
P121 Available Cyanide	ND(2.00)	ND(2.00)	ND(2.00)	2.23	2.84	ug/L
Biochemical Oxygen Demand (BOD)	919	803	1,050	4,860	EXCLUDE	mg/L
Chemical Oxygen Demand (COD)	1,830	1,890	1,140	5,760	2,550	mg/L
Chloride	178	110	1,460	190	90.0	mg/L
Hardness	42.0	38.1	503	87.3	54.0	mg/L
Hexane Extractable Material (HEM)	212	238	236	270	440	mg/L
Nitrate/Nitrite (NO2 + NO3-N)	0.100	0.100	ND(0.0500)	ND(0.0500)	0.120	mg/L
Settleable residue	4.00	1.60	0.200	61.0	EXCLUDE	mL/L
Silica Gel Treated HEM (SGT-HEM)	ND(4.90)	ND(4.80)	ND(5.00)	ND(5.10)	ND(5.00)	mg/L
Sulfate	73.0	57.0	216	20.0	111	mg/L
P121 Total Cyanide	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)	mg/L
Total Dissolved Solids (TDS)	1,290	788	3,420	2,010	1,090	mg/L
Total Kjeldahl Nitrogen (TKN)	37.1	29.8	90.6	126	28.2	mg/L
Total Organic Carbon (TOC)	392	275	297	1,200	333	mg/L
Total Phosphorus	4.10	15.2	13.3	36.4	50.0	mg/L
Total Suspended Solids (TSS)	262	266	248	3,720	400	mg/L

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ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-1, Galley Wastewater Characterization	Day 1 65591	Day 2 65595	Day 3 65599	Day 4 65603	Day 5 65607	Unit
Total and Dissolved Metals						
Aluminum	806	3,300	263	811	1,000	ug/L
P114 Antimony	ND(5.97)	ND(5.97)	ND(5.97)	ND(5.97)	ND(5.97)	ug/L
P115 Arsenic	ND(2.32)	ND(2.32)	ND(2.32)	ND(2.32)	ND(2.32)	ug/L
Barium	56.0	34.0	12.0	23.0	48.2	ug/L
P117 Beryllium	ND(0.0540)	ND(0.0540)	ND(0.0540)	ND(0.0540)	ND(0.0540)	ug/L
Boron	ND(3.37)	ND(3.37)	434	207	139	ug/L
P118 Cadmium	ND(0.446)	ND(0.446)	1.00	0.580	ND(0.446)	ug/L
Calcium	12,300	11,800	46,000	23,500	16,800	ug/L
P119 Chromium	11.0	7.00	ND(1.68)	7.20	9.50	ug/L
Cobalt	ND(0.914)	ND(0.914)	1.00	ND(0.914)	ND(0.914)	ug/L
P120 Copper	452	852	152	807	836	ug/L
Iron	813	842	367	918	574	ug/L
P122 Lead	8.00	6.00	ND(3.08)	9.50	7.90	ug/L
Magnesium	2,740	2,100	94,200	6,960	2,930	ug/L
Manganese	32.0	31.0	40.0	81.0	21.9	ug/L
P123 Mercury	ND(0.0170)	ND(0.0170)	ND(0.0170)	0.210	0.150	ug/L
Molybdenum	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ug/L
P124 Nickel	28.0	28.0	22.0	34.2	22.9	ug/L
P125 Selenium	1.00	1.00	70.0	2.90	1.30	ug/L
P126 Silver	ND(1.28)	ND(1.28)	ND(1.28)	ND(1.28)	ND(1.28)	ug/L
Sodium	256,000	126,000	788,000	181,000	192,000	ug/L
P127 Thallium	ND(0.00900)	ND(0.00900)	ND(0.00900)	0.0200	0.0100	ug/L
Tin	13.0	8.00	5.00	31.6	70.9	ug/L
Titanium	6.00	4.00	ND(0.253)	2.00	5.00	ug/L
Vanadium	ND(0.679)	ND(0.679)	ND(0.679)	ND(0.679)	ND(0.679)	ug/L
Yttrium	ND(0.222)	ND(0.222)	ND(0.222)	ND(0.222)	ND(0.222)	ug/L
P128 Zinc	1,030	644	587	2,160	1,010	ug/L
Aluminum, Dissolved	723	910	159	600	523	ug/L
P114 Antimony, Dissolved	ND(5.97)	ND(5.97)	ND(5.97)	ND(5.97)	ND(5.97)	ug/L
P115 Arsenic, Dissolved	ND(2.32)	ND(2.32)	ND(2.32)	ND(2.32)	ND(2.32)	ug/L
Barium, Dissolved	22.2	7.70	10.6	13.8	24.2	ug/L
P117 Beryllium, Dissolved	ND(0.0540)	ND(0.0540)	ND(0.0540)	ND(0.0540)	ND(0.0540)	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	SP-1, Galley Wastewater Characterization	Day 1 65591	Day 2 65595	Day 3 65599	Day 4 65603	Day 5 65607	Unit
Total and Dissolved Metals							
	Boron, Dissolved	ND(3.37)	ND(3.37)	417	ND(3.37)	ND(3.37)	ug/L
P118	Cadmium, Dissolved	ND(0.446)	ND(0.446)	ND(0.446)	ND(0.446)	ND(0.446)	ug/L
	Calcium, Dissolved	10,700	9,170	44,000	20,800	13,600	ug/L
P119	Chromium, Dissolved	4.90	2.10	ND(1.68)	2.50	5.50	ug/L
	Cobalt, Dissolved	2.90	6.40	3.50	6.40	5.00	ug/L
P120	Copper, Dissolved	400	726	99.8	467	700	ug/L
	Iron, Dissolved	535	281	270	286	429	ug/L
P122	Lead, Dissolved	6.70	3.20	ND(3.08)	ND(3.08)	8.70	ug/L
	Magnesium, Dissolved	2,670	1,850	90,600	6,100	2,920	ug/L
	Manganese, Dissolved	22.7	20.2	8.30	9.80	23.9	ug/L
P123	Mercury, Dissolved	0.0300	0.0300	0.0400	0.120	0.0900	ug/L
	Molybdenum, Dissolved	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ug/L
P124	Nickel, Dissolved	26.4	22.5	21.5	30.0	21.2	ug/L
P125	Selenium, Dissolved	1.00	1.00	70.0	2.90	1.50	ug/L
P126	Silver, Dissolved	ND(1.28)	ND(1.28)	ND(1.28)	ND(1.28)	ND(1.28)	ug/L
	Sodium, Dissolved	248,000	123,000	746,000	171,000	184,000	ug/L
P127	Thallium, Dissolved	0.0100	ND(0.00900)	0.0100	0.0100	ND(0.00900)	ug/L
	Tin, Dissolved	9.00	4.80	ND(3.45)	7.20	50.7	ug/L
	Titanium, Dissolved	5.20	ND(0.253)	ND(0.253)	ND(10.0)	ND(10.0)	ug/L
	Vanadium, Dissolved	1.40	2.90	1.80	ND(0.679)	ND(0.679)	ug/L
	Yttrium, Dissolved	ND(0.222)	ND(0.222)	ND(0.222)	ND(0.222)	ND(0.222)	ug/L
P128	Zinc, Dissolved	864	617	496	1,880	923	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-1, Galley Wastewater Characterization	Day 1 65591	Day 2 65595	Day 3 65599	Day 4 65603	Day 5 65607	Unit
Volatile and Semitvolatile Organics						
P011 1,1,1-Trichloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P015 1,1,2,2-Tetrachloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P014 1,1,2-Trichloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P013 1,1-Dichloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P029 1,1-Dichloroethene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P008 1,2,4-Trichlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P025 1,2-Dichlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P010 1,2-Dichloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P032 1,2-Dichloropropane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P026 1,3-Dichlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P027 1,4-Dichlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P042 2,2'-Oxybis(1-chloropropane)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P021 2,4,6-Trichlorophenol	ND(14.5)	ND(11.0)	ND(13.0)	ND(10.0)	ND(10.0)	ug/L
P031 2,4-Dichlorophenol	ND(14.5)	ND(11.0)	ND(13.0)	ND(10.0)	ND(10.0)	ug/L
P034 2,4-Dimethylphenol	ND(14.5)	ND(10.0)	ND(13.0)	ND(10.0)	ND(10.0)	ug/L
P059 2,4-Dinitrophenol	ND(72.5)	ND(56.0)	ND(64.9)	ND(50.0)	ND(50.0)	ug/L
P035 2,4-Dinitrotoluene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P036 2,6-Dinitrotoluene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P019 2-Chloroethyl vinyl ether	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ug/L
P020 2-Chloronaphthalene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P024 2-Chlorophenol	ND(14.5)	ND(11.0)	ND(13.0)	ND(10.0)	ND(10.0)	ug/L
P057 2-Nitrophenol	ND(29.0)	ND(22.0)	ND(26.0)	ND(20.0)	ND(20.0)	ug/L
P028 3,3'-Dichlorobenzidine	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ug/L
4,6-Dinitro-2-methylphenol	ND(29.0)	ND(22.0)	ND(26.0)	ND(20.0)	ND(20.0)	ug/L
4-Bromophenyl phenyl ether	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P022 4-Chloro-3-methylphenol	ND(14.5)	ND(11.0)	ND(13.0)	ND(10.0)	ND(10.0)	ug/L
4-Chlorophenyl phenyl ether	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P058 4-Nitrophenol	ND(72.5)	ND(56.0)	ND(64.9)	ND(50.0)	ND(50.0)	ug/L
P001 Acenaphthene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P077 Acenaphthylene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P078 Anthracene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P004 Benzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-1, Galley Wastewater Characterization	Day 1 65591	Day 2 65595	Day 3 65599	Day 4 65603	Day 5 65607	Unit
Volatile and Semitvolatile Organics						
P005 Benzidine	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ug/L
P072 Benzo(a)anthracene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P073 Benzo(a)pyrene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P074 Benzo(b)fluoranthene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Benzo(g,h,i)perylene	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ug/L
P075 Benzo(k)fluoranthene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P043 Bis(2-chloroethoxy)methane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Bis(2-Chloroethyl)ether	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P066 Bis(2-ethylhexyl) phthalate	271	201	ND(10.0)	170	350	ug/L
P048 Bromodichloromethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Bromoform	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P046 Bromomethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P067 Butyl benzyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Carbon tetrachloride	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P007 Chlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P016 Chloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P023 Chloroform	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	13.7	ug/L
P045 Chloromethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P076 Chrysene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
cis-1,3-Dichloropropene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Dibenz(a,h)anthracene	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ug/L
P051 Dibromochloromethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P070 Diethyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P071 Dimethyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P068 Di-n-butyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P069 Di-n-octyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P038 Ethylbenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P039 Fluoranthene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P080 Fluorene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P009 Hexachlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P052 Hexachlorobutadiene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P053 Hexachlorocyclopentadiene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-1, Galley Wastewater Characterization	Day 1 65591	Day 2 65595	Day 3 65599	Day 4 65603	Day 5 65607	Unit
Volatile and Semitvolatile Organics						
P012 Hexachloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P083 Indeno(1,2,3-cd)pyrene	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ug/L
P054 Isophorone	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P044 Methylene chloride	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P055 Naphthalene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P056 Nitrobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P061 N-Nitrosodimethylamine	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ug/L
N-Nitroso Di-n-propylamine	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ug/L
P062 N-Nitrosodiphenylamine	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ug/L
P064 Pentachlorophenol	ND(72.5)	ND(56.0)	ND(64.9)	ND(50.0)	ND(50.0)	ug/L
P081 Phenanthrene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P065 Phenol	90.9	125	89.7	96.9	85.1	ug/L
P084 Pyrene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P085 Tetrachloroethene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P086 Toluene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P030 trans-1,2-Dichloroethene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P033 trans-1,3-Dichloropropene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P087 Trichloroethene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Trichlorofluoromethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P088 Vinyl chloride	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-1, Galley Wastewater Characterization	Day 1 65591	Day 2 65595	Day 3 65599	Day 4 65603	Day 5 65607	Unit
Pesticides						
1,2-Dibromo-3-chloropropane	NC	NC	ND(0.200)	NC	NC	ug/L
4,4'-DDD	NC	NC	ND(0.200)	NC	NC	ug/L
4,4'-DDE	NC	NC	ND(0.100)	NC	NC	ug/L
4,4'-DDT	NC	NC	ND(0.100)	NC	NC	ug/L
Acephate	NC	NC	ND(20.0)	NC	NC	ug/L
Alachlor	NC	NC	ND(0.200)	NC	NC	ug/L
Aldrin	NC	NC	ND(0.200)	NC	NC	ug/L
alpha-BHC	NC	NC	ND(0.0500)	NC	NC	ug/L
alpha-Chlordane	NC	NC	ND(0.100)	NC	NC	ug/L
Atrazine	NC	NC	ND(10.0)	NC	NC	ug/L
Azinphos Ethyl	NC	NC	ND(2.00)	NC	NC	ug/L
Azinphos Methyl	NC	NC	ND(1.00)	NC	NC	ug/L
Benfluralin	NC	NC	ND(0.200)	NC	NC	ug/L
beta-BHC	NC	NC	ND(0.100)	NC	NC	ug/L
Bromacil	NC	NC	ND(1.00)	NC	NC	ug/L
Bromoxynil Octanoate	NC	NC	ND(0.500)	NC	NC	ug/L
Butachlor	NC	NC	ND(0.500)	NC	NC	ug/L
Captafol	NC	NC	ND(2.00)	NC	NC	ug/L
Captan	NC	NC	ND(1.00)	NC	NC	ug/L
Carbophenothion	NC	NC	ND(1.00)	NC	NC	ug/L
Chlorfenvinphos	NC	NC	ND(2.00)	NC	NC	ug/L
Chlorobenzilate	NC	NC	ND(1.00)	NC	NC	ug/L
Chloroneb	NC	NC	ND(1.00)	NC	NC	ug/L
Chloropropylate	NC	NC	ND(1.00)	NC	NC	ug/L
Chlorothalonil	NC	NC	ND(0.200)	NC	NC	ug/L
Chlorpyrifos	NC	NC	ND(2.00)	NC	NC	ug/L
cis-Permethrin	NC	NC	ND(2.00)	NC	NC	ug/L
Coumaphos	NC	NC	ND(5.00)	NC	NC	ug/L
Crotoxyphos	NC	NC	ND(5.00)	NC	NC	ug/L
Dacthal (DCPS)	NC	NC	ND(0.0500)	NC	NC	ug/L
DEF	NC	NC	ND(2.00)	NC	NC	ug/L
delta-BHC	NC	NC	ND(0.0500)	NC	NC	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-1, Galley Wastewater Characterization	Day 1 65591	Day 2 65595	Day 3 65599	Day 4 65603	Day 5 65607	Unit
Pesticides						
Demeton A	NC	NC	ND(4.00)	NC	NC	ug/L
Demeton B	NC	NC	ND(4.00)	NC	NC	ug/L
Diallate A	NC	NC	ND(2.00)	NC	NC	ug/L
Diallate B	NC	NC	ND(2.00)	NC	NC	ug/L
Diazinon	NC	NC	ND(2.00)	NC	NC	ug/L
Dichlofenthion	NC	NC	ND(2.00)	NC	NC	ug/L
Dichlone	NC	NC	ND(0.200)	NC	NC	ug/L
Dichlorvos	NC	NC	ND(5.00)	NC	NC	ug/L
Dicofol	NC	NC	ND(1.00)	NC	NC	ug/L
Dicrotophos	NC	NC	ND(2.00)	NC	NC	ug/L
Dieldrin	NC	NC	ND(0.100)	NC	NC	ug/L
Dimethoate	NC	NC	ND(2.00)	NC	NC	ug/L
Dioxathion	NC	NC	ND(5.00)	NC	NC	ug/L
Disulfoton	NC	NC	ND(2.00)	NC	NC	ug/L
Endosulfan I	NC	NC	ND(0.100)	NC	NC	ug/L
Endosulfan II	NC	NC	ND(1.00)	NC	NC	ug/L
Endosulfan Sulfate	NC	NC	ND(0.100)	NC	NC	ug/L
Endrin	NC	NC	ND(0.200)	NC	NC	ug/L
Endrin Aldehyde	NC	NC	ND(0.100)	NC	NC	ug/L
Endrin Ketone	NC	NC	ND(0.100)	NC	NC	ug/L
EPN	NC	NC	ND(2.00)	NC	NC	ug/L
Ethalfluralin	NC	NC	ND(0.100)	NC	NC	ug/L
Ethion	NC	NC	ND(2.00)	NC	NC	ug/L
Ethoprop	NC	NC	ND(2.00)	NC	NC	ug/L
Etridiazole	NC	NC	ND(0.200)	NC	NC	ug/L
Famphur	NC	NC	ND(5.00)	NC	NC	ug/L
Fenarimol	NC	NC	ND(0.200)	NC	NC	ug/L
Fensulfothion	NC	NC	ND(5.00)	NC	NC	ug/L
Fenthion	NC	NC	ND(2.00)	NC	NC	ug/L
gamma-BHC	NC	NC	ND(0.0500)	NC	NC	ug/L
gamma-Chlordane	NC	NC	ND(0.0500)	NC	NC	ug/L
Heptachlor	NC	NC	ND(0.100)	NC	NC	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-1, Galley Wastewater Characterization	Day 1 65591	Day 2 65595	Day 3 65599	Day 4 65603	Day 5 65607	Unit
Pesticides						
Heptachlor Epoxide	NC	NC	ND(0.0500)	NC	NC	ug/L
Hexamethylphosphoramide	NC	NC	ND(2.00)	NC	NC	ug/L
Isodrin	NC	NC	ND(0.100)	NC	NC	ug/L
Isopropalin	NC	NC	ND(0.200)	NC	NC	ug/L
Kepone	NC	NC	ND(1.00)	NC	NC	ug/L
Leptophos	NC	NC	ND(2.00)	NC	NC	ug/L
Malathion	NC	NC	ND(2.00)	NC	NC	ug/L
Merphos A	NC	NC	ND(2.00)	NC	NC	ug/L
Merphos B	NC	NC	ND(2.00)	NC	NC	ug/L
Methamidophos	NC	NC	ND(20.0)	NC	NC	ug/L
Methoxychlor	NC	NC	ND(0.200)	NC	NC	ug/L
Methyl Parathion	NC	NC	ND(2.00)	NC	NC	ug/L
Methyl Trithion	NC	NC	ND(5.00)	NC	NC	ug/L
Metribuzin	NC	NC	ND(0.100)	NC	NC	ug/L
Mevinphos	NC	NC	ND(5.00)	NC	NC	ug/L
Mirex	NC	NC	ND(0.200)	NC	NC	ug/L
Monocrotophos	NC	NC	ND(20.0)	NC	NC	ug/L
Naled	NC	NC	ND(2.00)	NC	NC	ug/L
Nitrofen	NC	NC	ND(0.200)	NC	NC	ug/L
Norflurazon	NC	NC	ND(1.00)	NC	NC	ug/L
Parathion (ethyl)	NC	NC	ND(2.00)	NC	NC	ug/L
PCB 1016	NC	NC	ND(1.00)	NC	NC	ug/L
PCB 1221	NC	NC	ND(1.00)	NC	NC	ug/L
PCB 1232	NC	NC	ND(1.00)	NC	NC	ug/L
PCB 1242	NC	NC	ND(1.00)	NC	NC	ug/L
PCB 1248	NC	NC	ND(1.00)	NC	NC	ug/L
PCB 1254	NC	NC	ND(1.00)	NC	NC	ug/L
PCB 1260	NC	NC	ND(1.00)	NC	NC	ug/L
Pendamethalin	NC	NC	ND(0.500)	NC	NC	ug/L
Pentachloronitrobenzene (PCNB)	NC	NC	ND(0.0500)	NC	NC	ug/L
Perthane	NC	NC	ND(10.0)	NC	NC	ug/L
Phorate	NC	NC	ND(2.00)	NC	NC	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-1, Galley Wastewater Characterization	Day 1 65591	Day 2 65595	Day 3 65599	Day 4 65603	Day 5 65607	Unit
Pesticides						
Phosmet	NC	NC	ND(5.00)	NC	NC	ug/L
Phosphamidon E	NC	NC	ND(1.00)	NC	NC	ug/L
Phosphamidon Z	NC	NC	ND(1.00)	NC	NC	ug/L
Propachlor	NC	NC	ND(0.100)	NC	NC	ug/L
Propanil	NC	NC	ND(1.00)	NC	NC	ug/L
Propazine	NC	NC	ND(1.00)	NC	NC	ug/L
Ronnel	NC	NC	ND(2.00)	NC	NC	ug/L
Simazine	NC	NC	ND(8.00)	NC	NC	ug/L
Strobane	NC	NC	ND(5.00)	NC	NC	ug/L
Sulfotep	NC	NC	ND(2.00)	NC	NC	ug/L
Sulprofos	NC	NC	ND(2.00)	NC	NC	ug/L
Tepp	NC	NC	ND(2.00)	NC	NC	ug/L
Terbacil	NC	NC	ND(2.00)	NC	NC	ug/L
Terbufos	NC	NC	ND(2.00)	NC	NC	ug/L
Terbuthylazine	NC	NC	ND(5.00)	NC	NC	ug/L
Tetrachlorvinphos	NC	NC	ND(2.00)	NC	NC	ug/L
Tokuthion	NC	NC	ND(2.00)	NC	NC	ug/L
Toxaphene	NC	NC	ND(5.00)	NC	NC	ug/L
trans-Permethrin	NC	NC	ND(2.00)	NC	NC	ug/L
Triadimefon	NC	NC	ND(1.00)	NC	NC	ug/L
Trichlorfon	NC	NC	ND(5.00)	NC	NC	ug/L
Trichloronate	NC	NC	ND(2.00)	NC	NC	ug/L
Tricresylphosphate	NC	NC	ND(20.0)	NC	NC	ug/L
Trifluralin	NC	NC	ND(0.100)	NC	NC	ug/L
Trimethylphosphate	NC	NC	ND(2.00)	NC	NC	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-2, Laundry Wastewater Characterization	Day 1 65611	Day 2 65615	Day 3 65619	Day 4 65623	Day 5 65627	Unit
Classical Pollutants						
Alkalinity	51.0	78.0	57.0	62.0	63.0	mg/L
Ammonia As Nitrogen (NH3-N)	5.30	0.320	0.200	0.400	0.250	mg/L
P121 Available Cyanide	NC	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ug/L
Biochemical Oxygen Demand (BOD)	73.1	68.5	149	110	EXCLUDE	mg/L
Chemical Oxygen Demand (COD)	300	442	366	444	350	mg/L
Chloride	34.0	27.0	36.0	44.0	26.0	mg/L
Hardness	23.3	20.4	21.0	21.8	39.3	mg/L
Hexane Extractable Material (HEM)	NC	7.50	9.40	5.60	8.40	mg/L
Nitrate/Nitrite (NO2 + NO3-N)	0.120	0.170	0.120	0.150	0.190	mg/L
Settleable residue	ND(0.100)	0.300	5.60	0.900	EXCLUDE	mL/L
Silica Gel Treated HEM (SGT-HEM)	NC	ND(4.40)	ND(5.00)	ND(4.90)	ND(5.20)	mg/L
Sulfate	22.0	19.0	22.0	19.0	21.0	mg/L
P121 Total Cyanide	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)	mg/L
Total Dissolved Solids (TDS)	218	248	298	304	211	mg/L
Total Kjeldahl Nitrogen (TKN)	ND(20.0)	6.30	5.10	8.60	4.50	mg/L
Total Organic Carbon (TOC)	54.4	98.6	76.0	98.0	66.6	mg/L
Total Phosphorus	6.00	6.50	11.4	10.7	6.90	mg/L
Total Suspended Solids (TSS)	56.0	66.0	80.0	63.0	46.0	mg/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-2, Laundry Wastewater Characterization	Day 1 65611	Day 2 65615	Day 3 65619	Day 4 65623	Day 5 65627	Unit
Total and Dissolved Metals						
Aluminum	167	155	187	209	111	ug/L
P114 Antimony	ND(5.97)	ND(5.97)	ND(5.97)	ND(5.97)	ND(5.97)	ug/L
P115 Arsenic	ND(2.32)	ND(2.32)	ND(2.32)	ND(2.32)	ND(2.32)	ug/L
Barium	17.0	15.0	17.0	30.7	33.0	ug/L
P117 Beryllium	ND(0.0540)	ND(0.0540)	ND(0.0540)	ND(0.0540)	ND(0.0540)	ug/L
Boron	ND(3.37)	ND(3.37)	ND(3.37)	ND(3.37)	ND(3.37)	ug/L
P118 Cadmium	ND(0.446)	ND(0.446)	ND(0.446)	ND(0.446)	ND(0.446)	ug/L
Calcium	7,900	7,390	7,630	8,000	13,600	ug/L
P119 Chromium	3.00	3.00	12.0	5.30	1.80	ug/L
Cobalt	ND(0.914)	ND(0.914)	1.00	ND(0.914)	ND(0.914)	ug/L
P120 Copper	261	304	298	484	277	ug/L
Iron	120	164	460	319	86.1	ug/L
P122 Lead	3.40	5.00	26.0	18.8	6.20	ug/L
Magnesium	861	470	474	453	1,290	ug/L
Manganese	3.00	3.00	7.00	4.70	2.10	ug/L
P123 Mercury	0.0300	0.0400	0.0300	0.150	0.170	ug/L
Molybdenum	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ug/L
P124 Nickel	7.00	7.00	11.0	10.1	4.20	ug/L
P125 Selenium	4.00	ND(0.572)	ND(0.572)	0.610	ND(0.572)	ug/L
P126 Silver	3.00	3.00	7.00	6.20	ND(1.28)	ug/L
Sodium	43,000	51,800	50,600	59,200	37,100	ug/L
P127 Thallium	ND(0.00900)	ND(0.00900)	ND(0.00900)	ND(0.00900)	ND(0.00900)	ug/L
Tin	ND(3.45)	ND(3.45)	ND(3.45)	ND(3.45)	ND(3.45)	ug/L
Titanium	ND(0.253)	4.00	7.00	6.10	7.50	ug/L
Vanadium	ND(0.679)	ND(0.679)	ND(0.679)	ND(0.679)	ND(0.679)	ug/L
Yttrium	ND(0.222)	ND(0.222)	ND(0.222)	ND(0.222)	ND(0.222)	ug/L
P128 Zinc	481	328	685	510	348	ug/L
Aluminum, Dissolved	97.2	ND(9.93)	ND(9.93)	95.3	50.5	ug/L
P114 Antimony, Dissolved	ND(5.97)	ND(5.97)	ND(5.97)	ND(5.97)	ND(5.97)	ug/L
P115 Arsenic, Dissolved	ND(2.32)	ND(2.32)	ND(2.32)	ND(2.32)	ND(2.32)	ug/L
Barium, Dissolved	12.2	5.80	3.70	6.50	24.5	ug/L
P117 Beryllium, Dissolved	ND(0.0540)	ND(0.0540)	ND(0.0540)	ND(0.0540)	ND(0.0540)	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	SP-2, Laundry Wastewater Characterization	Day 1 65611	Day 2 65615	Day 3 65619	Day 4 65623	Day 5 65627	Unit
Total and Dissolved Metals							
	Boron, Dissolved	ND(3.37)	ND(3.37)	ND(3.37)	ND(3.37)	ND(3.37)	ug/L
P118	Cadmium, Dissolved	ND(0.446)	ND(0.446)	ND(0.446)	ND(0.446)	ND(0.446)	ug/L
	Calcium, Dissolved	7,270	6,660	6,170	7,080	13,100	ug/L
P119	Chromium, Dissolved	ND(1.68)	ND(1.68)	ND(1.68)	ND(1.68)	ND(1.68)	ug/L
	Cobalt, Dissolved	3.00	2.70	2.90	2.50	2.30	ug/L
P120	Copper, Dissolved	193	202	212	392	213	ug/L
	Iron, Dissolved	ND(19.8)	ND(19.8)	ND(19.8)	61.1	45.9	ug/L
P122	Lead, Dissolved	5.70	ND(3.08)	8.80	6.50	3.90	ug/L
	Magnesium, Dissolved	816	433	408	421	1,270	ug/L
	Manganese, Dissolved	5.10	4.90	6.30	6.00	4.70	ug/L
P123	Mercury, Dissolved	0.0200	0.0500	0.0500	0.110	0.160	ug/L
	Molybdenum, Dissolved	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ug/L
P124	Nickel, Dissolved	4.80	3.30	5.70	5.10	4.60	ug/L
P125	Selenium, Dissolved	0.860	0.600	ND(0.572)	0.660	0.800	ug/L
P126	Silver, Dissolved	ND(1.28)	ND(1.28)	ND(1.28)	ND(1.28)	ND(1.28)	ug/L
	Sodium, Dissolved	42,600	51,900	49,000	59,000	36,800	ug/L
P127	Thallium, Dissolved	ND(0.00900)	ND(0.00900)	ND(0.00900)	ND(0.00900)	ND(0.00900)	ug/L
	Tin, Dissolved	ND(3.45)	ND(3.45)	ND(3.45)	ND(3.45)	ND(3.45)	ug/L
	Titanium, Dissolved	ND(0.253)	ND(0.253)	ND(0.253)	ND(10.0)	ND(10.0)	ug/L
	Vanadium, Dissolved	ND(0.679)	ND(0.679)	ND(0.679)	ND(0.679)	ND(0.679)	ug/L
	Yttrium, Dissolved	ND(0.222)	ND(0.222)	ND(0.222)	ND(0.222)	ND(0.222)	ug/L
P128	Zinc, Dissolved	324	204	535	355	277	ug/L

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NC - Not collected.
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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	SP-2, Laundry Wastewater Characterization	Day 1 65611	Day 2 65615	Day 3 65619	Day 4 65623	Day 5 65627	Unit
Volatile and Semitvolatile Organics							
P011	1,1,1-Trichloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P015	1,1,2,2-Tetrachloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P014	1,1,2-Trichloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P013	1,1-Dichloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P029	1,1-Dichloroethene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P008	1,2,4-Trichlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P025	1,2-Dichlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P010	1,2-Dichloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P032	1,2-Dichloropropane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P026	1,3-Dichlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P027	1,4-Dichlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P042	2,2'-Oxybis(1-chloropropane)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P021	2,4,6-Trichlorophenol	ND(10.0)	ND(10.0)	ND(12.0)	ND(10.0)	ND(10.0)	ug/L
P031	2,4-Dichlorophenol	ND(10.0)	ND(10.0)	ND(12.0)	ND(10.0)	ND(10.0)	ug/L
P034	2,4-Dimethylphenol	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P059	2,4-Dinitrophenol	ND(50.0)	ND(50.0)	ND(58.0)	ND(50.0)	ND(50.0)	ug/L
P035	2,4-Dinitrotoluene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P036	2,6-Dinitrotoluene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P019	2-Chloroethyl vinyl ether	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ug/L
P020	2-Chloronaphthalene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P024	2-Chlorophenol	ND(10.0)	ND(10.0)	ND(12.0)	ND(10.0)	ND(10.0)	ug/L
P057	2-Nitrophenol	ND(20.0)	ND(20.0)	ND(23.0)	ND(20.0)	ND(20.0)	ug/L
P028	3,3'-Dichlorobenzidine	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ug/L
	4,6-Dinitro-2-methylphenol	ND(20.0)	ND(20.0)	ND(23.0)	ND(20.0)	ND(20.0)	ug/L
	4-Bromophenyl phenyl ether	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P022	4-Chloro-3-methylphenol	ND(10.0)	ND(10.0)	ND(12.0)	ND(10.0)	ND(10.0)	ug/L
	4-Chlorophenyl phenyl ether	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P058	4-Nitrophenol	ND(50.0)	ND(50.0)	ND(58.0)	ND(50.0)	ND(50.0)	ug/L
P001	Acenaphthene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P077	Acenaphthylene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P078	Anthracene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P004	Benzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-2, Laundry Wastewater Characterization	Day 1 65611	Day 2 65615	Day 3 65619	Day 4 65623	Day 5 65627	Unit
Volatile and Semitvolatile Organics						
P005 Benzidine	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ug/L
P072 Benzo(a)anthracene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P073 Benzo(a)pyrene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P074 Benzo(b)fluoranthene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Benzo(g,h,i)perylene	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ug/L
P075 Benzo(k)fluoranthene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P043 Bis(2-chloroethoxy)methane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Bis(2-Chloroethyl)ether	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P066 Bis(2-ethylhexyl) phthalate	75.4	120	113	102	52.4	ug/L
P048 Bromodichloromethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Bromoform	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P046 Bromomethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P067 Butyl benzyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Carbon tetrachloride	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P007 Chlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P016 Chloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P023 Chloroform	94.9	90.7	106	129	86.1	ug/L
P045 Chloromethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P076 Chrysene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
cis-1,3-Dichloropropene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Dibenz(a,h)anthracene	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ug/L
P051 Dibromochloromethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P070 Diethyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P071 Dimethyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P068 Di-n-butyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P069 Di-n-octyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P038 Ethylbenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P039 Fluoranthene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P080 Fluorene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P009 Hexachlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P052 Hexachlorobutadiene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P053 Hexachlorocyclopentadiene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-2, Laundry Wastewater Characterization	Day 1 65611	Day 2 65615	Day 3 65619	Day 4 65623	Day 5 65627	Unit
Volatile and Semitvolatile Organics						
P012 Hexachloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P083 Indeno(1,2,3-cd)pyrene	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ug/L
P054 Isophorone	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P044 Methylene chloride	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P055 Naphthalene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P056 Nitrobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P061 N-Nitrosodimethylamine	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ug/L
N-Nitroso Di-n-propylamine	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ug/L
P062 N-Nitrosodiphenylamine	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ug/L
P064 Pentachlorophenol	ND(50.0)	ND(50.0)	ND(58.0)	ND(50.0)	ND(50.0)	ug/L
P081 Phenanthrene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P065 Phenol	133	73.8	101	84.6	73.6	ug/L
P084 Pyrene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P085 Tetrachloroethene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P086 Toluene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P030 trans-1,2-Dichloroethene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P033 trans-1,3-Dichloropropene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P087 Trichloroethene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Trichlorofluoromethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P088 Vinyl chloride	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-2, Laundry Wastewater Characterization	Day 1 65611	Day 2 65615	Day 3 65619	Day 4 65623	Day 5 65627	Unit
Dioxins and Furans						
1,2,3,4,6,7,8-HpCDD	ND(58.1)	NC	NC	NC	NC	pg/L
1,2,3,4,6,7,8-HpCDF	ND(58.1)	NC	NC	NC	NC	pg/L
1,2,3,4,7,8,9-HpCDF	ND(58.1)	NC	NC	NC	NC	pg/L
1,2,3,4,7,8-HxCDD	ND(58.1)	NC	NC	NC	NC	pg/L
1,2,3,4,7,8-HxCDF	ND(58.1)	NC	NC	NC	NC	pg/L
1,2,3,6,7,8-HxCDD	ND(58.1)	NC	NC	NC	NC	pg/L
1,2,3,6,7,8-HxCDF	ND(58.1)	NC	NC	NC	NC	pg/L
1,2,3,7,8,9-HxCDD	ND(58.1)	NC	NC	NC	NC	pg/L
1,2,3,7,8,9-HxCDF	ND(58.1)	NC	NC	NC	NC	pg/L
1,2,3,7,8-PeCDD	ND(58.1)	NC	NC	NC	NC	pg/L
1,2,3,7,8-PeCDF	ND(58.1)	NC	NC	NC	NC	pg/L
2,3,4,6,7,8-HxCDF	ND(58.1)	NC	NC	NC	NC	pg/L
2,3,4,7,8-PeCDF	ND(58.1)	NC	NC	NC	NC	pg/L
2,3,7,8-TCDD	ND(11.6)	NC	NC	NC	NC	pg/L
2,3,7,8-TCDF	ND(11.6)	NC	NC	NC	NC	pg/L
Octachlorodibenzo-p-dioxin	ND(116)	NC	NC	NC	NC	pg/L
Octachlorodibenzofuran	ND(116)	NC	NC	NC	NC	pg/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-3, Accommodations Wastewater Characterization	Day 1 65631	Day 2 65635	Day 3 65639	Day 4 65643	Day 5 65647	Unit
Classical Pollutants						
Alkalinity	73.0	126	96.0	63.0	91.0	mg/L
Ammonia As Nitrogen (NH3-N)	0.680	0.330	0.400	0.340	0.400	mg/L
P121 Available Cyanide	3.13	ND(2.00)	ND(2.00)	2.28	ND(2.00)	ug/L
Biochemical Oxygen Demand (BOD)	158	144	170	109	EXCLUDE	mg/L
Chemical Oxygen Demand (COD)	331	408	332	1,050	340	mg/L
Chloride	15.0	20.0	15.0	12.0	19.0	mg/L
Hardness	24.7	22.6	20.4	20.7	36.9	mg/L
Hexane Extractable Material (HEM)	17.3	21.2	10.1	16.2	15.8	mg/L
Nitrate/Nitrite (NO2 + NO3-N)	0.0500	0.100	ND(0.0500)	ND(0.0500)	0.100	mg/L
Settleable residue	1.30	0.500	ND(0.100)	0.230	EXCLUDE	mL/L
Silica Gel Treated HEM (SGT-HEM)	ND(4.90)	ND(4.80)	ND(4.70)	ND(5.00)	ND(4.40)	mg/L
Sulfate	18.0	30.0	13.0	11.0	13.0	mg/L
P121 Total Cyanide	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)	mg/L
Total Dissolved Solids (TDS)	226	284	221	142	214	mg/L
Total Kjeldahl Nitrogen (TKN)	4.20	9.80	6.40	5.90	7.80	mg/L
Total Organic Carbon (TOC)	66.9	65.4	53.8	34.2	44.8	mg/L
Total Phosphorus	1.31	0.700	0.580	0.360	0.880	mg/L
Total Suspended Solids (TSS)	66.0	102	102	66.0	80.0	mg/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-3, Accommodations Wastewater Characterization	Day 1 65631	Day 2 65635	Day 3 65639	Day 4 65643	Day 5 65647	Unit
Total and Dissolved Metals						
Aluminum	4,820	10,700	7,070	3,890	9,080	ug/L
P114 Antimony	ND(5.97)	ND(5.97)	ND(5.97)	ND(5.97)	ND(5.97)	ug/L
P115 Arsenic	ND(2.32)	ND(2.32)	ND(2.32)	ND(2.32)	ND(2.32)	ug/L
Barium	17.0	17.0	14.0	10.8	33.9	ug/L
P117 Beryllium	0.190	ND(0.0540)	ND(0.0540)	ND(0.0540)	ND(0.0540)	ug/L
Boron	ND(3.37)	ND(3.37)	ND(3.37)	169	266	ug/L
P118 Cadmium	ND(0.446)	ND(0.446)	ND(0.446)	ND(0.446)	ND(0.446)	ug/L
Calcium	8,290	7,690	7,120	7,490	12,800	ug/L
P119 Chromium	2.00	4.00	3.00	ND(1.68)	4.80	ug/L
Cobalt	ND(0.914)	1.00	ND(0.914)	ND(0.914)	ND(0.914)	ug/L
P120 Copper	413	713	387	640	745	ug/L
Iron	259	170	163	118	183	ug/L
P122 Lead	6.00	5.00	5.00	4.00	8.80	ug/L
Magnesium	966	819	646	495	1,190	ug/L
Manganese	11.0	7.00	5.00	3.50	6.10	ug/L
P123 Mercury	0.0400	0.0400	0.0700	0.160	0.170	ug/L
Molybdenum	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ug/L
P124 Nickel	14.0	10.0	11.0	13.5	13.4	ug/L
P125 Selenium	1.00	ND(0.572)	ND(0.572)	0.580	0.640	ug/L
P126 Silver	ND(1.28)	ND(1.28)	ND(1.28)	ND(1.28)	ND(1.28)	ug/L
Sodium	40,300	71,400	50,000	33,700	46,600	ug/L
P127 Thallium	ND(0.00900)	ND(0.00900)	ND(0.00900)	ND(0.00900)	ND(0.00900)	ug/L
Tin	ND(3.45)	ND(3.45)	ND(3.45)	ND(3.45)	ND(3.45)	ug/L
Titanium	3.00	13.0	4.00	ND(0.253)	4.50	ug/L
Vanadium	1.00	ND(0.679)	ND(0.679)	ND(0.679)	ND(0.679)	ug/L
Yttrium	ND(0.222)	ND(0.222)	ND(0.222)	ND(0.222)	ND(0.222)	ug/L
P128 Zinc	940	346	601	647	486	ug/L
Aluminum, Dissolved	350	287	265	190	221	ug/L
P114 Antimony, Dissolved	ND(5.97)	ND(5.97)	ND(5.97)	ND(5.97)	ND(5.97)	ug/L
P115 Arsenic, Dissolved	ND(2.32)	ND(2.32)	ND(2.32)	ND(2.32)	ND(2.32)	ug/L
Barium, Dissolved	ND(0.0970)	0.560	0.860	ND(0.0970)	ND(0.0970)	ug/L
P117 Beryllium, Dissolved	ND(0.0540)	ND(0.0540)	ND(0.0540)	ND(0.0540)	ND(0.0540)	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-3, Accommodations Wastewater Characterization	Day 1 65631	Day 2 65635	Day 3 65639	Day 4 65643	Day 5 65647	Unit
Total and Dissolved Metals						
Boron, Dissolved	ND(3.37)	ND(3.37)	ND(3.37)	ND(3.37)	ND(3.37)	ug/L
P118 Cadmium, Dissolved	ND(0.446)	ND(0.446)	ND(0.446)	ND(0.446)	ND(0.446)	ug/L
Calcium, Dissolved	5,200	2,200	2,820	4,620	6,610	ug/L
P119 Chromium, Dissolved	ND(1.68)	2.20	1.90	ND(1.68)	3.40	ug/L
Cobalt, Dissolved	ND(0.914)	ND(0.914)	ND(0.914)	2.80	1.80	ug/L
P120 Copper, Dissolved	317	617	321	468	588	ug/L
Iron, Dissolved	ND(19.8)	ND(19.8)	ND(19.8)	34.8	174	ug/L
P122 Lead, Dissolved	ND(3.08)	ND(3.08)	ND(3.08)	ND(3.08)	3.90	ug/L
Magnesium, Dissolved	818	572	514	419	1,030	ug/L
Manganese, Dissolved	11.1	5.00	5.60	6.00	7.10	ug/L
P123 Mercury, Dissolved	0.160	ND(0.0170)	0.0300	0.220	0.220	ug/L
Molybdenum, Dissolved	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ug/L
P124 Nickel, Dissolved	13.5	10.1	10.6	12.2	17.3	ug/L
P125 Selenium, Dissolved	0.920	ND(0.572)	ND(0.572)	0.720	0.780	ug/L
P126 Silver, Dissolved	ND(1.28)	ND(1.28)	ND(1.28)	ND(1.28)	ND(1.28)	ug/L
Sodium, Dissolved	38,700	66,400	48,500	33,300	44,100	ug/L
P127 Thallium, Dissolved	ND(0.00900)	ND(0.00900)	ND(0.00900)	ND(0.00900)	ND(0.00900)	ug/L
Tin, Dissolved	ND(3.45)	ND(3.45)	ND(3.45)	ND(3.45)	ND(3.45)	ug/L
Titanium, Dissolved	ND(0.253)	ND(0.253)	ND(0.253)	ND(10.0)	ND(10.0)	ug/L
Vanadium, Dissolved	ND(0.679)	ND(0.679)	ND(0.679)	ND(0.679)	ND(0.679)	ug/L
Yttrium, Dissolved	ND(0.222)	ND(0.222)	ND(0.222)	ND(0.222)	ND(0.222)	ug/L
P128 Zinc, Dissolved	681	259	412	330	336	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-3, Accommodations Wastewater Characterization	Day 1 65631	Day 2 65635	Day 3 65639	Day 4 65643	Day 5 65647	Unit
Volatile and Semitvolatile Organics						
P011 1,1,1-Trichloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P015 1,1,2,2-Tetrachloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P014 1,1,2-Trichloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P013 1,1-Dichloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P029 1,1-Dichloroethene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P008 1,2,4-Trichlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P025 1,2-Dichlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P010 1,2-Dichloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P032 1,2-Dichloropropane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P026 1,3-Dichlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P027 1,4-Dichlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P042 2,2'-Oxybis(1-chloropropane)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P021 2,4,6-Trichlorophenol	ND(13.2)	ND(14.0)	ND(21.0)	ND(10.0)	ND(10.0)	ug/L
P031 2,4-Dichlorophenol	ND(13.2)	ND(14.0)	ND(21.0)	ND(10.0)	ND(10.0)	ug/L
P034 2,4-Dimethylphenol	ND(13.2)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P059 2,4-Dinitrophenol	ND(66.2)	ND(68.0)	ND(100)	ND(50.0)	ND(50.0)	ug/L
P035 2,4-Dinitrotoluene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P036 2,6-Dinitrotoluene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P019 2-Chloroethyl vinyl ether	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ug/L
P020 2-Chloronaphthalene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P024 2-Chlorophenol	ND(13.2)	ND(14.0)	ND(21.0)	ND(10.0)	ND(10.0)	ug/L
P057 2-Nitrophenol	ND(26.5)	ND(27.0)	ND(21.0)	ND(20.0)	ND(20.0)	ug/L
P028 3,3'-Dichlorobenzidine	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ug/L
4,6-Dinitro-2-methylphenol	ND(26.5)	ND(27.0)	ND(21.0)	ND(20.0)	ND(20.0)	ug/L
4-Bromophenyl phenyl ether	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P022 4-Chloro-3-methylphenol	ND(13.2)	ND(14.0)	ND(21.0)	ND(10.0)	ND(10.0)	ug/L
4-Chlorophenyl phenyl ether	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P058 4-Nitrophenol	ND(66.2)	ND(68.0)	ND(21.0)	ND(50.0)	ND(50.0)	ug/L
P001 Acenaphthene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P077 Acenaphthylene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P078 Anthracene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P004 Benzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-3, Accommodations Wastewater Characterization	Day 1 65631	Day 2 65635	Day 3 65639	Day 4 65643	Day 5 65647	Unit
Volatile and Semitvolatile Organics						
P005 Benzidine	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ug/L
P072 Benzo(a)anthracene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P073 Benzo(a)pyrene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P074 Benzo(b)fluoranthene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Benzo(g,h,i)perylene	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ug/L
P075 Benzo(k)fluoranthene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P043 Bis(2-chloroethoxy)methane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Bis(2-Chloroethyl)ether	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P066 Bis(2-ethylhexyl) phthalate	19.6	16.7	33.0	15.1	26.8	ug/L
P048 Bromodichloromethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Bromoform	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P046 Bromomethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P067 Butyl benzyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Carbon tetrachloride	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P007 Chlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P016 Chloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P023 Chloroform	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P045 Chloromethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P076 Chrysene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
cis-1,3-Dichloropropene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Dibenz(a,h)anthracene	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ug/L
P051 Dibromochloromethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P070 Diethyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P071 Dimethyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P068 Di-n-butyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P069 Di-n-octyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P038 Ethylbenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P039 Fluoranthene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P080 Fluorene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P009 Hexachlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P052 Hexachlorobutadiene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P053 Hexachlorocyclopentadiene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-3, Accommodations Wastewater Characterization	Day 1 65631	Day 2 65635	Day 3 65639	Day 4 65643	Day 5 65647	Unit
Volatile and Semitvolatile Organics						
P012 Hexachloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P083 Indeno(1,2,3-cd)pyrene	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ug/L
P054 Isophorone	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P044 Methylene chloride	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P055 Naphthalene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P056 Nitrobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P061 N-Nitrosodimethylamine	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ug/L
N-Nitroso Di-n-propylamine	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ug/L
P062 N-Nitrosodiphenylamine	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ug/L
P064 Pentachlorophenol	ND(66.2)	ND(68.0)	ND(50.0)	ND(50.0)	ND(50.0)	ug/L
P081 Phenanthrene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P065 Phenol	106	ND(14.0)	111	71.5	83.5	ug/L
P084 Pyrene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P085 Tetrachloroethene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P086 Toluene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P030 trans-1,2-Dichloroethene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P033 trans-1,3-Dichloropropene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P087 Trichloroethene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Trichlorofluoromethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P088 Vinyl chloride	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-4, Influent to Wastewater Treatment System	Day 1 65651	Day 2 65655	Day 3 65659	Day 4 65663	Day 5 65667	Unit
Classical Pollutants						
Alkalinity	580	354	376	293	377	mg/L
Ammonia As Nitrogen (NH3-N)	139	69.6	84.6	97.6	80.2	mg/L
P121 Available Cyanide	ND(2.00)	ND(2.00)	30.7	ND(2.00)	ND(2.00)	ug/L
Biochemical Oxygen Demand (BOD)	338	224	409	329	EXCLUDE	mg/L
Chemical Oxygen Demand (COD)	1,560	1,430	667	546	577	mg/L
Chloride	1,530	852	1,180	602	527	mg/L
Hardness	573	346	563	269	258	mg/L
Hexane Extractable Material (HEM)	131	59.2	70.9	117	269	mg/L
Nitrate/Nitrite (NO2 + NO3-N)	0.0600	0.100	ND(0.0500)	ND(0.0500)	ND(0.0500)	mg/L
Settleable residue	1.10	2.60	93.0	65.0	EXCLUDE	mL/L
Silica Gel Treated HEM (SGT-HEM)	72.0	17.0	42.7	55.7	124	mg/L
Sulfate	204	127	138	93.0	107	mg/L
P121 Total Cyanide	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)	mg/L
Total Dissolved Solids (TDS)	2,880	1,660	2,370	1,300	1,030	mg/L
Total Kjeldahl Nitrogen (TKN)	354	120	194	110	125	mg/L
Total Organic Carbon (TOC)	250	172	104	79.4	96.9	mg/L
Total Phosphorus	71.6	18.2	18.2	16.8	16.6	mg/L
Total Suspended Solids (TSS)	1,560	1,470	907	960	860	mg/L

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NC - Not collected.
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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-4, Influent to Wastewater Treatment System	Day 1 65651	Day 2 65655	Day 3 65659	Day 4 65663	Day 5 65667	Unit
Total and Dissolved Metals						
Aluminum	6,850	8,180	4,670	3,330	3,330	ug/L
P114 Antimony	ND(5.97)	ND(5.97)	ND(5.97)	ND(5.97)	ND(5.97)	ug/L
P115 Arsenic	ND(2.32)	ND(2.32)	ND(2.32)	ND(2.32)	ND(2.32)	ug/L
Barium	76.0	74.0	44.0	29.0	42.7	ug/L
P117 Beryllium	ND(0.0540)	ND(0.0540)	ND(0.0540)	ND(0.0540)	ND(0.0540)	ug/L
Boron	467	287	496	292	322	ug/L
P118 Cadmium	1.00	1.00	2.00	0.650	ND(0.446)	ug/L
Calcium	56,200	39,900	57,100	32,200	35,300	ug/L
P119 Chromium	10.0	14.0	12.0	8.70	7.30	ug/L
Cobalt	ND(0.914)	ND(0.914)	ND(0.914)	ND(0.914)	ND(0.914)	ug/L
P120 Copper	1,330	1,580	924	755	1,280	ug/L
Iron	1,450	1,670	1,060	694	945	ug/L
P122 Lead	21.0	21.0	26.0	14.2	14.8	ug/L
Magnesium	105,000	59,800	102,000	45,800	41,200	ug/L
Manganese	108	81.0	88.0	56.4	67.4	ug/L
P123 Mercury	1.00	0.360	0.290	0.280	0.280	ug/L
Molybdenum	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ug/L
P124 Nickel	26.0	23.0	46.0	20.9	22.3	ug/L
P125 Selenium	50.0	33.0	44.0	26.0	18.4	ug/L
P126 Silver	3.00	2.00	3.00	ND(1.28)	ND(1.28)	ug/L
Sodium	792,000	446,000	612,000	331,000	281,000	ug/L
P127 Thallium	ND(0.00900)	ND(0.00900)	ND(0.00900)	0.0100	0.0100	ug/L
Tin	7.00	10.0	15.0	12.9	31.7	ug/L
Titanium	ND(0.253)	4.00	3.00	2.40	3.30	ug/L
Vanadium	15.0	11.0	21.0	6.10	5.10	ug/L
Yttrium	ND(0.222)	ND(0.222)	ND(0.222)	ND(0.222)	ND(0.222)	ug/L
P128 Zinc	2,350	1,880	1,090	902	950	ug/L
Aluminum, Dissolved	129	119	106	96.5	130	ug/L
P114 Antimony, Dissolved	ND(5.97)	ND(5.97)	ND(5.97)	ND(5.97)	ND(5.97)	ug/L
P115 Arsenic, Dissolved	ND(2.32)	ND(2.32)	ND(2.32)	ND(2.32)	ND(2.32)	ug/L
Barium, Dissolved	6.00	3.60	4.40	2.80	5.60	ug/L
P117 Beryllium, Dissolved	ND(0.0540)	ND(0.0540)	ND(0.0540)	ND(0.0540)	ND(0.0540)	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	SP-4, Influent to Wastewater Treatment System	Day 1 65651	Day 2 65655	Day 3 65659	Day 4 65663	Day 5 65667	Unit
Total and Dissolved Metals							
	Boron, Dissolved	442	289	369	ND(3.37)	ND(3.37)	ug/L
P118	Cadmium, Dissolved	ND(0.446)	ND(0.446)	ND(0.446)	ND(0.446)	ND(0.446)	ug/L
	Calcium, Dissolved	37,800	24,400	33,400	20,300	20,200	ug/L
P119	Chromium, Dissolved	ND(1.68)	ND(1.68)	ND(1.68)	ND(1.68)	ND(1.68)	ug/L
	Cobalt, Dissolved	7.90	ND(0.914)	8.50	8.60	7.00	ug/L
P120	Copper, Dissolved	25.2	39.5	31.7	47.3	79.8	ug/L
	Iron, Dissolved	ND(19.8)	ND(19.8)	ND(19.8)	269	115	ug/L
P122	Lead, Dissolved	ND(3.08)	ND(3.08)	ND(3.08)	ND(3.08)	ND(3.08)	ug/L
	Magnesium, Dissolved	91,500	51,900	71,600	37,000	29,700	ug/L
	Manganese, Dissolved	25.9	13.1	28.6	23.2	19.3	ug/L
P123	Mercury, Dissolved	ND(0.0170)	ND(0.0170)	0.0300	0.0700	0.0500	ug/L
	Molybdenum, Dissolved	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ug/L
P124	Nickel, Dissolved	11.3	11.4	22.8	20.0	13.1	ug/L
P125	Selenium, Dissolved	42.9	25.7	32.8	24.8	22.6	ug/L
P126	Silver, Dissolved	ND(1.28)	ND(1.28)	ND(1.28)	ND(1.28)	ND(1.28)	ug/L
	Sodium, Dissolved	821,000	451,000	471,000	310,000	269,000	ug/L
P127	Thallium, Dissolved	ND(0.00900)	ND(0.00900)	ND(0.00900)	ND(0.00900)	ND(0.00900)	ug/L
	Tin, Dissolved	ND(3.45)	ND(3.45)	ND(3.45)	ND(3.45)	ND(3.45)	ug/L
	Titanium, Dissolved	ND(0.253)	ND(0.253)	ND(0.253)	ND(10.0)	ND(10.0)	ug/L
	Vanadium, Dissolved	ND(0.679)	ND(0.679)	ND(0.679)	ND(0.679)	ND(0.679)	ug/L
	Yttrium, Dissolved	ND(0.222)	ND(0.222)	ND(0.222)	ND(0.222)	ND(0.222)	ug/L
P128	Zinc, Dissolved	83.4	119	91.6	104	102	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	SP-4, Influent to Wastewater Treatment System	Day 1 65651	Day 2 65655	Day 3 65659	Day 4 65663	Day 5 65667	Unit
Volatile and Semitvolatile Organics							
P011	1,1,1-Trichloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P015	1,1,2,2-Tetrachloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P014	1,1,2-Trichloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P013	1,1-Dichloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P029	1,1-Dichloroethene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P008	1,2,4-Trichlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P025	1,2-Dichlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P010	1,2-Dichloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P032	1,2-Dichloropropane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P026	1,3-Dichlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P027	1,4-Dichlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P042	2,2'-Oxybis(1-chloropropane)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P021	2,4,6-Trichlorophenol	ND(13.2)	ND(10.0)	ND(14.0)	ND(10.0)	ND(10.0)	ug/L
P031	2,4-Dichlorophenol	ND(13.2)	ND(10.0)	ND(14.0)	ND(10.0)	ND(10.0)	ug/L
P034	2,4-Dimethylphenol	ND(13.2)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P059	2,4-Dinitrophenol	ND(66.2)	ND(50.0)	ND(68.0)	ND(50.0)	ND(50.0)	ug/L
P035	2,4-Dinitrotoluene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P036	2,6-Dinitrotoluene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P019	2-Chloroethyl vinyl ether	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ug/L
P020	2-Chloronaphthalene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P024	2-Chlorophenol	ND(13.2)	ND(10.0)	ND(14.0)	ND(10.0)	ND(10.0)	ug/L
P057	2-Nitrophenol	ND(26.5)	ND(20.0)	ND(27.0)	ND(20.0)	ND(20.0)	ug/L
P028	3,3'-Dichlorobenzidine	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ug/L
	4,6-Dinitro-2-methylphenol	ND(26.5)	ND(20.0)	ND(27.0)	ND(20.0)	ND(20.0)	ug/L
	4-Bromophenyl phenyl ether	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P022	4-Chloro-3-methylphenol	ND(13.2)	ND(10.0)	ND(14.0)	ND(10.0)	ND(10.0)	ug/L
	4-Chlorophenyl phenyl ether	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P058	4-Nitrophenol	ND(66.2)	ND(50.0)	ND(68.0)	ND(50.0)	ND(50.0)	ug/L
P001	Acenaphthene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P077	Acenaphthylene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P078	Anthracene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P004	Benzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-4, Influent to Wastewater Treatment System	Day 1 65651	Day 2 65655	Day 3 65659	Day 4 65663	Day 5 65667	Unit
Volatile and Semitvolatile Organics						
P005 Benzidine	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ug/L
P072 Benzo(a)anthracene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P073 Benzo(a)pyrene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P074 Benzo(b)fluoranthene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Benzo(g,h,i)perylene	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ug/L
P075 Benzo(k)fluoranthene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P043 Bis(2-chloroethoxy)methane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Bis(2-Chloroethyl)ether	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P066 Bis(2-ethylhexyl) phthalate	29.0	23.7	58.1	26.6	22.2	ug/L
P048 Bromodichloromethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Bromoform	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P046 Bromomethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P067 Butyl benzyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Carbon tetrachloride	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P007 Chlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P016 Chloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P023 Chloroform	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P045 Chloromethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P076 Chrysene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
cis-1,3-Dichloropropene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Dibenz(a,h)anthracene	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ug/L
P051 Dibromochloromethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P070 Diethyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P071 Dimethyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P068 Di-n-butyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P069 Di-n-octyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P038 Ethylbenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P039 Fluoranthene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P080 Fluorene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P009 Hexachlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P052 Hexachlorobutadiene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P053 Hexachlorocyclopentadiene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-4, Influent to Wastewater Treatment System	Day 1 65651	Day 2 65655	Day 3 65659	Day 4 65663	Day 5 65667	Unit
Volatile and Semitvolatile Organics						
P012 Hexachloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P083 Indeno(1,2,3-cd)pyrene	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ug/L
P054 Isophorone	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P044 Methylene chloride	ND(10.0)	ND(10.0)	10.5	ND(10.0)	ND(10.0)	ug/L
P055 Naphthalene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P056 Nitrobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P061 N-Nitrosodimethylamine	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ug/L
N-Nitroso Di-n-propylamine	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ug/L
P062 N-Nitrosodiphenylamine	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ug/L
P064 Pentachlorophenol	ND(66.2)	ND(50.0)	ND(68.0)	ND(50.0)	ND(50.0)	ug/L
P081 Phenanthrene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P065 Phenol	244	127	140	111	122	ug/L
P084 Pyrene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P085 Tetrachloroethene	28.7	29.2	ND(10.0)	11.3	ND(10.0)	ug/L
P086 Toluene	ND(10.0)	ND(10.0)	10.7	ND(10.0)	ND(10.0)	ug/L
P030 trans-1,2-Dichloroethene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P033 trans-1,3-Dichloropropene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P087 Trichloroethene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Trichlorofluoromethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P088 Vinyl chloride	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-4, Influent to Wastewater Treatment System	Day 1 65651	Day 2 65655	Day 3 65659	Day 4 65663	Day 5 65667	Unit
Pesticides						
1,2-Dibromo-3-chloropropane	NC	NC	ND(0.200)	NC	NC	ug/L
4,4'-DDD	NC	NC	ND(0.200)	NC	NC	ug/L
4,4'-DDE	NC	NC	ND(0.100)	NC	NC	ug/L
4,4'-DDT	NC	NC	ND(0.100)	NC	NC	ug/L
Acephate	NC	NC	ND(20.0)	NC	NC	ug/L
Alachlor	NC	NC	ND(0.200)	NC	NC	ug/L
Aldrin	NC	NC	ND(0.200)	NC	NC	ug/L
alpha-BHC	NC	NC	ND(0.0500)	NC	NC	ug/L
alpha-Chlordane	NC	NC	ND(0.100)	NC	NC	ug/L
Atrazine	NC	NC	ND(10.0)	NC	NC	ug/L
Azinphos Ethyl	NC	NC	ND(2.00)	NC	NC	ug/L
Azinphos Methyl	NC	NC	ND(1.00)	NC	NC	ug/L
Benfluralin	NC	NC	ND(0.200)	NC	NC	ug/L
beta-BHC	NC	NC	ND(0.100)	NC	NC	ug/L
Bromacil	NC	NC	ND(1.00)	NC	NC	ug/L
Bromoxynil Octanoate	NC	NC	ND(0.500)	NC	NC	ug/L
Butachlor	NC	NC	ND(0.500)	NC	NC	ug/L
Captafol	NC	NC	ND(2.00)	NC	NC	ug/L
Captan	NC	NC	ND(1.00)	NC	NC	ug/L
Carbophenothion	NC	NC	ND(1.00)	NC	NC	ug/L
Chlorfenvinphos	NC	NC	ND(2.00)	NC	NC	ug/L
Chlorobenzilate	NC	NC	ND(1.00)	NC	NC	ug/L
Chloroneb	NC	NC	ND(1.00)	NC	NC	ug/L
Chloropropylate	NC	NC	ND(1.00)	NC	NC	ug/L
Chlorothalonil	NC	NC	ND(0.200)	NC	NC	ug/L
Chlorpyrifos	NC	NC	ND(2.00)	NC	NC	ug/L
cis-Permethrin	NC	NC	ND(2.00)	NC	NC	ug/L
Coumaphos	NC	NC	ND(5.00)	NC	NC	ug/L
Crotoxyphos	NC	NC	ND(5.00)	NC	NC	ug/L
Dacthal (DCPS)	NC	NC	ND(0.0500)	NC	NC	ug/L
DEF	NC	NC	ND(2.00)	NC	NC	ug/L
delta-BHC	NC	NC	ND(0.0500)	NC	NC	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-4, Influent to Wastewater Treatment System	Day 1 65651	Day 2 65655	Day 3 65659	Day 4 65663	Day 5 65667	Unit
Pesticides						
Demeton A	NC	NC	ND(4.00)	NC	NC	ug/L
Demeton B	NC	NC	ND(4.00)	NC	NC	ug/L
Diallate A	NC	NC	ND(2.00)	NC	NC	ug/L
Diallate B	NC	NC	ND(2.00)	NC	NC	ug/L
Diazinon	NC	NC	ND(2.00)	NC	NC	ug/L
Dichlofenthion	NC	NC	ND(2.00)	NC	NC	ug/L
Dichlone	NC	NC	ND(0.200)	NC	NC	ug/L
Dichlorvos	NC	NC	ND(5.00)	NC	NC	ug/L
Dicofol	NC	NC	ND(0.100)	NC	NC	ug/L
Dicrotophos	NC	NC	ND(2.00)	NC	NC	ug/L
Dieldrin	NC	NC	ND(0.0400)	NC	NC	ug/L
Dimethoate	NC	NC	ND(2.00)	NC	NC	ug/L
Dioxathion	NC	NC	ND(5.00)	NC	NC	ug/L
Disulfoton	NC	NC	ND(2.00)	NC	NC	ug/L
Endosulfan I	NC	NC	ND(0.100)	NC	NC	ug/L
Endosulfan II	NC	NC	ND(1.00)	NC	NC	ug/L
Endosulfan Sulfate	NC	NC	ND(0.100)	NC	NC	ug/L
Endrin	NC	NC	ND(0.200)	NC	NC	ug/L
Endrin Aldehyde	NC	NC	ND(0.100)	NC	NC	ug/L
Endrin Ketone	NC	NC	ND(0.100)	NC	NC	ug/L
EPN	NC	NC	ND(2.00)	NC	NC	ug/L
Ethalfluralin	NC	NC	ND(0.100)	NC	NC	ug/L
Ethion	NC	NC	ND(2.00)	NC	NC	ug/L
Ethoprop	NC	NC	ND(2.00)	NC	NC	ug/L
Etridiazole	NC	NC	ND(0.200)	NC	NC	ug/L
Famphur	NC	NC	ND(5.00)	NC	NC	ug/L
Fenarimol	NC	NC	ND(0.200)	NC	NC	ug/L
Fensulfothion	NC	NC	ND(5.00)	NC	NC	ug/L
Fenthion	NC	NC	ND(2.00)	NC	NC	ug/L
gamma-BHC	NC	NC	ND(0.0500)	NC	NC	ug/L
gamma-Chlordane	NC	NC	ND(0.0500)	NC	NC	ug/L
Heptachlor	NC	NC	ND(0.100)	NC	NC	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-4, Influent to Wastewater Treatment System	Day 1 65651	Day 2 65655	Day 3 65659	Day 4 65663	Day 5 65667	Unit
Pesticides						
Heptachlor Epoxide	NC	NC	ND(0.0500)	NC	NC	ug/L
Hexamethylphosphoramide	NC	NC	ND(2.00)	NC	NC	ug/L
Isodrin	NC	NC	ND(0.100)	NC	NC	ug/L
Isopropalin	NC	NC	ND(0.200)	NC	NC	ug/L
Kepone	NC	NC	ND(1.00)	NC	NC	ug/L
Leptophos	NC	NC	ND(2.00)	NC	NC	ug/L
Malathion	NC	NC	ND(2.00)	NC	NC	ug/L
Merphos A	NC	NC	ND(2.00)	NC	NC	ug/L
Merphos B	NC	NC	ND(2.00)	NC	NC	ug/L
Methamidophos	NC	NC	ND(20.0)	NC	NC	ug/L
Methoxychlor	NC	NC	ND(0.100)	NC	NC	ug/L
Methyl Parathion	NC	NC	ND(2.00)	NC	NC	ug/L
Methyl Trithion	NC	NC	ND(5.00)	NC	NC	ug/L
Metribuzin	NC	NC	ND(0.100)	NC	NC	ug/L
Mevinphos	NC	NC	ND(5.00)	NC	NC	ug/L
Mirex	NC	NC	ND(0.200)	NC	NC	ug/L
Monocrotophos	NC	NC	ND(20.0)	NC	NC	ug/L
Naled	NC	NC	ND(2.00)	NC	NC	ug/L
Nitrofen	NC	NC	ND(0.200)	NC	NC	ug/L
Norflurazon	NC	NC	ND(1.00)	NC	NC	ug/L
Parathion (ethyl)	NC	NC	ND(2.00)	NC	NC	ug/L
PCB 1016	NC	NC	ND(1.00)	NC	NC	ug/L
PCB 1221	NC	NC	ND(1.00)	NC	NC	ug/L
PCB 1232	NC	NC	ND(1.00)	NC	NC	ug/L
PCB 1242	NC	NC	ND(1.00)	NC	NC	ug/L
PCB 1248	NC	NC	ND(1.00)	NC	NC	ug/L
PCB 1254	NC	NC	ND(1.00)	NC	NC	ug/L
PCB 1260	NC	NC	ND(1.00)	NC	NC	ug/L
Pendamethalin	NC	NC	ND(0.500)	NC	NC	ug/L
Pentachloronitrobenzene (PCNB)	NC	NC	ND(0.0500)	NC	NC	ug/L
Perthane	NC	NC	ND(10.0)	NC	NC	ug/L
Phorate	NC	NC	ND(2.00)	NC	NC	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-4, Influent to Wastewater Treatment System	Day 1 65651	Day 2 65655	Day 3 65659	Day 4 65663	Day 5 65667	Unit
Pesticides						
Phosmet	NC	NC	ND(5.00)	NC	NC	ug/L
Phosphamidon E	NC	NC	ND(1.00)	NC	NC	ug/L
Phosphamidon Z	NC	NC	ND(1.00)	NC	NC	ug/L
Propachlor	NC	NC	ND(0.100)	NC	NC	ug/L
Propanil	NC	NC	ND(1.00)	NC	NC	ug/L
Propazine	NC	NC	ND(1.00)	NC	NC	ug/L
Ronnel	NC	NC	ND(2.00)	NC	NC	ug/L
Simazine	NC	NC	0.960	NC	NC	ug/L
Strobane	NC	NC	ND(5.00)	NC	NC	ug/L
Sulfotep	NC	NC	ND(2.00)	NC	NC	ug/L
Sulprofos	NC	NC	ND(2.00)	NC	NC	ug/L
Tepp	NC	NC	ND(2.00)	NC	NC	ug/L
Terbacil	NC	NC	ND(2.00)	NC	NC	ug/L
Terbufos	NC	NC	ND(2.00)	NC	NC	ug/L
Terbuthylazine	NC	NC	ND(5.00)	NC	NC	ug/L
Tetrachlorvinphos	NC	NC	ND(2.00)	NC	NC	ug/L
Tokuthion	NC	NC	ND(2.00)	NC	NC	ug/L
Toxaphene	NC	NC	ND(5.00)	NC	NC	ug/L
trans-Permethrin	NC	NC	ND(2.00)	NC	NC	ug/L
Triadimefon	NC	NC	ND(1.00)	NC	NC	ug/L
Trichlorfon	NC	NC	ND(5.00)	NC	NC	ug/L
Trichloronate	NC	NC	ND(2.00)	NC	NC	ug/L
Tricresylphosphate	NC	NC	ND(20.0)	NC	NC	ug/L
Trifluralin	NC	NC	ND(0.100)	NC	NC	ug/L
Trimethylphosphate	NC	NC	ND(2.00)	NC	NC	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-4, Influent to Wastewater Treatment System	Day 1 65651	Day 2 65655	Day 3 65659	Day 4 65663	Day 5 65667	Unit
Polychlorinated Biphenyls						
Decachloro biphenyl	ND(564)	NC	NC	NC	NC	pg/L
PCB-1	ND(225)	NC	NC	NC	NC	pg/L
PCB-2	42.5	NC	NC	NC	NC	pg/L
PCB-3	ND(225)	NC	NC	NC	NC	pg/L
PCB-4	ND(564)	NC	NC	NC	NC	pg/L
PCB-5	ND(56.4)	NC	NC	NC	NC	pg/L
PCB-6	156	NC	NC	NC	NC	pg/L
PCB-7	ND(56.4)	NC	NC	NC	NC	pg/L
PCB-8	807	NC	NC	NC	NC	pg/L
PCB-9	ND(56.4)	NC	NC	NC	NC	pg/L
PCB-10	ND(56.4)	NC	NC	NC	NC	pg/L
PCB-11	1,240	NC	NC	NC	NC	pg/L
PCB-12+PCB-13	ND(113)	NC	NC	NC	NC	pg/L
PCB-14	ND(113)	NC	NC	NC	NC	pg/L
PCB-15	ND(564)	NC	NC	NC	NC	pg/L
PCB-16	905	NC	NC	NC	NC	pg/L
PCB-17	849	NC	NC	NC	NC	pg/L
PCB-18+PCB-30	1,750	NC	NC	NC	NC	pg/L
PCB-19	176	NC	NC	NC	NC	pg/L
PCB-20+PCB-28	2,680	NC	NC	NC	NC	pg/L
PCB-21+PCB-33	1,640	NC	NC	NC	NC	pg/L
PCB-22	1,060	NC	NC	NC	NC	pg/L
PCB-23	ND(225)	NC	NC	NC	NC	pg/L
PCB-24	ND(225)	NC	NC	NC	NC	pg/L
PCB-25	ND(225)	NC	NC	NC	NC	pg/L
PCB-26+PCB-29	474	NC	NC	NC	NC	pg/L
PCB-27	ND(225)	NC	NC	NC	NC	pg/L
PCB-31	2,410	NC	NC	NC	NC	pg/L
PCB-32	505	NC	NC	NC	NC	pg/L
PCB-34	ND(225)	NC	NC	NC	NC	pg/L
PCB-35	235	NC	NC	NC	NC	pg/L
PCB-36	ND(225)	NC	NC	NC	NC	pg/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-4, Influent to Wastewater Treatment System	Day 1 65651	Day 2 65655	Day 3 65659	Day 4 65663	Day 5 65667	Unit
Polychlorinated Biphenyls						
PCB-37	773	NC	NC	NC	NC	pg/L
PCB-38	ND(225)	NC	NC	NC	NC	pg/L
PCB-39	ND(225)	NC	NC	NC	NC	pg/L
PCB-40+PCB-41+PCB-71	1,170	NC	NC	NC	NC	pg/L
PCB-42	537	NC	NC	NC	NC	pg/L
PCB-43	ND(225)	NC	NC	NC	NC	pg/L
PCB-44+PCB-47+PCB-65	2,820	NC	NC	NC	NC	pg/L
PCB-45+PCB-51	551	NC	NC	NC	NC	pg/L
PCB-46	ND(225)	NC	NC	NC	NC	pg/L
PCB-48	473	NC	NC	NC	NC	pg/L
PCB-49+PCB-69	1,020	NC	NC	NC	NC	pg/L
PCB-50+PCB-53	250	NC	NC	NC	NC	pg/L
PCB-52	1,610	NC	NC	NC	NC	pg/L
PCB-54	ND(564)	NC	NC	NC	NC	pg/L
PCB-55	ND(564)	NC	NC	NC	NC	pg/L
PCB-56	810	NC	NC	NC	NC	pg/L
PCB-57	ND(564)	NC	NC	NC	NC	pg/L
PCB-58	ND(564)	NC	NC	NC	NC	pg/L
PCB-59+PCB-62+PCB-75	ND(225)	NC	NC	NC	NC	pg/L
PCB-60	ND(564)	NC	NC	NC	NC	pg/L
PCB-61+PCB-70+PCB-74+PCB-76	2,990	NC	NC	NC	NC	pg/L
PCB-63	ND(564)	NC	NC	NC	NC	pg/L
PCB-64	786	NC	NC	NC	NC	pg/L
PCB-66	1,460	NC	NC	NC	NC	pg/L
PCB-67	ND(564)	NC	NC	NC	NC	pg/L
PCB-68	ND(564)	NC	NC	NC	NC	pg/L
PCB-72	ND(564)	NC	NC	NC	NC	pg/L
PCB-73	ND(564)	NC	NC	NC	NC	pg/L
PCB-77	ND(564)	NC	NC	NC	NC	pg/L
PCB-78	ND(564)	NC	NC	NC	NC	pg/L
PCB-79	ND(564)	NC	NC	NC	NC	pg/L
PCB-80	ND(564)	NC	NC	NC	NC	pg/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-4, Influent to Wastewater Treatment System	Day 1 65651	Day 2 65655	Day 3 65659	Day 4 65663	Day 5 65667	Unit
Polychlorinated Biphenyls						
PCB-81	ND(564)	NC	NC	NC	NC	pg/L
PCB-82	ND(564)	NC	NC	NC	NC	pg/L
PCB-83+PCB-99	768	NC	NC	NC	NC	pg/L
PCB-84	ND(564)	NC	NC	NC	NC	pg/L
PCB-85+PCB-116+PCB-117	ND(225)	NC	NC	NC	NC	pg/L
PCB-86+PCB-87+PCB-97+PCB-108+PCB-	660	NC	NC	NC	NC	pg/L
PCB-88+PCB-91	ND(564)	NC	NC	NC	NC	pg/L
PCB-89	ND(564)	NC	NC	NC	NC	pg/L
PCB-90+PCB-101+PCB-113	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-92	ND(564)	NC	NC	NC	NC	pg/L
PCB-93+PCB-95+PCB-98+PCB-100+PCB-	713	NC	NC	NC	NC	pg/L
PCB-94	ND(564)	NC	NC	NC	NC	pg/L
PCB-96	ND(564)	NC	NC	NC	NC	pg/L
PCB-103	ND(564)	NC	NC	NC	NC	pg/L
PCB-104	ND(564)	NC	NC	NC	NC	pg/L
PCB-105	406	NC	NC	NC	NC	pg/L
PCB-106	ND(564)	NC	NC	NC	NC	pg/L
PCB-107+PCB-124	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-109	ND(225)	NC	NC	NC	NC	pg/L
PCB-110+PCB-115	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-111	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-112	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-114	ND(564)	NC	NC	NC	NC	pg/L
PCB-118	984	NC	NC	NC	NC	pg/L
PCB-120	ND(564)	NC	NC	NC	NC	pg/L
PCB-121	ND(564)	NC	NC	NC	NC	pg/L
PCB-122	ND(564)	NC	NC	NC	NC	pg/L
PCB-123	ND(564)	NC	NC	NC	NC	pg/L
PCB-126	ND(564)	NC	NC	NC	NC	pg/L
PCB-127	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-128+PCB-166	ND(564)	NC	NC	NC	NC	pg/L
PCB-129+PCB-138+PCB-160+PCB-163	1,650	NC	NC	NC	NC	pg/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-4, Influent to Wastewater Treatment System	Day 1 65651	Day 2 65655	Day 3 65659	Day 4 65663	Day 5 65667	Unit
Polychlorinated Biphenyls						
PCB-130	ND(564)	NC	NC	NC	NC	pg/L
PCB-131	ND(564)	NC	NC	NC	NC	pg/L
PCB-132	ND(564)	NC	NC	NC	NC	pg/L
PCB-133	ND(564)	NC	NC	NC	NC	pg/L
PCB-134+PCB-143	ND(564)	NC	NC	NC	NC	pg/L
PCB-135+PCB-151+PCB-154	ND(564)	NC	NC	NC	NC	pg/L
PCB-136	ND(225)	NC	NC	NC	NC	pg/L
PCB-137	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-139+PCB-140	ND(564)	NC	NC	NC	NC	pg/L
PCB-141	ND(225)	NC	NC	NC	NC	pg/L
PCB-142	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-144	ND(564)	NC	NC	NC	NC	pg/L
PCB-145	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-146	ND(564)	NC	NC	NC	NC	pg/L
PCB-147+PCB-149	ND(564)	NC	NC	NC	NC	pg/L
PCB-148	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-150	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-152	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-153+PCB-168	1,740	NC	NC	NC	NC	pg/L
PCB-155	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-156+PCB-157	ND(564)	NC	NC	NC	NC	pg/L
PCB-158	ND(225)	NC	NC	NC	NC	pg/L
PCB-159	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-161	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-162	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-164	ND(564)	NC	NC	NC	NC	pg/L
PCB-165	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-167	ND(564)	NC	NC	NC	NC	pg/L
PCB-169	ND(564)	NC	NC	NC	NC	pg/L
PCB-170	ND(564)	NC	NC	NC	NC	pg/L
PCB-171+PCB-173	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-172	ND(1,130)	NC	NC	NC	NC	pg/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-4, Influent to Wastewater Treatment System	Day 1 65651	Day 2 65655	Day 3 65659	Day 4 65663	Day 5 65667	Unit
Polychlorinated Biphenyls						
PCB-174	ND(564)	NC	NC	NC	NC	pg/L
PCB-175	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-176	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-177	ND(564)	NC	NC	NC	NC	pg/L
PCB-178	ND(564)	NC	NC	NC	NC	pg/L
PCB-179	ND(564)	NC	NC	NC	NC	pg/L
PCB-180+PCB-193	986	NC	NC	NC	NC	pg/L
PCB-181	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-182	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-183+PCB-185	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-184	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-186	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-187	ND(564)	NC	NC	NC	NC	pg/L
PCB-188	ND(564)	NC	NC	NC	NC	pg/L
PCB-189	ND(564)	NC	NC	NC	NC	pg/L
PCB-190	ND(564)	NC	NC	NC	NC	pg/L
PCB-191	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-192	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-194	ND(564)	NC	NC	NC	NC	pg/L
PCB-195	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-196	ND(5,640)	NC	NC	NC	NC	pg/L
PCB-197+PCB-200	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-198+PCB-199	ND(564)	NC	NC	NC	NC	pg/L
PCB-201	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-202	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-203	ND(5,640)	NC	NC	NC	NC	pg/L
PCB-204	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-205	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-206	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-207	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-208	ND(1,130)	NC	NC	NC	NC	pg/L
PCB-209	ND(564)	NC	NC	NC	NC	pg/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-4, Influent to Wastewater Treatment System	Day 1 65651	Day 2 65655	Day 3 65659	Day 4 65663	Day 5 65667	Unit
Polychlorinated Biphenyls						
Total Dichloro Biphenyls	2,200	NC	NC	NC	NC	pg/L
Total Heptachloro Biphenyls	ND(1,130)	NC	NC	NC	NC	pg/L
Toal Hexachloro Biphenyls	3,390	NC	NC	NC	NC	pg/L
Total Monochloro Biphenyls	ND(225)	NC	NC	NC	NC	pg/L
Total Nonachloro Biphenyls	ND(1,130)	NC	NC	NC	NC	pg/L
Total Octachloro Biphenyls	ND(1,130)	NC	NC	NC	NC	pg/L
Total PCBs	37,100	NC	NC	NC	NC	pg/L
Total Pentachloro Biphenyls	3,530	NC	NC	NC	NC	pg/L
Total Tetrachloro Biphenyls	14,500	NC	NC	NC	NC	pg/L
Total Trichloro Biphenyls	13,500	NC	NC	NC	NC	pg/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-6, Effluent from Wastewater Treatment	Day 1 65691	Day 2 65695	Day 3 65699	Day 4 65703	Day 5 65707	Unit
Classical Pollutants						
Alkalinity	150	219	218	203	204	mg/L
Ammonia As Nitrogen (NH3-N)	27.9	41.1	46.0	38.2	42.3	mg/L
P121 Available Cyanide	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ND(2.00)	ug/L
Biochemical Oxygen Demand (BOD)	ND(2.00)	ND(2.00)	7.85	ND(2.00)	EXCLUDE	mg/L
Chemical Oxygen Demand (COD)	56.0	61.0	76.0	61.0	67.0	mg/L
Chloride	915	1,210	1,320	942	797	mg/L
Hardness	307	356	437	332	274	mg/L
Hexane Extractable Material (HEM)	ND(5.10)	ND(5.10)	ND(4.80)	ND(5.00)	ND(4.80)	mg/L
Nitrate/Nitrite (NO2 + NO3-N)	0.0500	0.230	ND(0.0500)	ND(0.0500)	ND(0.0500)	mg/L
Settleable residue	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)	EXCLUDE	mL/L
Silica Gel Treated HEM (SGT-HEM)	ND(5.10)	ND(5.10)	ND(4.80)	ND(5.00)	ND(4.80)	mg/L
Sulfate	124	166	182	128	112	mg/L
P121 Total Cyanide	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)	ND(0.00500)	mg/L
Total Dissolved Solids (TDS)	1,750	2,300	2,540	1,530	1,550	mg/L
Total Kjeldahl Nitrogen (TKN)	27.6	45.0	54.3	44.1	46.8	mg/L
Total Organic Carbon (TOC)	17.2	13.9	16.0	14.0	16.0	mg/L
Total Phosphorus	6.20	6.30	8.10	7.80	7.90	mg/L
Total Suspended Solids (TSS)	ND(5.00)	ND(5.00)	ND(5.00)	ND(5.00)	32.0	mg/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-6, Effluent from Wastewater Treatment	Day 1 65691	Day 2 65695	Day 3 65699	Day 4 65703	Day 5 65707	Unit
Total and Dissolved Metals						
Aluminum	28.0	62.0	38.0	ND(9.93)	ND(9.93)	ug/L
P114 Antimony	ND(5.97)	ND(5.97)	ND(5.97)	ND(5.97)	ND(5.97)	ug/L
P115 Arsenic	ND(2.32)	ND(2.32)	ND(2.32)	ND(2.32)	ND(2.32)	ug/L
Barium	6.00	6.00	6.00	4.50	4.40	ug/L
P117 Beryllium	ND(0.0540)	ND(0.0540)	ND(0.0540)	ND(0.0540)	ND(0.0540)	ug/L
Boron	306	348	400	353	333	ug/L
P118 Cadmium	ND(0.446)	ND(0.446)	ND(0.446)	ND(0.446)	ND(0.446)	ug/L
Calcium	28,600	31,700	39,500	31,600	28,800	ug/L
P119 Chromium	ND(1.68)	ND(1.68)	ND(1.68)	ND(1.68)	ND(1.68)	ug/L
Cobalt	ND(0.914)	1.00	ND(0.914)	ND(0.914)	ND(0.914)	ug/L
P120 Copper	15.0	19.0	15.0	15.5	27.7	ug/L
Iron	164	175	176	272	156	ug/L
P122 Lead	ND(3.08)	ND(3.08)	ND(3.08)	ND(3.08)	ND(3.08)	ug/L
Magnesium	57,300	67,200	82,100	61,500	49,100	ug/L
Manganese	19.0	19.0	23.0	18.8	17.2	ug/L
P123 Mercury	0.0200	0.0200	0.0200	0.0300	0.0400	ug/L
Molybdenum	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ug/L
P124 Nickel	12.0	12.0	20.0	18.7	11.9	ug/L
P125 Selenium	26.0	29.0	42.0	32.8	28.3	ug/L
P126 Silver	ND(1.28)	ND(1.28)	ND(1.28)	ND(1.28)	ND(1.28)	ug/L
Sodium	488,000	575,000	664,000	514,000	413,000	ug/L
P127 Thallium	ND(0.00900)	ND(0.00900)	ND(0.00900)	ND(0.00900)	ND(0.00900)	ug/L
Tin	ND(3.45)	ND(3.45)	ND(3.45)	ND(3.45)	ND(3.45)	ug/L
Titanium	ND(0.253)	ND(0.253)	ND(0.253)	ND(0.253)	ND(0.253)	ug/L
Vanadium	ND(0.679)	ND(0.679)	ND(0.679)	0.830	1.50	ug/L
Yttrium	ND(0.222)	ND(0.222)	ND(0.222)	ND(0.222)	ND(0.222)	ug/L
P128 Zinc	211	217	152	230	219	ug/L
Aluminum, Dissolved	ND(9.93)	ND(9.93)	ND(9.93)	53.6	53.7	ug/L
P114 Antimony, Dissolved	ND(5.97)	ND(5.97)	ND(5.97)	ND(5.97)	ND(5.97)	ug/L
P115 Arsenic, Dissolved	ND(2.32)	ND(2.32)	ND(2.32)	ND(2.32)	ND(2.32)	ug/L
Barium, Dissolved	6.00	6.30	5.80	4.50	4.50	ug/L
P117 Beryllium, Dissolved	ND(0.0540)	ND(0.0540)	ND(0.0540)	ND(0.0540)	ND(0.0540)	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-6, Effluent from Wastewater Treatment	Day 1 65691	Day 2 65695	Day 3 65699	Day 4 65703	Day 5 65707	Unit
Total and Dissolved Metals						
Boron, Dissolved	294	365	385	335	324	ug/L
P118 Cadmium, Dissolved	ND(0.446)	ND(0.446)	ND(0.446)	ND(0.446)	ND(0.446)	ug/L
Calcium, Dissolved	28,400	33,800	37,700	31,100	29,300	ug/L
P119 Chromium, Dissolved	ND(1.68)	ND(1.68)	ND(1.68)	ND(1.68)	ND(1.68)	ug/L
Cobalt, Dissolved	ND(0.914)	ND(0.914)	ND(0.914)	2.00	2.60	ug/L
P120 Copper, Dissolved	13.2	17.2	12.4	14.0	25.7	ug/L
Iron, Dissolved	ND(19.8)	ND(19.8)	ND(19.8)	148	140	ug/L
P122 Lead, Dissolved	ND(3.08)	ND(3.08)	ND(3.08)	ND(3.08)	ND(3.08)	ug/L
Magnesium, Dissolved	56,800	73,200	77,800	60,800	50,200	ug/L
Manganese, Dissolved	21.5	23.2	24.0	20.3	21.5	ug/L
P123 Mercury, Dissolved	ND(0.0170)	ND(0.0170)	ND(0.0170)	0.0300	0.0400	ug/L
Molybdenum, Dissolved	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	ug/L
P124 Nickel, Dissolved	12.4	11.7	19.4	13.7	12.9	ug/L
P125 Selenium, Dissolved	49.2	34.8	77.2	35.7	28.4	ug/L
P126 Silver, Dissolved	ND(1.28)	ND(1.28)	ND(1.28)	ND(1.28)	ND(1.28)	ug/L
Sodium, Dissolved	619,000	1,350,000	681,000	480,000	406,000	ug/L
P127 Thallium, Dissolved	ND(0.00900)	ND(0.00900)	ND(0.00900)	ND(0.00900)	ND(0.00900)	ug/L
Tin, Dissolved	ND(3.45)	ND(3.45)	ND(3.45)	ND(3.45)	ND(3.45)	ug/L
Titanium, Dissolved	ND(0.253)	ND(0.253)	ND(0.253)	ND(10.0)	ND(10.0)	ug/L
Vanadium, Dissolved	ND(0.679)	ND(0.679)	ND(0.679)	ND(0.679)	1.90	ug/L
Yttrium, Dissolved	ND(0.222)	ND(0.222)	ND(0.222)	ND(0.222)	ND(0.222)	ug/L
P128 Zinc, Dissolved	218	209	150	220	219	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-6, Effluent from Wastewater Treatment	Day 1 65691	Day 2 65695	Day 3 65699	Day 4 65703	Day 5 65707	Unit
Volatile and Semitvolatile Organics						
P011 1,1,1-Trichloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P015 1,1,2,2-Tetrachloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P014 1,1,2-Trichloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P013 1,1-Dichloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P029 1,1-Dichloroethene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P008 1,2,4-Trichlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P025 1,2-Dichlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P010 1,2-Dichloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P032 1,2-Dichloropropane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P026 1,3-Dichlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P027 1,4-Dichlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P042 2,2'-Oxybis(1-chloropropane)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P021 2,4,6-Trichlorophenol	ND(10.0)	ND(18.5)	ND(14.0)	ND(10.0)	ND(10.0)	ug/L
P031 2,4-Dichlorophenol	ND(10.0)	ND(18.5)	ND(14.0)	ND(10.0)	ND(10.0)	ug/L
P034 2,4-Dimethylphenol	ND(10.0)	ND(18.5)	ND(14.0)	ND(10.0)	ND(10.0)	ug/L
P059 2,4-Dinitrophenol	ND(50.0)	ND(92.6)	ND(69.9)	ND(50.0)	ND(50.0)	ug/L
P035 2,4-Dinitrotoluene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P036 2,6-Dinitrotoluene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P019 2-Chloroethyl vinyl ether	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ug/L
P020 2-Chloronaphthalene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P024 2-Chlorophenol	ND(10.0)	ND(18.5)	ND(14.0)	ND(10.0)	ND(10.0)	ug/L
P057 2-Nitrophenol	ND(20.0)	ND(37.0)	ND(28.0)	ND(20.0)	ND(20.0)	ug/L
P028 3,3'-Dichlorobenzidine	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ug/L
4,6-Dinitro-2-methylphenol	ND(20.0)	ND(37.0)	ND(28.0)	ND(20.0)	ND(20.0)	ug/L
4-Bromophenyl phenyl ether	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P022 4-Chloro-3-methylphenol	ND(10.0)	ND(18.5)	ND(14.0)	ND(10.0)	ND(10.0)	ug/L
4-Chlorophenyl phenyl ether	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P058 4-Nitrophenol	ND(50.0)	ND(92.6)	ND(69.9)	ND(50.0)	ND(50.0)	ug/L
P001 Acenaphthene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P077 Acenaphthylene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P078 Anthracene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P004 Benzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-6, Effluent from Wastewater Treatment	Day 1 65691	Day 2 65695	Day 3 65699	Day 4 65703	Day 5 65707	Unit
Volatile and Semitvolatile Organics						
P005 Benzidine	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ug/L
P072 Benzo(a)anthracene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P073 Benzo(a)pyrene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P074 Benzo(b)fluoranthene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Benzo(g,h,i)perylene	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ug/L
P075 Benzo(k)fluoranthene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P043 Bis(2-chloroethoxy)methane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Bis(2-Chloroethyl)ether	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P066 Bis(2-ethylhexyl) phthalate	ND(10.0)	ND(10.0)	18.9	ND(10.0)	ND(10.0)	ug/L
P048 Bromodichloromethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Bromoform	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P046 Bromomethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P067 Butyl benzyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Carbon tetrachloride	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P007 Chlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P016 Chloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P023 Chloroform	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P045 Chloromethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P076 Chrysene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
cis-1,3-Dichloropropene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Dibenz(a,h)anthracene	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ug/L
P051 Dibromochloromethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P070 Diethyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P071 Dimethyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P068 Di-n-butyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P069 Di-n-octyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P038 Ethylbenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P039 Fluoranthene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P080 Fluorene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P009 Hexachlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P052 Hexachlorobutadiene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P053 Hexachlorocyclopentadiene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-6, Effluent from Wastewater Treatment	Day 1 65691	Day 2 65695	Day 3 65699	Day 4 65703	Day 5 65707	Unit
Volatile and Semitvolatile Organics						
P012 Hexachloroethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P083 Indeno(1,2,3-cd)pyrene	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ug/L
P054 Isophorone	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P044 Methylene chloride	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P055 Naphthalene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P056 Nitrobenzene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P061 N-Nitrosodimethylamine	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ND(50.0)	ug/L
N-Nitroso Di-n-propylamine	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ug/L
P062 N-Nitrosodiphenylamine	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ND(20.0)	ug/L
P064 Pentachlorophenol	ND(50.0)	ND(92.6)	ND(69.9)	ND(50.0)	ND(50.0)	ug/L
P081 Phenanthrene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P065 Phenol	81.4	84.0	111	79.5	64.9	ug/L
P084 Pyrene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P085 Tetrachloroethene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P086 Toluene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P030 trans-1,2-Dichloroethene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P033 trans-1,3-Dichloropropene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P087 Trichloroethene	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
Trichlorofluoromethane	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L
P088 Vinyl chloride	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ND(10.0)	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-7, Duplicate of Effluent from Wastewater Treatment System	Day 1 65711	Day 2 65715	Day 3 65719	Day 4 65723	Day 5 65727	Unit
Classical Pollutants						
Alkalinity	NC	NC	211	179	203	mg/L
Ammonia As Nitrogen (NH3-N)	NC	NC	48.6	38.0	42.8	mg/L
P121 Available Cyanide	ND(2.00)	ND(2.00)	ND(2.00)	NC	NC	ug/L
Biochemical Oxygen Demand (BOD)	ND(2.00)	ND(2.00)	NC	NC	EXCLUDE	mg/L
Chemical Oxygen Demand (COD)	NC	NC	71.0	68.0	67.0	mg/L
Chloride	NC	NC	1,310	962	787	mg/L
Hardness	313	362	NC	325	NC	mg/L
Nitrate/Nitrite (NO2 + NO3-N)	NC	NC	ND(0.0500)	ND(0.0500)	ND(0.0500)	mg/L
Settleable residue	ND(0.100)	ND(0.100)	NC	NC	EXCLUDE	mL/L
Sulfate	NC	NC	178	130	108	mg/L
P121 Total Cyanide	ND(0.00500)	ND(0.00500)	ND(0.00500)	NC	NC	mg/L
Total Dissolved Solids (TDS)	NC	NC	2,650	1,850	1,600	mg/L
Total Kjeldahl Nitrogen (TKN)	NC	NC	52.0	43.5	46.0	mg/L
Total Organic Carbon (TOC)	NC	NC	16.9	15.3	14.4	mg/L
Total Phosphorus	NC	NC	8.10	7.10	8.60	mg/L
Total Suspended Solids (TSS)	NC	NC	ND(5.00)	ND(5.00)	ND(5.00)	mg/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-7, Duplicate of Effluent from Wastewater Treatment System	Day 1 65711	Day 2 65715	Day 3 65719	Day 4 65723	Day 5 65727	Unit
Total and Dissolved Metals						
Aluminum	ND(9.93)	35.0	NC	ND(9.93)	NC	ug/L
P114 Antimony	ND(5.97)	ND(5.97)	NC	ND(5.97)	NC	ug/L
P115 Arsenic	ND(2.32)	ND(2.32)	NC	ND(2.32)	NC	ug/L
Barium	6.00	6.00	NC	4.30	NC	ug/L
P117 Beryllium	ND(0.0540)	ND(0.0540)	NC	ND(0.0540)	NC	ug/L
Boron	327	343	NC	340	NC	ug/L
P118 Cadmium	ND(0.446)	ND(0.446)	NC	ND(0.446)	NC	ug/L
Calcium	28,900	32,000	NC	30,900	NC	ug/L
P119 Chromium	ND(1.68)	ND(1.68)	NC	ND(1.68)	NC	ug/L
Cobalt	ND(0.914)	ND(0.914)	NC	ND(0.914)	NC	ug/L
P120 Copper	15.4	18.0	NC	15.0	NC	ug/L
Iron	165	175	NC	143	NC	ug/L
P122 Lead	ND(3.08)	ND(3.08)	NC	ND(3.08)	NC	ug/L
Magnesium	58,500	68,400	NC	60,100	NC	ug/L
Manganese	19.4	19.0	NC	18.1	NC	ug/L
P123 Mercury	0.0300	0.0900	NC	0.0300	NC	ug/L
Molybdenum	ND(1.50)	ND(1.50)	NC	ND(1.50)	NC	ug/L
P124 Nickel	13.2	11.0	NC	12.4	NC	ug/L
P125 Selenium	15.8	26.0	NC	31.5	NC	ug/L
P126 Silver	ND(1.28)	ND(1.28)	NC	ND(1.28)	NC	ug/L
Sodium	512,000	591,000	NC	496,000	NC	ug/L
P127 Thallium	0.0100	ND(0.00900)	NC	ND(0.00900)	NC	ug/L
Tin	ND(3.45)	ND(3.45)	NC	ND(3.45)	NC	ug/L
Titanium	ND(0.253)	ND(0.253)	NC	ND(0.253)	NC	ug/L
Vanadium	1.10	ND(0.679)	NC	ND(0.679)	NC	ug/L
Yttrium	ND(0.222)	ND(0.222)	NC	ND(0.222)	NC	ug/L
P128 Zinc	233	211	NC	221	NC	ug/L
Aluminum, Dissolved	46.5	ND(9.93)	ND(9.93)	46.1	NC	ug/L
P114 Antimony, Dissolved	ND(5.97)	ND(5.97)	ND(5.97)	ND(5.97)	NC	ug/L
P115 Arsenic, Dissolved	ND(2.32)	ND(2.32)	ND(2.32)	ND(2.32)	NC	ug/L
Barium, Dissolved	6.10	6.70	5.80	4.60	NC	ug/L
P117 Beryllium, Dissolved	ND(0.0540)	ND(0.0540)	ND(0.0540)	ND(0.0540)	NC	ug/L

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NC - Not collected.
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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-7, Duplicate of Effluent from Wastewater Treatment System	Day 1 65711	Day 2 65715	Day 3 65719	Day 4 65723	Day 5 65727	Unit
Total and Dissolved Metals						
Boron, Dissolved	335	366	391	ND(3.37)	NC	ug/L
P118 Cadmium, Dissolved	ND(0.446)	ND(0.446)	ND(0.446)	ND(0.446)	NC	ug/L
Calcium, Dissolved	29,100	33,800	38,000	31,000	NC	ug/L
P119 Chromium, Dissolved	ND(1.68)	ND(1.68)	ND(1.68)	ND(1.68)	NC	ug/L
Cobalt, Dissolved	1.20	ND(0.914)	ND(0.914)	ND(0.914)	NC	ug/L
P120 Copper, Dissolved	14.5	17.6	13.7	14.8	NC	ug/L
Iron, Dissolved	163	ND(19.8)	ND(19.8)	168	NC	ug/L
P122 Lead, Dissolved	ND(3.08)	ND(3.08)	ND(3.08)	ND(3.08)	NC	ug/L
Magnesium, Dissolved	58,200	73,200	78,200	60,600	NC	ug/L
Manganese, Dissolved	20.6	24.3	22.2	18.5	NC	ug/L
P123 Mercury, Dissolved	0.0400	ND(0.0170)	ND(0.0170)	ND(0.0170)	NC	ug/L
Molybdenum, Dissolved	ND(1.50)	ND(1.50)	ND(1.50)	ND(1.50)	NC	ug/L
P124 Nickel, Dissolved	13.2	11.0	19.2	14.5	NC	ug/L
P125 Selenium, Dissolved	14.7	52.3	67.0	23.8	NC	ug/L
P126 Silver, Dissolved	ND(1.28)	ND(1.28)	ND(1.28)	ND(1.28)	NC	ug/L
Sodium, Dissolved	472,000	629,000	666,000	480,000	NC	ug/L
P127 Thallium, Dissolved	ND(0.00900)	ND(0.00900)	ND(0.00900)	ND(0.00900)	NC	ug/L
Tin, Dissolved	ND(3.45)	ND(3.45)	ND(3.45)	ND(3.45)	NC	ug/L
Titanium, Dissolved	ND(10.0)	ND(0.253)	ND(0.253)	ND(10.0)	NC	ug/L
Vanadium, Dissolved	1.50	ND(0.679)	1.10	0.710	NC	ug/L
Yttrium, Dissolved	ND(0.222)	ND(0.222)	ND(0.222)	ND(0.222)	NC	ug/L
P128 Zinc, Dissolved	227	208	151	224	NC	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-7, Duplicate of Effluent from Wastewater Treatment System	Day 1 65711	Day 2 65715	Day 3 65719	Day 4 65723	Day 5 65727	Unit
Volatile and Semitvolatile Organics						
P011 1,1,1-Trichloroethane	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P015 1,1,2,2-Tetrachloroethane	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P014 1,1,2-Trichloroethane	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P013 1,1-Dichloroethane	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P029 1,1-Dichloroethene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P008 1,2,4-Trichlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P025 1,2-Dichlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P010 1,2-Dichloroethane	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P032 1,2-Dichloropropane	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P026 1,3-Dichlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P027 1,4-Dichlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P042 2,2'-Oxybis(1-chloropropane)	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P021 2,4,6-Trichlorophenol	ND(16.4)	ND(10.0)	ND(12.5)	NC	NC	ug/L
P031 2,4-Dichlorophenol	ND(16.4)	ND(10.0)	ND(12.5)	NC	NC	ug/L
P034 2,4-Dimethylphenol	ND(16.4)	ND(10.0)	ND(12.5)	NC	NC	ug/L
P059 2,4-Dinitrophenol	ND(81.8)	ND(50.0)	ND(62.5)	NC	NC	ug/L
P035 2,4-Dinitrotoluene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P036 2,6-Dinitrotoluene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P019 2-Chloroethyl vinyl ether	ND(50.0)	EXCLUDE	EXCLUDE	NC	NC	ug/L
P020 2-Chloronaphthalene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P024 2-Chlorophenol	ND(16.4)	ND(10.0)	ND(12.5)	NC	NC	ug/L
P057 2-Nitrophenol	ND(32.7)	ND(20.0)	ND(25.0)	NC	NC	ug/L
P028 3,3'-Dichlorobenzidine	ND(50.0)	ND(50.0)	ND(50.0)	NC	NC	ug/L
4,6-Dinitro-2-methylphenol	ND(32.7)	ND(20.0)	ND(25.0)	NC	NC	ug/L
4-Bromophenyl phenyl ether	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P022 4-Chloro-3-methylphenol	ND(16.4)	ND(10.0)	ND(12.5)	NC	NC	ug/L
4-Chlorophenyl phenyl ether	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P058 4-Nitrophenol	ND(81.8)	ND(50.0)	ND(62.5)	NC	NC	ug/L
P001 Acenaphthene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P077 Acenaphthylene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P078 Anthracene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P004 Benzene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L

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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-7, Duplicate of Effluent from Wastewater Treatment System	Day 1 65711	Day 2 65715	Day 3 65719	Day 4 65723	Day 5 65727	Unit
Volatile and Semitvolatile Organics						
P005 Benzidine	ND(50.0)	ND(50.0)	ND(50.0)	NC	NC	ug/L
P072 Benzo(a)anthracene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P073 Benzo(a)pyrene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P074 Benzo(b)fluoranthene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
Benzo(g,h,i)perylene	ND(20.0)	ND(20.0)	ND(20.0)	NC	NC	ug/L
P075 Benzo(k)fluoranthene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P043 Bis(2-chloroethoxy)methane	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
Bis(2-Chloroethyl)ether	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P066 Bis(2-ethylhexyl) phthalate	ND(10.0)	16.7	ND(10.0)	NC	NC	ug/L
P048 Bromodichloromethane	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
Bromoform	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P046 Bromomethane	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P067 Butyl benzyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
Carbon tetrachloride	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P007 Chlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P016 Chloroethane	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P023 Chloroform	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P045 Chloromethane	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P076 Chrysene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
cis-1,3-Dichloropropene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
Dibenz(a,h)anthracene	ND(20.0)	ND(20.0)	ND(20.0)	NC	NC	ug/L
P051 Dibromochloromethane	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P070 Diethyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P071 Dimethyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P068 Di-n-butyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P069 Di-n-octyl phthalate	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P038 Ethylbenzene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P039 Fluoranthene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P080 Fluorene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P009 Hexachlorobenzene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P052 Hexachlorobutadiene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P053 Hexachlorocyclopentadiene	ND(10.0)	ND(10.0)	EXCLUDE	NC	NC	ug/L

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NC - Not collected.
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Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-7, Duplicate of Effluent from Wastewater Treatment System	Day 1 65711	Day 2 65715	Day 3 65719	Day 4 65723	Day 5 65727	Unit
Volatile and Semitvolatile Organics						
P012 Hexachloroethane	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P083 Indeno(1,2,3-cd)pyrene	ND(20.0)	ND(20.0)	ND(20.0)	NC	NC	ug/L
P054 Isophorone	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P044 Methylene chloride	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P055 Naphthalene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P056 Nitrobenzene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P061 N-Nitrosodimethylamine	ND(50.0)	ND(50.0)	ND(50.0)	NC	NC	ug/L
N-Nitroso Di-n-propylamine	ND(20.0)	ND(20.0)	ND(20.0)	NC	NC	ug/L
P062 N-Nitrosodiphenylamine	ND(20.0)	ND(20.0)	ND(20.0)	NC	NC	ug/L
P064 Pentachlorophenol	ND(81.8)	ND(50.0)	ND(62.5)	NC	NC	ug/L
P081 Phenanthrene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P065 Phenol	90.2	52.3	106	NC	NC	ug/L
P084 Pyrene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P085 Tetrachloroethene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P086 Toluene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P030 trans-1,2-Dichloroethene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P033 trans-1,3-Dichloropropene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P087 Trichloroethene	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
Trichlorofluoromethane	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L
P088 Vinyl chloride	ND(10.0)	ND(10.0)	ND(10.0)	NC	NC	ug/L

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NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	Day 1	Unit
SP-8, Galley Wastewater Overboard Discharge	**65731**	
Classical Pollutants		
Alkalinity	90.0	mg/L
Ammonia As Nitrogen (NH3-N)	2.72	mg/L
P121 Available Cyanide	12.9	ug/L
Biochemical Oxygen Demand (BOD)	976	mg/L
Chemical Oxygen Demand (COD)	1,270	mg/L
Chloride	83.0	mg/L
Hardness	36.7	mg/L
Hexane Extractable Material (HEM)	150	mg/L
Nitrate/Nitrite (NO2 + NO3-N)	ND(0.0500)	mg/L
Settleable residue	1.50	mL/L
Silica Gel Treated HEM (SGT-HEM)	ND(4.20)	mg/L
Sulfate	21.0	mg/L
P121 Total Cyanide	ND(0.00500)	mg/L
Total Dissolved Solids (TDS)	666	mg/L
Total Kjeldahl Nitrogen (TKN)	21.8	mg/L
Total Organic Carbon (TOC)	268	mg/L
Total Phosphorus	19.4	mg/L
Total Suspended Solids (TSS)	308	mg/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	Day 1	Unit
SP-8, Galley Wastewater Overboard Discharge	**65731**	
Total and Dissolved Metals		
Aluminum	735	ug/L
P114 Antimony	ND(5.97)	ug/L
P115 Arsenic	ND(2.32)	ug/L
Barium	11.0	ug/L
P117 Beryllium	ND(0.0540)	ug/L
Boron	ND(3.37)	ug/L
P118 Cadmium	ND(0.446)	ug/L
Calcium	9,310	ug/L
P119 Chromium	9.00	ug/L
Cobalt	1.00	ug/L
P120 Copper	259	ug/L
Iron	602	ug/L
P122 Lead	3.40	ug/L
Magnesium	3,270	ug/L
Manganese	17.0	ug/L
P123 Mercury	0.110	ug/L
Molybdenum	ND(1.50)	ug/L
P124 Nickel	14.0	ug/L
P125 Selenium	ND(0.572)	ug/L
P126 Silver	ND(1.28)	ug/L
Sodium	104,000	ug/L
P127 Thallium	ND(0.00900)	ug/L
Tin	10.0	ug/L
Titanium	2.00	ug/L
Vanadium	1.00	ug/L
Yttrium	ND(0.222)	ug/L
P128 Zinc	616	ug/L
Aluminum, Dissolved	456	ug/L
P114 Antimony, Dissolved	ND(5.97)	ug/L
P115 Arsenic, Dissolved	ND(2.32)	ug/L
Barium, Dissolved	6.10	ug/L
P117 Beryllium, Dissolved	ND(0.0540)	ug/L

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NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	Day 1	Unit
SP-8, Galley Wastewater Overboard Discharge	**65731**	
Total and Dissolved Metals		
Boron, Dissolved	ND(3.37)	ug/L
P118 Cadmium, Dissolved	ND(0.446)	ug/L
Calcium, Dissolved	8,330	ug/L
P119 Chromium, Dissolved	2.50	ug/L
Cobalt, Dissolved	ND(0.914)	ug/L
P120 Copper, Dissolved	25.4	ug/L
Iron, Dissolved	506	ug/L
P122 Lead, Dissolved	ND(3.08)	ug/L
Magnesium, Dissolved	2,680	ug/L
Manganese, Dissolved	23.0	ug/L
P123 Mercury, Dissolved	0.0200	ug/L
Molybdenum, Dissolved	ND(1.50)	ug/L
P124 Nickel, Dissolved	11.9	ug/L
P125 Selenium, Dissolved	1.60	ug/L
P126 Silver, Dissolved	ND(1.28)	ug/L
Sodium, Dissolved	103,000	ug/L
P127 Thallium, Dissolved	ND(0.00900)	ug/L
Tin, Dissolved	5.80	ug/L
Titanium, Dissolved	ND(0.253)	ug/L
Vanadium, Dissolved	ND(0.679)	ug/L
Yttrium, Dissolved	ND(0.222)	ug/L
P128 Zinc, Dissolved	465	ug/L

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NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

		Day 1	Unit
SP-8, Galley Wastewater Overboard Discharge		**65731**	
Volatile and Semitvolatile Organics			
P011	1,1,1-Trichloroethane	ND(10.0)	ug/L
P015	1,1,2,2-Tetrachloroethane	ND(10.0)	ug/L
P014	1,1,2-Trichloroethane	ND(10.0)	ug/L
P013	1,1-Dichloroethane	ND(10.0)	ug/L
P029	1,1-Dichloroethene	ND(10.0)	ug/L
P008	1,2,4-Trichlorobenzene	ND(10.0)	ug/L
P025	1,2-Dichlorobenzene	ND(10.0)	ug/L
P010	1,2-Dichloroethane	ND(10.0)	ug/L
P032	1,2-Dichloropropane	ND(10.0)	ug/L
P026	1,3-Dichlorobenzene	ND(10.0)	ug/L
P027	1,4-Dichlorobenzene	ND(10.0)	ug/L
P042	2,2'-Oxybis(1-chloropropane)	ND(10.0)	ug/L
P021	2,4,6-Trichlorophenol	ND(10.0)	ug/L
P031	2,4-Dichlorophenol	ND(10.0)	ug/L
P034	2,4-Dimethylphenol	ND(10.0)	ug/L
P059	2,4-Dinitrophenol	ND(50.0)	ug/L
P035	2,4-Dinitrotoluene	ND(10.0)	ug/L
P036	2,6-Dinitrotoluene	ND(10.0)	ug/L
P019	2-Chloroethyl vinyl ether	EXCLUDE	ug/L
P020	2-Chloronaphthalene	ND(10.0)	ug/L
P024	2-Chlorophenol	ND(10.0)	ug/L
P057	2-Nitrophenol	ND(20.0)	ug/L
P028	3,3'-Dichlorobenzidine	ND(50.0)	ug/L
	4,6-Dinitro-2-methylphenol	ND(20.0)	ug/L
	4-Bromophenyl phenyl ether	ND(10.0)	ug/L
P022	4-Chloro-3-methylphenol	ND(10.0)	ug/L
	4-Chlorophenyl phenyl ether	ND(10.0)	ug/L
P058	4-Nitrophenol	ND(50.0)	ug/L
P001	Acenaphthene	ND(10.0)	ug/L
P077	Acenaphthylene	ND(10.0)	ug/L
P078	Anthracene	ND(10.0)	ug/L
P004	Benzene	ND(10.0)	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	Day 1	Unit
SP-8, Galley Wastewater Overboard Discharge	**65731**	
Volatile and Semitvolatile Organics		
P005 Benzidine	ND(50.0)	ug/L
P072 Benzo(a)anthracene	ND(10.0)	ug/L
P073 Benzo(a)pyrene	ND(10.0)	ug/L
P074 Benzo(b)fluoranthene	ND(10.0)	ug/L
Benzo(g,h,i)perylene	ND(20.0)	ug/L
P075 Benzo(k)fluoranthene	ND(10.0)	ug/L
P043 Bis(2-chloroethoxy)methane	ND(10.0)	ug/L
Bis(2-Chloroethyl)ether	ND(10.0)	ug/L
P066 Bis(2-ethylhexyl) phthalate	110	ug/L
P048 Bromodichloromethane	ND(10.0)	ug/L
Bromoform	ND(10.0)	ug/L
P046 Bromomethane	ND(10.0)	ug/L
P067 Butyl benzyl phthalate	ND(10.0)	ug/L
Carbon tetrachloride	ND(10.0)	ug/L
P007 Chlorobenzene	ND(10.0)	ug/L
P016 Chloroethane	ND(10.0)	ug/L
P023 Chloroform	ND(10.0)	ug/L
P045 Chloromethane	ND(10.0)	ug/L
P076 Chrysene	ND(10.0)	ug/L
cis-1,3-Dichloropropene	ND(10.0)	ug/L
Dibenz(a,h)anthracene	ND(20.0)	ug/L
P051 Dibromochloromethane	ND(10.0)	ug/L
P070 Diethyl phthalate	ND(10.0)	ug/L
P071 Dimethyl phthalate	ND(10.0)	ug/L
P068 Di-n-butyl phthalate	ND(10.0)	ug/L
P069 Di-n-octyl phthalate	ND(10.0)	ug/L
P038 Ethylbenzene	ND(10.0)	ug/L
P039 Fluoranthene	ND(10.0)	ug/L
P080 Fluorene	ND(10.0)	ug/L
P009 Hexachlorobenzene	ND(10.0)	ug/L
P052 Hexachlorobutadiene	ND(10.0)	ug/L
P053 Hexachlorocyclopentadiene	ND(10.0)	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

		Day 1	Unit
SP-8, Galley Wastewater Overboard Discharge		**65731**	
Volatile and Semitvolatile Organics			
P012	Hexachloroethane	ND(10.0)	ug/L
P083	Indeno(1,2,3-cd)pyrene	ND(20.0)	ug/L
P054	Isophorone	ND(10.0)	ug/L
P044	Methylene chloride	ND(10.0)	ug/L
P055	Naphthalene	ND(10.0)	ug/L
P056	Nitrobenzene	ND(10.0)	ug/L
P061	N-Nitrosodimethylamine	ND(50.0)	ug/L
	N-Nitroso Di-n-propylamine	ND(20.0)	ug/L
P062	N-Nitrosodiphenylamine	ND(20.0)	ug/L
P064	Pentachlorophenol	ND(50.0)	ug/L
P081	Phenanthrene	ND(10.0)	ug/L
P065	Phenol	114	ug/L
P084	Pyrene	ND(10.0)	ug/L
P085	Tetrachloroethene	ND(10.0)	ug/L
P086	Toluene	ND(10.0)	ug/L
P030	trans-1,2-Dichloroethene	ND(10.0)	ug/L
P033	trans-1,3-Dichloropropene	ND(10.0)	ug/L
P087	Trichloroethene	ND(10.0)	ug/L
	Trichlorofluoromethane	ND(10.0)	ug/L
P088	Vinyl chloride	ND(10.0)	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	Day 1	Unit
SP-9, Laundry Wastewater Overboard	**65733**	
Classical Pollutants		
Alkalinity	90.0	mg/L
Ammonia As Nitrogen (NH3-N)	2.32	mg/L
P121 Available Cyanide	2.09	ug/L
Biochemical Oxygen Demand (BOD)	85.4	mg/L
Chemical Oxygen Demand (COD)	234	mg/L
Chloride	142	mg/L
Hardness	65.5	mg/L
Hexane Extractable Material (HEM)	19.5	mg/L
Nitrate/Nitrite (NO2 + NO3-N)	0.0600	mg/L
Settleable residue	6.00	mL/L
Silica Gel Treated HEM (SGT-HEM)	ND(4.00)	mg/L
Sulfate	14.0	mg/L
P121 Total Cyanide	ND(0.00500)	mg/L
Total Dissolved Solids (TDS)	394	mg/L
Total Kjeldahl Nitrogen (TKN)	7.50	mg/L
Total Organic Carbon (TOC)	38.8	mg/L
Total Phosphorus	5.80	mg/L
Total Suspended Solids (TSS)	77.0	mg/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	Day 1	Unit
SP-9, Laundry Wastewater Overboard	**65733**	
Total and Dissolved Metals		
Aluminum	321	ug/L
P114 Antimony	ND(5.97)	ug/L
P115 Arsenic	ND(2.32)	ug/L
Barium	15.0	ug/L
P117 Beryllium	ND(0.0540)	ug/L
Boron	ND(3.37)	ug/L
P118 Cadmium	ND(0.446)	ug/L
Calcium	11,400	ug/L
P119 Chromium	4.00	ug/L
Cobalt	1.00	ug/L
P120 Copper	217	ug/L
Iron	570	ug/L
P122 Lead	4.00	ug/L
Magnesium	8,990	ug/L
Manganese	8.00	ug/L
P123 Mercury	ND(0.0170)	ug/L
Molybdenum	ND(1.50)	ug/L
P124 Nickel	10.0	ug/L
P125 Selenium	ND(0.572)	ug/L
P126 Silver	3.00	ug/L
Sodium	98,500	ug/L
P127 Thallium	ND(0.00900)	ug/L
Tin	ND(3.45)	ug/L
Titanium	2.00	ug/L
Vanadium	ND(0.679)	ug/L
Yttrium	ND(0.222)	ug/L
P128 Zinc	295	ug/L
Aluminum, Dissolved	71.8	ug/L
P114 Antimony, Dissolved	ND(5.97)	ug/L
P115 Arsenic, Dissolved	ND(2.32)	ug/L
Barium, Dissolved	11.1	ug/L
P117 Beryllium, Dissolved	ND(0.0540)	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	Day 1	Unit
SP-9, Laundry Wastewater Overboard	**65733**	
Total and Dissolved Metals		
Boron, Dissolved	ND(3.37)	ug/L
P118 Cadmium, Dissolved	ND(0.446)	ug/L
Calcium, Dissolved	8,940	ug/L
P119 Chromium, Dissolved	ND(1.68)	ug/L
Cobalt, Dissolved	ND(0.914)	ug/L
P120 Copper, Dissolved	151	ug/L
Iron, Dissolved	ND(19.8)	ug/L
P122 Lead, Dissolved	ND(3.08)	ug/L
Magnesium, Dissolved	4,550	ug/L
Manganese, Dissolved	5.50	ug/L
P123 Mercury, Dissolved	ND(0.0170)	ug/L
Molybdenum, Dissolved	ND(1.50)	ug/L
P124 Nickel, Dissolved	5.50	ug/L
P125 Selenium, Dissolved	1.20	ug/L
P126 Silver, Dissolved	ND(1.28)	ug/L
Sodium, Dissolved	77,600	ug/L
P127 Thallium, Dissolved	ND(0.00900)	ug/L
Tin, Dissolved	ND(3.45)	ug/L
Titanium, Dissolved	ND(0.253)	ug/L
Vanadium, Dissolved	ND(0.679)	ug/L
Yttrium, Dissolved	ND(0.222)	ug/L
P128 Zinc, Dissolved	150	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

		Day 1	Unit
SP-9, Laundry Wastewater Overboard		**65733**	
Volatile and Semitvolatile Organics			
P011	1,1,1-Trichloroethane	ND(10.0)	ug/L
P015	1,1,2,2-Tetrachloroethane	ND(10.0)	ug/L
P014	1,1,2-Trichloroethane	ND(10.0)	ug/L
P013	1,1-Dichloroethane	ND(10.0)	ug/L
P029	1,1-Dichloroethene	ND(10.0)	ug/L
P008	1,2,4-Trichlorobenzene	ND(10.0)	ug/L
P025	1,2-Dichlorobenzene	ND(10.0)	ug/L
P010	1,2-Dichloroethane	ND(10.0)	ug/L
P032	1,2-Dichloropropane	ND(10.0)	ug/L
P026	1,3-Dichlorobenzene	ND(10.0)	ug/L
P027	1,4-Dichlorobenzene	ND(10.0)	ug/L
P042	2,2'-Oxybis(1-chloropropane)	ND(10.0)	ug/L
P021	2,4,6-Trichlorophenol	ND(10.0)	ug/L
P031	2,4-Dichlorophenol	ND(10.0)	ug/L
P034	2,4-Dimethylphenol	ND(10.0)	ug/L
P059	2,4-Dinitrophenol	ND(50.0)	ug/L
P035	2,4-Dinitrotoluene	ND(10.0)	ug/L
P036	2,6-Dinitrotoluene	ND(10.0)	ug/L
P019	2-Chloroethyl vinyl ether	ND(50.0)	ug/L
P020	2-Chloronaphthalene	ND(10.0)	ug/L
P024	2-Chlorophenol	ND(10.0)	ug/L
P057	2-Nitrophenol	ND(20.0)	ug/L
P028	3,3'-Dichlorobenzidine	ND(50.0)	ug/L
	4,6-Dinitro-2-methylphenol	ND(20.0)	ug/L
	4-Bromophenyl phenyl ether	ND(10.0)	ug/L
P022	4-Chloro-3-methylphenol	ND(10.0)	ug/L
	4-Chlorophenyl phenyl ether	ND(10.0)	ug/L
P058	4-Nitrophenol	ND(50.0)	ug/L
P001	Acenaphthene	ND(10.0)	ug/L
P077	Acenaphthylene	ND(10.0)	ug/L
P078	Anthracene	ND(10.0)	ug/L
P004	Benzene	ND(10.0)	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	Day 1	Unit
SP-9, Laundry Wastewater Overboard	**65733**	
Volatile and Semitvolatile Organics		
P005 Benzidine	ND(50.0)	ug/L
P072 Benzo(a)anthracene	ND(10.0)	ug/L
P073 Benzo(a)pyrene	ND(10.0)	ug/L
P074 Benzo(b)fluoranthene	ND(10.0)	ug/L
Benzo(g,h,i)perylene	ND(20.0)	ug/L
P075 Benzo(k)fluoranthene	ND(10.0)	ug/L
P043 Bis(2-chloroethoxy)methane	ND(10.0)	ug/L
Bis(2-Chloroethyl)ether	ND(10.0)	ug/L
P066 Bis(2-ethylhexyl) phthalate	28.2	ug/L
P048 Bromodichloromethane	ND(10.0)	ug/L
Bromoform	ND(10.0)	ug/L
P046 Bromomethane	ND(10.0)	ug/L
P067 Butyl benzyl phthalate	ND(10.0)	ug/L
Carbon tetrachloride	ND(10.0)	ug/L
P007 Chlorobenzene	ND(10.0)	ug/L
P016 Chloroethane	ND(10.0)	ug/L
P023 Chloroform	117	ug/L
P045 Chloromethane	ND(10.0)	ug/L
P076 Chrysene	ND(10.0)	ug/L
cis-1,3-Dichloropropene	ND(10.0)	ug/L
Dibenz(a,h)anthracene	ND(20.0)	ug/L
P051 Dibromochloromethane	ND(10.0)	ug/L
P070 Diethyl phthalate	ND(10.0)	ug/L
P071 Dimethyl phthalate	ND(10.0)	ug/L
P068 Di-n-butyl phthalate	ND(10.0)	ug/L
P069 Di-n-octyl phthalate	ND(10.0)	ug/L
P038 Ethylbenzene	ND(10.0)	ug/L
P039 Fluoranthene	ND(10.0)	ug/L
P080 Fluorene	ND(10.0)	ug/L
P009 Hexachlorobenzene	ND(10.0)	ug/L
P052 Hexachlorobutadiene	ND(10.0)	ug/L
P053 Hexachlorocyclopentadiene	ND(10.0)	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	Day 1	Unit
SP-9, Laundry Wastewater Overboard	**65733**	
Volatile and Semitvolatile Organics		
P012 Hexachloroethane	ND(10.0)	ug/L
P083 Indeno(1,2,3-cd)pyrene	ND(20.0)	ug/L
P054 Isophorone	ND(10.0)	ug/L
P044 Methylene chloride	ND(10.0)	ug/L
P055 Naphthalene	ND(10.0)	ug/L
P056 Nitrobenzene	ND(10.0)	ug/L
P061 N-Nitrosodimethylamine	ND(50.0)	ug/L
N-Nitroso Di-n-propylamine	ND(20.0)	ug/L
P062 N-Nitrosodiphenylamine	ND(20.0)	ug/L
P064 Pentachlorophenol	ND(50.0)	ug/L
P081 Phenanthrene	ND(10.0)	ug/L
P065 Phenol	94.9	ug/L
P084 Pyrene	ND(10.0)	ug/L
P085 Tetrachloroethene	ND(10.0)	ug/L
P086 Toluene	ND(10.0)	ug/L
P030 trans-1,2-Dichloroethene	ND(10.0)	ug/L
P033 trans-1,3-Dichloropropene	ND(10.0)	ug/L
P087 Trichloroethene	ND(10.0)	ug/L
Trichlorofluoromethane	ND(10.0)	ug/L
P088 Vinyl chloride	ND(10.0)	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	Day 1	Day 5	Unit
SP-10, Food Pulper Wastewater Overboard Discharge	**65737**	**65760**	
Classical Pollutants			
Alkalinity	ND(10.0)	NC	mg/L
Ammonia As Nitrogen (NH3-N)	35.0	NC	mg/L
P121 Available Cyanide	2.54	NC	ug/L
Biochemical Oxygen Demand (BOD)	2,160	NC	mg/L
Chemical Oxygen Demand (COD)	2,150	NC	mg/L
Chloride	973	NC	mg/L
Hardness	676	NC	mg/L
Hexane Extractable Material (HEM)	194	NC	mg/L
Nitrate/Nitrite (NO2 + NO3-N)	ND(0.0500)	NC	mg/L
Settleable residue	10.0	NC	mL/L
Silica Gel Treated HEM (SGT-HEM)	ND(3.90)	NC	mg/L
Sulfate	86.0	NC	mg/L
P121 Total Cyanide	ND(0.00500)	NC	mg/L
Total Dissolved Solids (TDS)	2,720	NC	mg/L
Total Kjeldahl Nitrogen (TKN)	98.7	NC	mg/L
Total Organic Carbon (TOC)	848	NC	mg/L
Total Phosphorus	17.7	NC	mg/L
Total Suspended Solids (TSS)	242	NC	mg/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

		Day 1	Day 5	Unit
SP-10, Food Pulper Wastewater Overboard Discharge		**65737**	**65760**	
Total and Dissolved Metals				
	Aluminum	404	NC	ug/L
P114	Antimony	6.00	NC	ug/L
P115	Arsenic	ND(2.32)	NC	ug/L
	Barium	14.6	NC	ug/L
P117	Beryllium	ND(0.0540)	NC	ug/L
	Boron	526	NC	ug/L
P118	Cadmium	1.10	NC	ug/L
	Calcium	61,100	NC	ug/L
P119	Chromium	23.5	NC	ug/L
	Cobalt	2.70	NC	ug/L
P120	Copper	118	NC	ug/L
	Iron	59,100	NC	ug/L
P122	Lead	ND(3.08)	NC	ug/L
	Magnesium	127,000	NC	ug/L
	Manganese	260	NC	ug/L
P123	Mercury	0.0900	NC	ug/L
	Molybdenum	ND(1.50)	NC	ug/L
P124	Nickel	19.7	NC	ug/L
P125	Selenium	49.3	NC	ug/L
P126	Silver	ND(1.28)	NC	ug/L
	Sodium	954,000	NC	ug/L
P127	Thallium	0.0100	NC	ug/L
	Tin	7.00	NC	ug/L
	Titanium	ND(0.253)	NC	ug/L
	Vanadium	ND(0.679)	NC	ug/L
	Yttrium	ND(0.222)	NC	ug/L
P128	Zinc	20,300	NC	ug/L
	Aluminum, Dissolved	86.1	NC	ug/L
P114	Antimony, Dissolved	ND(5.97)	NC	ug/L
P115	Arsenic, Dissolved	ND(2.32)	NC	ug/L
	Barium, Dissolved	15.2	NC	ug/L
P117	Beryllium, Dissolved	ND(0.0540)	NC	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

		Day 1	Day 5	Unit
SP-10, Food Pulper Wastewater Overboard Discharge		**65737**	**65760**	
Total and Dissolved Metals				
	Boron, Dissolved	ND(3.37)	NC	ug/L
P118	Cadmium, Dissolved	ND(0.446)	NC	ug/L
	Calcium, Dissolved	66,900	NC	ug/L
P119	Chromium, Dissolved	7.70	NC	ug/L
	Cobalt, Dissolved	4.10	NC	ug/L
P120	Copper, Dissolved	4.40	NC	ug/L
	Iron, Dissolved	15,300	NC	ug/L
P122	Lead, Dissolved	ND(3.08)	NC	ug/L
	Magnesium, Dissolved	30,300	NC	ug/L
	Manganese, Dissolved	114	NC	ug/L
P123	Mercury, Dissolved	0.0700	NC	ug/L
	Molybdenum, Dissolved	ND(1.50)	NC	ug/L
P124	Nickel, Dissolved	27.0	NC	ug/L
P125	Selenium, Dissolved	32.4	NC	ug/L
P126	Silver, Dissolved	ND(1.28)	NC	ug/L
	Sodium, Dissolved	240,000	NC	ug/L
P127	Thallium, Dissolved	ND(0.00900)	NC	ug/L
	Tin, Dissolved	5.10	NC	ug/L
	Titanium, Dissolved	ND(10.0)	NC	ug/L
	Vanadium, Dissolved	ND(0.679)	NC	ug/L
	Yttrium, Dissolved	ND(0.222)	NC	ug/L
P128	Zinc, Dissolved	139,000	NC	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

		Day 1	Day 5	Unit
SP-10, Food Pulper Wastewater Overboard Discharge		**65737**	**65760**	
Volatile and Semitvolatile Organics				
P011	1,1,1-Trichloroethane	ND(10.0)	NC	ug/L
P015	1,1,2,2-Tetrachloroethane	ND(10.0)	NC	ug/L
P014	1,1,2-Trichloroethane	ND(10.0)	NC	ug/L
P013	1,1-Dichloroethane	ND(10.0)	NC	ug/L
P029	1,1-Dichloroethene	ND(10.0)	NC	ug/L
P008	1,2,4-Trichlorobenzene	ND(10.0)	ND(10.0)	ug/L
P025	1,2-Dichlorobenzene	ND(10.0)	ND(10.0)	ug/L
P010	1,2-Dichloroethane	ND(10.0)	NC	ug/L
P032	1,2-Dichloropropane	ND(10.0)	NC	ug/L
P026	1,3-Dichlorobenzene	ND(10.0)	ND(10.0)	ug/L
P027	1,4-Dichlorobenzene	ND(10.0)	ND(10.0)	ug/L
P042	2,2'-Oxybis(1-chloropropane)	ND(10.0)	ND(10.0)	ug/L
P021	2,4,6-Trichlorophenol	ND(10.0)	ND(10.0)	ug/L
P031	2,4-Dichlorophenol	ND(10.0)	ND(10.0)	ug/L
P034	2,4-Dimethylphenol	ND(10.0)	ND(10.0)	ug/L
P059	2,4-Dinitrophenol	ND(50.0)	ND(50.0)	ug/L
P035	2,4-Dinitrotoluene	ND(10.0)	ND(10.0)	ug/L
P036	2,6-Dinitrotoluene	ND(10.0)	ND(10.0)	ug/L
P019	2-Chloroethyl vinyl ether	ND(50.0)	NC	ug/L
P020	2-Chloronaphthalene	ND(10.0)	ND(10.0)	ug/L
P024	2-Chlorophenol	ND(10.0)	ND(10.0)	ug/L
P057	2-Nitrophenol	ND(20.0)	ND(20.0)	ug/L
P028	3,3'-Dichlorobenzidine	ND(50.0)	ND(50.0)	ug/L
	4,6-Dinitro-2-methylphenol	ND(20.0)	ND(20.0)	ug/L
	4-Bromophenyl phenyl ether	ND(10.0)	ND(10.0)	ug/L
P022	4-Chloro-3-methylphenol	ND(10.0)	ND(10.0)	ug/L
	4-Chlorophenyl phenyl ether	ND(10.0)	ND(10.0)	ug/L
P058	4-Nitrophenol	ND(50.0)	ND(50.0)	ug/L
P001	Acenaphthene	ND(10.0)	ND(10.0)	ug/L
P077	Acenaphthylene	ND(10.0)	ND(10.0)	ug/L
P078	Anthracene	ND(10.0)	ND(10.0)	ug/L
P004	Benzene	ND(10.0)	NC	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	Day 1	Day 5	Unit
SP-10, Food Pulper Wastewater Overboard Discharge	**65737**	**65760**	
Volatile and Semitvolatile Organics			
P005 Benzidine	ND(50.0)	ND(50.0)	ug/L
P072 Benzo(a)anthracene	ND(10.0)	ND(10.0)	ug/L
P073 Benzo(a)pyrene	ND(10.0)	ND(10.0)	ug/L
P074 Benzo(b)fluoranthene	ND(10.0)	ND(10.0)	ug/L
Benzo(g,h,i)perylene	ND(20.0)	ND(20.0)	ug/L
P075 Benzo(k)fluoranthene	ND(10.0)	ND(10.0)	ug/L
P043 Bis(2-chloroethoxy)methane	ND(10.0)	ND(10.0)	ug/L
Bis(2-Chloroethyl)ether	ND(10.0)	ND(10.0)	ug/L
P066 Bis(2-ethylhexyl) phthalate	ND(10.0)	ND(10.0)	ug/L
P048 Bromodichloromethane	ND(10.0)	NC	ug/L
Bromoform	ND(10.0)	NC	ug/L
P046 Bromomethane	ND(10.0)	NC	ug/L
P067 Butyl benzyl phthalate	ND(10.0)	ND(10.0)	ug/L
Carbon tetrachloride	ND(10.0)	NC	ug/L
P007 Chlorobenzene	ND(10.0)	NC	ug/L
P016 Chloroethane	ND(10.0)	NC	ug/L
P023 Chloroform	ND(10.0)	NC	ug/L
P045 Chloromethane	ND(10.0)	NC	ug/L
P076 Chrysene	ND(10.0)	ND(10.0)	ug/L
cis-1,3-Dichloropropene	ND(10.0)	NC	ug/L
Dibenz(a,h)anthracene	ND(20.0)	ND(20.0)	ug/L
P051 Dibromochloromethane	ND(10.0)	NC	ug/L
P070 Diethyl phthalate	ND(10.0)	ND(10.0)	ug/L
P071 Dimethyl phthalate	ND(10.0)	ND(10.0)	ug/L
P068 Di-n-butyl phthalate	ND(10.0)	ND(10.0)	ug/L
P069 Di-n-octyl phthalate	ND(10.0)	ND(10.0)	ug/L
P038 Ethylbenzene	ND(10.0)	NC	ug/L
P039 Fluoranthene	ND(10.0)	ND(10.0)	ug/L
P080 Fluorene	ND(10.0)	ND(10.0)	ug/L
P009 Hexachlorobenzene	ND(10.0)	ND(10.0)	ug/L
P052 Hexachlorobutadiene	ND(10.0)	ND(10.0)	ug/L
P053 Hexachlorocyclopentadiene	ND(10.0)	ND(10.0)	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-10, Food Pulper Wastewater Overboard Discharge	Day 1 65737	Day 5 65760	Unit
Volatile and Semitvolatile Organics			
P012 Hexachloroethane	ND(10.0)	ND(10.0)	ug/L
P083 Indeno(1,2,3-cd)pyrene	ND(20.0)	ND(20.0)	ug/L
P054 Isophorone	ND(10.0)	ND(10.0)	ug/L
P044 Methylene chloride	ND(10.0)	NC	ug/L
P055 Naphthalene	ND(10.0)	ND(10.0)	ug/L
P056 Nitrobenzene	ND(10.0)	ND(10.0)	ug/L
P061 N-Nitrosodimethylamine	ND(50.0)	ND(50.0)	ug/L
N-Nitroso Di-n-propylamine	ND(20.0)	ND(20.0)	ug/L
P062 N-Nitrosodiphenylamine	ND(20.0)	ND(20.0)	ug/L
P064 Pentachlorophenol	ND(50.0)	ND(50.0)	ug/L
P081 Phenanthrene	ND(10.0)	ND(10.0)	ug/L
P065 Phenol	ND(10.0)	ND(10.0)	ug/L
P084 Pyrene	ND(10.0)	ND(10.0)	ug/L
P085 Tetrachloroethene	ND(10.0)	NC	ug/L
P086 Toluene	ND(10.0)	NC	ug/L
P030 trans-1,2-Dichloroethene	ND(10.0)	NC	ug/L
P033 trans-1,3-Dichloropropene	ND(10.0)	NC	ug/L
P087 Trichloroethene	ND(10.0)	NC	ug/L
Trichlorofluoromethane	ND(10.0)	NC	ug/L
P088 Vinyl chloride	ND(10.0)	NC	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

		Day 3	Unit
SP-11, Screening Solids		**65741**	
Classical Pollutants			
	Alkalinity	892	mg/L
	Ammonia As Nitrogen (NH3-N)	318	mg/L
P121	Available Cyanide	0.149	ug/L
	Chemical Oxygen Demand (COD)	124,000	mg/L
	Chloride	933	mg/L
	Nitrate/Nitrite (NO2 + NO3-N)	1.35	mg/L
	Sulfate	1,320	mg/L
P121	Total Cyanide	ND(1.00)	mg/L
	Total Kjeldahl Nitrogen (TKN)	1,740	mg/L
	Total Organic Carbon (TOC)	151,000	mg/L
	Total Phosphorus	930	mg/L
	Total Solids	33.8	%

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

		Day 3	Unit
SP-11, Screening Solids		**65741**	
Total and Dissolved Metals			
	Aluminum	266,000	ug/L
P114	Antimony	ND(201)	ug/L
P115	Arsenic	ND(198)	ug/L
	Barium	3,730	ug/L
P117	Beryllium	ND(11.7)	ug/L
	Boron	ND(457)	ug/L
P118	Cadmium	88.5	ug/L
	Calcium	1,750,000	ug/L
P119	Chromium	1,490	ug/L
	Cobalt	ND(23.3)	ug/L
P120	Copper	64,800	ug/L
	Iron	123,000	ug/L
P122	Lead	ND(106)	ug/L
	Magnesium	834,000	ug/L
	Manganese	6,380	ug/L
P123	Mercury	ND(1.86)	ug/L
	Molybdenum	ND(55.9)	ug/L
P124	Nickel	1,350	ug/L
P125	Selenium	513	ug/L
P126	Silver	350	ug/L
	Sodium	951,000	ug/L
P127	Thallium	ND(1.17)	ug/L
	Tin	ND(231)	ug/L
	Titanium	1,300	ug/L
	Vanadium	1,170	ug/L
	Yttrium	ND(11.7)	ug/L
P128	Zinc	90,400	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

		Day 3	Unit
SP-11, Screening Solids		**65741**	
Volatile and Semitvolatile Organics			
P011	1,1,1-Trichloroethane	ND(5.04)	ug/L
P015	1,1,2,2-Tetrachloroethane	ND(5.04)	ug/L
P014	1,1,2-Trichloroethane	ND(5.04)	ug/L
P013	1,1-Dichloroethane	ND(5.04)	ug/L
P029	1,1-Dichloroethene	ND(5.04)	ug/L
P008	1,2,4-Trichlorobenzene	ND(333)	ug/L
P025	1,2-Dichlorobenzene	ND(333)	ug/L
P010	1,2-Dichloroethane	ND(5.04)	ug/L
P032	1,2-Dichloropropane	ND(5.04)	ug/L
P026	1,3-Dichlorobenzene	ND(333)	ug/L
P027	1,4-Dichlorobenzene	ND(333)	ug/L
P042	2,2'-Oxybis(1-chloropropane)	ND(333)	ug/L
P021	2,4,6-Trichlorophenol	ND(333)	ug/L
P031	2,4-Dichlorophenol	ND(333)	ug/L
P034	2,4-Dimethylphenol	ND(333)	ug/L
P059	2,4-Dinitrophenol	ND(1,670)	ug/L
P035	2,4-Dinitrotoluene	ND(333)	ug/L
P036	2,6-Dinitrotoluene	ND(333)	ug/L
P019	2-Chloroethyl vinyl ether	EXCLUDE	ug/L
P020	2-Chloronaphthalene	ND(333)	ug/L
P024	2-Chlorophenol	ND(333)	ug/L
P057	2-Nitrophenol	ND(667)	ug/L
P028	3,3'-Dichlorobenzidine	ND(1,670)	ug/L
	4,6-Dinitro-2-methylphenol	ND(667)	ug/L
	4-Bromophenyl phenyl ether	ND(333)	ug/L
P022	4-Chloro-3-methylphenol	ND(333)	ug/L
	4-Chlorophenyl phenyl ether	ND(333)	ug/L
P058	4-Nitrophenol	ND(1,670)	ug/L
P001	Acenaphthene	ND(333)	ug/L
P077	Acenaphthylene	ND(333)	ug/L
P078	Anthracene	ND(333)	ug/L
P004	Benzene	ND(5.04)	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

		Day 3	Unit
SP-11, Screening Solids		**65741**	
Volatile and Semitvolatile Organics			
P005	Benzidine	ND(1,670)	ug/L
P072	Benzo(a)anthracene	ND(333)	ug/L
P073	Benzo(a)pyrene	ND(333)	ug/L
P074	Benzo(b)fluoranthene	ND(333)	ug/L
	Benzo(g,h,i)perylene	ND(667)	ug/L
P075	Benzo(k)fluoranthene	ND(333)	ug/L
P043	Bis(2-chloroethoxy)methane	ND(333)	ug/L
	Bis(2-Chloroethyl)ether	ND(333)	ug/L
P066	Bis(2-ethylhexyl) phthalate	18,500	ug/L
P048	Bromodichloromethane	ND(5.04)	ug/L
	Bromoform	ND(5.04)	ug/L
P046	Bromomethane	36.7	ug/L
P067	Butyl benzyl phthalate	ND(333)	ug/L
	Carbon tetrachloride	ND(5.04)	ug/L
P007	Chlorobenzene	ND(5.04)	ug/L
P016	Chloroethane	ND(5.04)	ug/L
P023	Chloroform	ND(5.04)	ug/L
P045	Chloromethane	ND(5.04)	ug/L
P076	Chrysene	ND(333)	ug/L
	cis-1,3-Dichloropropene	ND(5.04)	ug/L
	Dibenz(a,h)anthracene	ND(667)	ug/L
P051	Dibromochloromethane	ND(5.04)	ug/L
P070	Diethyl phthalate	ND(333)	ug/L
P071	Dimethyl phthalate	ND(333)	ug/L
P068	Di-n-butyl phthalate	ND(333)	ug/L
P069	Di-n-octyl phthalate	ND(333)	ug/L
P038	Ethylbenzene	ND(5.04)	ug/L
P039	Fluoranthene	ND(333)	ug/L
P080	Fluorene	ND(333)	ug/L
P009	Hexachlorobenzene	ND(333)	ug/L
P052	Hexachlorobutadiene	ND(333)	ug/L
P053	Hexachlorocyclopentadiene	ND(333)	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

		Day 3	Unit
SP-11, Screening Solids		**65741**	
Volatile and Semitvolatile Organics			
P012	Hexachloroethane	ND(333)	ug/L
P083	Indeno(1,2,3-cd)pyrene	ND(667)	ug/L
P054	Isophorone	ND(333)	ug/L
P044	Methylene chloride	ND(5.04)	ug/L
P055	Naphthalene	ND(333)	ug/L
P056	Nitrobenzene	ND(333)	ug/L
P061	N-Nitrosodimethylamine	ND(1,670)	ug/L
	N-Nitroso Di-n-propylamine	ND(667)	ug/L
P062	N-Nitrosodiphenylamine	ND(667)	ug/L
P064	Pentachlorophenol	ND(1,670)	ug/L
P081	Phenanthrene	ND(333)	ug/L
P065	Phenol	822	ug/L
P084	Pyrene	ND(333)	ug/L
P085	Tetrachloroethene	12.0	ug/L
P086	Toluene	68.5	ug/L
P030	trans-1,2-Dichloroethene	ND(5.04)	ug/L
P033	trans-1,3-Dichloropropene	ND(5.04)	ug/L
P087	Trichloroethene	ND(5.04)	ug/L
	Trichlorofluoromethane	ND(5.04)	ug/L
P088	Vinyl chloride	ND(5.04)	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

		Day 1	Unit
SP-12, Waste Biosludge (Desludge) Discharge		**65745**	
Classical Pollutants			
	Alkalinity	810	mg/L
	Ammonia As Nitrogen (NH3-N)	40.1	mg/L
P121	Available Cyanide	15.2	ug/L
	Chemical Oxygen Demand (COD)	14,400	mg/L
	Chloride	1,120	mg/L
	Hardness	1,640	mg/L
	Nitrate/Nitrite (NO2 + NO3-N)	0.240	mg/L
	Sulfate	163	mg/L
P121	Total Cyanide	0.0110	mg/L
	Total Dissolved Solids (TDS)	1,280	mg/L
	Total Kjeldahl Nitrogen (TKN)	561	mg/L
	Total Organic Carbon (TOC)	2,730	mg/L
	Total Phosphorus	173	mg/L
	Total Suspended Solids (TSS)	15,800	mg/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	Day 1	Unit
SP-12, Waste Biosludge (Desludge) Discharge	**65745**	
Total and Dissolved Metals		
Aluminum	120,000	ug/L
P114 Antimony	74.0	ug/L
P115 Arsenic	12.0	ug/L
Barium	1,790	ug/L
P117 Beryllium	1.00	ug/L
Boron	858	ug/L
P118 Cadmium	25.0	ug/L
Calcium	316,000	ug/L
P119 Chromium	282	ug/L
Cobalt	26.0	ug/L
P120 Copper	21,400	ug/L
Iron	20,500	ug/L
P122 Lead	319	ug/L
Magnesium	206,000	ug/L
Manganese	1,750	ug/L
P123 Mercury	ND(0.0170)	ug/L
Molybdenum	95.0	ug/L
P124 Nickel	310	ug/L
P125 Selenium	69.0	ug/L
P126 Silver	52.0	ug/L
Sodium	697,000	ug/L
P127 Thallium	ND(0.00900)	ug/L
Tin	77.0	ug/L
Titanium	5.00	ug/L
Vanadium	272	ug/L
Yttrium	6.00	ug/L
P128 Zinc	31,000	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

		Day 1	Unit
SP-12, Waste Biosludge (Desludge) Discharge		**65745**	
Volatile and Semitvolatile Organics			
P011	1,1,1-Trichloroethane	ND(10.0)	ug/L
P015	1,1,2,2-Tetrachloroethane	ND(10.0)	ug/L
P014	1,1,2-Trichloroethane	ND(10.0)	ug/L
P013	1,1-Dichloroethane	ND(10.0)	ug/L
P029	1,1-Dichloroethene	ND(10.0)	ug/L
P010	1,2-Dichloroethane	ND(10.0)	ug/L
P032	1,2-Dichloropropane	ND(10.0)	ug/L
P019	2-Chloroethyl vinyl ether	ND(50.0)	ug/L
P004	Benzene	ND(10.0)	ug/L
P048	Bromodichloromethane	ND(10.0)	ug/L
	Bromoform	ND(10.0)	ug/L
P046	Bromomethane	ND(10.0)	ug/L
	Carbon tetrachloride	ND(10.0)	ug/L
P007	Chlorobenzene	ND(10.0)	ug/L
P016	Chloroethane	ND(10.0)	ug/L
P023	Chloroform	ND(10.0)	ug/L
P045	Chloromethane	ND(10.0)	ug/L
	cis-1,3-Dichloropropene	ND(10.0)	ug/L
P051	Dibromochloromethane	ND(10.0)	ug/L
P038	Ethylbenzene	ND(10.0)	ug/L
P044	Methylene chloride	ND(10.0)	ug/L
P085	Tetrachloroethene	14.8	ug/L
P086	Toluene	ND(10.0)	ug/L
P030	trans-1,2-Dichloroethene	ND(10.0)	ug/L
P033	trans-1,3-Dichloropropene	ND(10.0)	ug/L
P087	Trichloroethene	ND(10.0)	ug/L
	Trichlorofluoromethane	ND(10.0)	ug/L
P088	Vinyl chloride	ND(10.0)	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

		Day 3	Unit
SP-13, Incinerator Ash		**65749**	
Total and Dissolved Metals			
	Aluminum	67,100	mg/kg
P114	Antimony	7.50	mg/kg
P115	Arsenic	1.40	mg/kg
	Barium	381	mg/kg
P117	Beryllium	0.510	mg/kg
	Boron	107	mg/kg
P118	Cadmium	0.500	mg/kg
	Calcium	257,000	mg/kg
P119	Chromium	87.1	mg/kg
	Cobalt	8.90	mg/kg
P120	Copper	1,290	mg/kg
	Iron	11,500	mg/kg
P122	Lead	18.9	mg/kg
	Magnesium	10,100	mg/kg
	Manganese	542	mg/kg
P123	Mercury	ND(0.00400)	mg/kg
	Molybdenum	10.1	mg/kg
P124	Nickel	37.1	mg/kg
P125	Selenium	ND(0.0291)	mg/kg
P126	Silver	9.70	mg/kg
	Sodium	14,300	mg/kg
P127	Thallium	ND(0.00250)	mg/kg
	Tin	58.4	mg/kg
	Titanium	1,890	mg/kg
	Vanadium	29.9	mg/kg
	Yttrium	3.40	mg/kg
P128	Zinc	1,470	mg/kg

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

		Day 3	Unit
SP-13, Incinerator Ash		**65749**	
Volatile and Semitvolatile Organics			
P008	1,2,4-Trichlorobenzene	ND(346)	ug/kg
P025	1,2-Dichlorobenzene	ND(346)	ug/kg
P026	1,3-Dichlorobenzene	ND(346)	ug/kg
P027	1,4-Dichlorobenzene	ND(346)	ug/kg
P042	2,2'-Oxybis(1-chloropropane)	ND(346)	ug/kg
P021	2,4,6-Trichlorophenol	ND(346)	ug/kg
P031	2,4-Dichlorophenol	ND(346)	ug/kg
P034	2,4-Dimethylphenol	ND(346)	ug/kg
P059	2,4-Dinitrophenol	ND(1,730)	ug/kg
P035	2,4-Dinitrotoluene	ND(346)	ug/kg
P036	2,6-Dinitrotoluene	ND(346)	ug/kg
P020	2-Chloronaphthalene	ND(346)	ug/kg
P024	2-Chlorophenol	ND(346)	ug/kg
P057	2-Nitrophenol	ND(692)	ug/kg
P028	3,3'-Dichlorobenzidine	ND(1,730)	ug/kg
	4,6-Dinitro-2-methylphenol	ND(692)	ug/kg
	4-Bromophenyl phenyl ether	ND(346)	ug/kg
P022	4-Chloro-3-methylphenol	ND(346)	ug/kg
	4-Chlorophenyl phenyl ether	ND(346)	ug/kg
P058	4-Nitrophenol	ND(1,730)	ug/kg
P001	Acenaphthene	ND(346)	ug/kg
P077	Acenaphthylene	ND(346)	ug/kg
P078	Anthracene	ND(346)	ug/kg
P005	Benzidine	EXCLUDE	ug/L
P072	Benzo(a)anthracene	ND(346)	ug/kg
P073	Benzo(a)pyrene	ND(346)	ug/kg
P074	Benzo(b)fluoranthene	ND(346)	ug/kg
	Benzo(g,h,i)perylene	ND(692)	ug/kg
P075	Benzo(k)fluoranthene	ND(346)	ug/kg
P043	Bis(2-chloroethoxy)methane	ND(346)	ug/kg
	Bis(2-Chloroethyl)ether	ND(346)	ug/kg
P066	Bis(2-ethylhexyl) phthalate	17,600	ug/kg

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

		Day 3	Unit
SP-13, Incinerator Ash		**65749**	
Volatile and Semitvolatile Organics			
P067	Butyl benzyl phthalate	ND(346)	ug/kg
P076	Chrysene	ND(346)	ug/kg
	Dibenz(a,h)anthracene	ND(692)	ug/kg
P070	Diethyl phthalate	ND(346)	ug/kg
P071	Dimethyl phthalate	ND(346)	ug/kg
P068	Di-n-butyl phthalate	ND(346)	ug/kg
P069	Di-n-octyl phthalate	ND(346)	ug/kg
P039	Fluoranthene	ND(346)	ug/kg
P080	Fluorene	ND(346)	ug/kg
P009	Hexachlorobenzene	ND(346)	ug/kg
P052	Hexachlorobutadiene	ND(346)	ug/kg
P053	Hexachlorocyclopentadiene	ND(346)	ug/kg
P012	Hexachloroethane	ND(346)	ug/kg
P083	Indeno(1,2,3-cd)pyrene	ND(692)	ug/kg
P054	Isophorone	ND(346)	ug/kg
P055	Naphthalene	ND(346)	ug/kg
P056	Nitrobenzene	ND(346)	ug/kg
P061	N-Nitrosodimethylamine	ND(1,730)	ug/kg
	N-Nitroso Di-n-propylamine	ND(692)	ug/kg
P062	N-Nitrosodiphenylamine	ND(692)	ug/kg
P064	Pentachlorophenol	ND(1,730)	ug/kg
P081	Phenanthrene	ND(346)	ug/kg
P065	Phenol	976	ug/kg
P084	Pyrene	ND(346)	ug/kg

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	Day 3	Unit
SP-13, Incinerator Ash	**65749**	
Dioxins and Furans		
1,2,3,4,6,7,8-HpCDD	92.9	pg/g
1,2,3,4,6,7,8-HpCDF	292	pg/g
1,2,3,4,7,8,9-HpCDF	31.6	pg/g
1,2,3,4,7,8-HxCDD	12.4	pg/g
1,2,3,4,7,8-HxCDF	92.5	pg/g
1,2,3,6,7,8-HxCDD	22.4	pg/g
1,2,3,6,7,8-HxCDF	104	pg/g
1,2,3,7,8,9-HxCDD	41.0	pg/g
1,2,3,7,8,9-HxCDF	7.30	pg/g
1,2,3,7,8-PeCDD	20.9	pg/g
1,2,3,7,8-PeCDF	108	pg/g
2,3,4,6,7,8-HxCDF	118	pg/g
2,3,4,7,8-PeCDF	129	pg/g
2,3,7,8-TCDD	ND(2.18)	pg/g
2,3,7,8-TCDF	136	pg/g
Octachlorodibenzo-p-dioxin	101	pg/g
Octachlorodibenzofuran	76.1	pg/g

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	Day 2	Unit
SP-14, Source Water	**65753**	
Classical Pollutants		
Ammonia As Nitrogen (NH3-N)	0.0350	mg/L
P121 Available Cyanide	ND(2.00)	ug/L
Biochemical Oxygen Demand (BOD)	ND(2.00)	mg/L
Chemical Oxygen Demand (COD)	ND(10.0)	mg/L
Hardness	16.9	mg/L
Nitrate/Nitrite (NO2 + NO3-N)	ND(0.0500)	mg/L
Settleable residue	ND(0.100)	mL/L
P121 Total Cyanide	ND(0.00500)	mg/L
Total Kjeldahl Nitrogen (TKN)	0.300	mg/L
Total Organic Carbon (TOC)	ND(1.00)	mg/L
Total Phosphorus	ND(0.0100)	mg/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	Day 2	Unit
SP-14, Source Water	**65753**	
Total and Dissolved Metals		
Aluminum	ND(9.93)	ug/L
P114 Antimony	ND(5.97)	ug/L
P115 Arsenic	ND(2.32)	ug/L
Barium	ND(0.0970)	ug/L
P117 Beryllium	ND(0.0540)	ug/L
Boron	ND(3.37)	ug/L
P118 Cadmium	ND(0.446)	ug/L
Calcium	6,470	ug/L
P119 Chromium	ND(1.68)	ug/L
Cobalt	ND(0.914)	ug/L
P120 Copper	412	ug/L
Iron	ND(19.8)	ug/L
P122 Lead	ND(3.08)	ug/L
Magnesium	191	ug/L
Manganese	ND(0.157)	ug/L
P123 Mercury	0.100	ug/L
Molybdenum	ND(1.50)	ug/L
P124 Nickel	ND(2.66)	ug/L
P125 Selenium	0.970	ug/L
P126 Silver	ND(1.28)	ug/L
Sodium	2,110	ug/L
P127 Thallium	ND(0.00900)	ug/L
Tin	ND(3.45)	ug/L
Titanium	ND(0.253)	ug/L
Vanadium	ND(0.679)	ug/L
Yttrium	ND(0.222)	ug/L
P128 Zinc	23.0	ug/L
Aluminum, Dissolved	ND(9.93)	ug/L
P114 Antimony, Dissolved	ND(5.97)	ug/L
P115 Arsenic, Dissolved	ND(2.32)	ug/L
Barium, Dissolved	ND(0.0970)	ug/L
P117 Beryllium, Dissolved	ND(0.0540)	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	Day 2	Unit
SP-14, Source Water	**65753**	
Total and Dissolved Metals		
Boron, Dissolved	ND(3.37)	ug/L
P118 Cadmium, Dissolved	ND(0.446)	ug/L
Calcium, Dissolved	6,450	ug/L
P119 Chromium, Dissolved	ND(1.68)	ug/L
Cobalt, Dissolved	1.20	ug/L
P120 Copper, Dissolved	479	ug/L
Iron, Dissolved	27.9	ug/L
P122 Lead, Dissolved	ND(3.08)	ug/L
Magnesium, Dissolved	197	ug/L
Manganese, Dissolved	2.40	ug/L
P123 Mercury, Dissolved	0.0800	ug/L
Molybdenum, Dissolved	ND(1.50)	ug/L
P124 Nickel, Dissolved	2.80	ug/L
P125 Selenium, Dissolved	ND(0.572)	ug/L
P126 Silver, Dissolved	ND(1.28)	ug/L
Sodium, Dissolved	2,100	ug/L
P127 Thallium, Dissolved	ND(0.00900)	ug/L
Tin, Dissolved	ND(3.45)	ug/L
Titanium, Dissolved	ND(10.0)	ug/L
Vanadium, Dissolved	ND(0.679)	ug/L
Yttrium, Dissolved	2.00	ug/L
P128 Zinc, Dissolved	33.0	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

		Day 2	Unit
SP-14, Source Water		**65753**	
Volatile and Semitvolatile Organics			
P011	1,1,1-Trichloroethane	ND(10.0)	ug/L
P015	1,1,2,2-Tetrachloroethane	ND(10.0)	ug/L
P014	1,1,2-Trichloroethane	ND(10.0)	ug/L
P013	1,1-Dichloroethane	ND(10.0)	ug/L
P029	1,1-Dichloroethene	ND(10.0)	ug/L
P008	1,2,4-Trichlorobenzene	ND(10.0)	ug/L
P025	1,2-Dichlorobenzene	ND(10.0)	ug/L
P010	1,2-Dichloroethane	ND(10.0)	ug/L
P032	1,2-Dichloropropane	ND(10.0)	ug/L
P026	1,3-Dichlorobenzene	ND(10.0)	ug/L
P027	1,4-Dichlorobenzene	ND(10.0)	ug/L
P042	2,2'-Oxybis(1-chloropropane)	ND(10.0)	ug/L
P021	2,4,6-Trichlorophenol	ND(10.0)	ug/L
P031	2,4-Dichlorophenol	ND(10.0)	ug/L
P034	2,4-Dimethylphenol	ND(10.0)	ug/L
P059	2,4-Dinitrophenol	ND(50.0)	ug/L
P035	2,4-Dinitrotoluene	ND(10.0)	ug/L
P036	2,6-Dinitrotoluene	ND(10.0)	ug/L
P019	2-Chloroethyl vinyl ether	ND(50.0)	ug/L
P020	2-Chloronaphthalene	ND(10.0)	ug/L
P024	2-Chlorophenol	ND(10.0)	ug/L
P057	2-Nitrophenol	ND(20.0)	ug/L
P028	3,3'-Dichlorobenzidine	ND(50.0)	ug/L
	4,6-Dinitro-2-methylphenol	ND(20.0)	ug/L
	4-Bromophenyl phenyl ether	ND(10.0)	ug/L
P022	4-Chloro-3-methylphenol	ND(10.0)	ug/L
	4-Chlorophenyl phenyl ether	ND(10.0)	ug/L
P058	4-Nitrophenol	ND(50.0)	ug/L
P001	Acenaphthene	ND(10.0)	ug/L
P077	Acenaphthylene	ND(10.0)	ug/L
P078	Anthracene	ND(10.0)	ug/L
P004	Benzene	ND(10.0)	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	Day 2	Unit
SP-14, Source Water	**65753**	
Volatile and Semitvolatile Organics		
P005 Benzidine	ND(50.0)	ug/L
P072 Benzo(a)anthracene	ND(10.0)	ug/L
P073 Benzo(a)pyrene	ND(10.0)	ug/L
P074 Benzo(b)fluoranthene	ND(10.0)	ug/L
Benzo(g,h,i)perylene	ND(20.0)	ug/L
P075 Benzo(k)fluoranthene	ND(10.0)	ug/L
P043 Bis(2-chloroethoxy)methane	ND(10.0)	ug/L
Bis(2-Chloroethyl)ether	ND(10.0)	ug/L
P066 Bis(2-ethylhexyl) phthalate	ND(10.0)	ug/L
P048 Bromodichloromethane	ND(10.0)	ug/L
Bromoform	ND(10.0)	ug/L
P046 Bromomethane	ND(10.0)	ug/L
P067 Butyl benzyl phthalate	ND(10.0)	ug/L
Carbon tetrachloride	ND(10.0)	ug/L
P007 Chlorobenzene	ND(10.0)	ug/L
P016 Chloroethane	ND(10.0)	ug/L
P023 Chloroform	ND(10.0)	ug/L
P045 Chloromethane	ND(10.0)	ug/L
P076 Chrysene	ND(10.0)	ug/L
cis-1,3-Dichloropropene	ND(10.0)	ug/L
Dibenz(a,h)anthracene	ND(20.0)	ug/L
P051 Dibromochloromethane	ND(10.0)	ug/L
P070 Diethyl phthalate	ND(10.0)	ug/L
P071 Dimethyl phthalate	ND(10.0)	ug/L
P068 Di-n-butyl phthalate	ND(10.0)	ug/L
P069 Di-n-octyl phthalate	ND(10.0)	ug/L
P038 Ethylbenzene	ND(10.0)	ug/L
P039 Fluoranthene	ND(10.0)	ug/L
P080 Fluorene	ND(10.0)	ug/L
P009 Hexachlorobenzene	ND(10.0)	ug/L
P052 Hexachlorobutadiene	ND(10.0)	ug/L
P053 Hexachlorocyclopentadiene	ND(10.0)	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

		Day 2	Unit
SP-14, Source Water		**65753**	
Volatile and Semitvolatile Organics			
P012	Hexachloroethane	ND(10.0)	ug/L
P083	Indeno(1,2,3-cd)pyrene	ND(20.0)	ug/L
P054	Isophorone	ND(10.0)	ug/L
P044	Methylene chloride	ND(10.0)	ug/L
P055	Naphthalene	ND(10.0)	ug/L
P056	Nitrobenzene	ND(10.0)	ug/L
P061	N-Nitrosodimethylamine	ND(50.0)	ug/L
	N-Nitroso Di-n-propylamine	ND(20.0)	ug/L
P062	N-Nitrosodiphenylamine	ND(20.0)	ug/L
P064	Pentachlorophenol	ND(50.0)	ug/L
P081	Phenanthrene	ND(10.0)	ug/L
P065	Phenol	53.0	ug/L
P084	Pyrene	ND(10.0)	ug/L
P085	Tetrachloroethene	ND(10.0)	ug/L
P086	Toluene	ND(10.0)	ug/L
P030	trans-1,2-Dichloroethene	ND(10.0)	ug/L
P033	trans-1,3-Dichloropropene	ND(10.0)	ug/L
P087	Trichloroethene	ND(10.0)	ug/L
	Trichlorofluoromethane	ND(10.0)	ug/L
P088	Vinyl chloride	ND(10.0)	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	Day 2	Unit
SP-14, Duplicate of Source Water	**65764**	
Classical Pollutants		
Settleable residue	ND(0.100)	mL/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

SP-15, Trip Blank	Day 5 65757	Unit
Volatile and Semitvolatile Organics		
P011 1,1,1-Trichloroethane	ND(10.0)	ug/L
P015 1,1,2,2-Tetrachloroethane	ND(10.0)	ug/L
P014 1,1,2-Trichloroethane	ND(10.0)	ug/L
P013 1,1-Dichloroethane	ND(10.0)	ug/L
P029 1,1-Dichloroethene	ND(10.0)	ug/L
P010 1,2-Dichloroethane	ND(10.0)	ug/L
P032 1,2-Dichloropropane	ND(10.0)	ug/L
P019 2-Chloroethyl vinyl ether	ND(50.0)	ug/L
P004 Benzene	ND(10.0)	ug/L
P048 Bromodichloromethane	ND(10.0)	ug/L
Bromoform	ND(10.0)	ug/L
P046 Bromomethane	ND(10.0)	ug/L
Carbon tetrachloride	ND(10.0)	ug/L
P007 Chlorobenzene	ND(10.0)	ug/L
P016 Chloroethane	ND(10.0)	ug/L
P023 Chloroform	ND(10.0)	ug/L
P045 Chloromethane	ND(10.0)	ug/L
cis-1,3-Dichloropropene	ND(10.0)	ug/L
P051 Dibromochloromethane	ND(10.0)	ug/L
P038 Ethylbenzene	ND(10.0)	ug/L
P044 Methylene chloride	ND(10.0)	ug/L
P085 Tetrachloroethene	ND(10.0)	ug/L
P086 Toluene	ND(10.0)	ug/L
P030 trans-1,2-Dichloroethene	ND(10.0)	ug/L
P033 trans-1,3-Dichloropropene	ND(10.0)	ug/L
P087 Trichloroethene	ND(10.0)	ug/L
Trichlorofluoromethane	ND(10.0)	ug/L
P088 Vinyl chloride	ND(10.0)	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	Day 1	Unit
SP-16, Equipment Blank	**65761**	
Classical Pollutants		
Hardness	ND(0.0130)	mg/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	Day 1	Unit
SP-16, Equipment Blank	**65761**	
Total and Dissolved Metals		
Aluminum	ND(9.93)	ug/L
P114 Antimony	ND(5.97)	ug/L
P115 Arsenic	ND(2.32)	ug/L
Barium	4.00	ug/L
P117 Beryllium	0.150	ug/L
Boron	ND(3.37)	ug/L
P118 Cadmium	ND(0.446)	ug/L
Calcium	ND(13.3)	ug/L
P119 Chromium	ND(1.68)	ug/L
Cobalt	ND(0.914)	ug/L
P120 Copper	ND(0.819)	ug/L
Iron	ND(19.8)	ug/L
P122 Lead	4.00	ug/L
Magnesium	ND(10.2)	ug/L
Manganese	2.00	ug/L
P123 Mercury	0.0200	ug/L
Molybdenum	ND(1.50)	ug/L
P124 Nickel	ND(2.66)	ug/L
P125 Selenium	ND(0.572)	ug/L
P126 Silver	ND(1.28)	ug/L
Sodium	ND(49.5)	ug/L
P127 Thallium	ND(0.00900)	ug/L
Tin	ND(3.45)	ug/L
Titanium	ND(0.253)	ug/L
Vanadium	ND(0.679)	ug/L
Yttrium	ND(0.222)	ug/L
P128 Zinc	11.0	ug/L
Aluminum, Dissolved	ND(9.93)	ug/L
P114 Antimony, Dissolved	ND(5.97)	ug/L
P115 Arsenic, Dissolved	ND(2.32)	ug/L
Barium, Dissolved	28.3	ug/L
P117 Beryllium, Dissolved	ND(0.0540)	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	Day 1	Unit
SP-16, Equipment Blank	**65761**	
Total and Dissolved Metals		
Boron, Dissolved	ND(3.37)	ug/L
P118 Cadmium, Dissolved	ND(0.446)	ug/L
Calcium, Dissolved	ND(13.3)	ug/L
P119 Chromium, Dissolved	ND(1.68)	ug/L
Cobalt, Dissolved	ND(0.914)	ug/L
P120 Copper, Dissolved	3.60	ug/L
Iron, Dissolved	ND(19.8)	ug/L
P122 Lead, Dissolved	23.7	ug/L
Magnesium, Dissolved	ND(10.2)	ug/L
Manganese, Dissolved	1.10	ug/L
P123 Mercury, Dissolved	0.0200	ug/L
Molybdenum, Dissolved	ND(1.50)	ug/L
P124 Nickel, Dissolved	ND(2.66)	ug/L
P125 Selenium, Dissolved	ND(0.572)	ug/L
P126 Silver, Dissolved	ND(1.28)	ug/L
Sodium, Dissolved	ND(49.5)	ug/L
P127 Thallium, Dissolved	0.0200	ug/L
Tin, Dissolved	ND(3.45)	ug/L
Titanium, Dissolved	ND(0.253)	ug/L
Vanadium, Dissolved	ND(0.679)	ug/L
Yttrium, Dissolved	ND(0.222)	ug/L
P128 Zinc, Dissolved	25.8	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	Day 1	Unit
SP-16, Equipment Blank	**65761**	
Volatile and Semitvolatile Organics		
P008 1,2,4-Trichlorobenzene	ND(10.0)	ug/L
P025 1,2-Dichlorobenzene	ND(10.0)	ug/L
P026 1,3-Dichlorobenzene	ND(10.0)	ug/L
P027 1,4-Dichlorobenzene	ND(10.0)	ug/L
P042 2,2'-Oxybis(1-chloropropane)	ND(10.0)	ug/L
P021 2,4,6-Trichlorophenol	ND(10.0)	ug/L
P031 2,4-Dichlorophenol	ND(10.0)	ug/L
P034 2,4-Dimethylphenol	ND(10.0)	ug/L
P059 2,4-Dinitrophenol	ND(50.0)	ug/L
P035 2,4-Dinitrotoluene	ND(10.0)	ug/L
P036 2,6-Dinitrotoluene	ND(10.0)	ug/L
P020 2-Chloronaphthalene	ND(10.0)	ug/L
P024 2-Chlorophenol	ND(10.0)	ug/L
P057 2-Nitrophenol	ND(20.0)	ug/L
P028 3,3'-Dichlorobenzidine	ND(50.0)	ug/L
4,6-Dinitro-2-methylphenol	ND(20.0)	ug/L
4-Bromophenyl phenyl ether	ND(10.0)	ug/L
P022 4-Chloro-3-methylphenol	ND(10.0)	ug/L
4-Chlorophenyl phenyl ether	ND(10.0)	ug/L
P058 4-Nitrophenol	ND(50.0)	ug/L
P001 Acenaphthene	ND(10.0)	ug/L
P077 Acenaphthylene	ND(10.0)	ug/L
P078 Anthracene	ND(10.0)	ug/L
P005 Benzidine	ND(50.0)	ug/L
P072 Benzo(a)anthracene	ND(10.0)	ug/L
P073 Benzo(a)pyrene	ND(10.0)	ug/L
P074 Benzo(b)fluoranthene	ND(10.0)	ug/L
Benzo(g,h,i)perylene	ND(20.0)	ug/L
P075 Benzo(k)fluoranthene	ND(10.0)	ug/L
P043 Bis(2-chloroethoxy)methane	ND(10.0)	ug/L
Bis(2-Chloroethyl)ether	ND(10.0)	ug/L
P066 Bis(2-ethylhexyl) phthalate	ND(10.0)	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-2
(continued)
Analytical Results, Except Microbiologicals
Island Princess

	Day 1	Unit
SP-16, Equipment Blank	**65761**	
Volatile and Semitvolatile Organics		
P067 Butyl benzyl phthalate	ND(10.0)	ug/L
P076 Chrysene	ND(10.0)	ug/L
Dibenz(a,h)anthracene	ND(20.0)	ug/L
P070 Diethyl phthalate	ND(10.0)	ug/L
P071 Dimethyl phthalate	ND(10.0)	ug/L
P068 Di-n-butyl phthalate	ND(10.0)	ug/L
P069 Di-n-octyl phthalate	ND(10.0)	ug/L
P039 Fluoranthene	ND(10.0)	ug/L
P080 Fluorene	ND(10.0)	ug/L
P009 Hexachlorobenzene	ND(10.0)	ug/L
P052 Hexachlorobutadiene	ND(10.0)	ug/L
P053 Hexachlorocyclopentadiene	ND(10.0)	ug/L
P012 Hexachloroethane	ND(10.0)	ug/L
P083 Indeno(1,2,3-cd)pyrene	ND(20.0)	ug/L
P054 Isophorone	ND(10.0)	ug/L
P055 Naphthalene	ND(10.0)	ug/L
P056 Nitrobenzene	ND(10.0)	ug/L
P061 N-Nitrosodimethylamine	ND(50.0)	ug/L
N-Nitroso Di-n-propylamine	ND(20.0)	ug/L
P062 N-Nitrosodiphenylamine	ND(20.0)	ug/L
P064 Pentachlorophenol	ND(50.0)	ug/L
P081 Phenanthrene	ND(10.0)	ug/L
P065 Phenol	ND(10.0)	ug/L
P084 Pyrene	ND(10.0)	ug/L

EXCLUDE - Data excluded from the data set (see data review narratives in Appendix D for details).
NC - Not collected.
ND - Not detected (number in parentheses is detection limit).

Appendix A-3

Analytical Results Collected Onboard (Field Measurements)
Island Princess - 28 August through 2 September 2004

Field measurement data and observations for each grab sample for each sampling point. Figures 2-1 and 2-2 identify sampling point locations. Sample collection times for composite sampling by flow or time are shown under Sampling Point column, where applicable. Duplicate samples were not collected for field measurements; consequently, duplicate sampling point SP-7 is not shown on this table.

Sampling Point	Sample Collection Times	Temperature (°C)	Turbidity (NTU)	pH	Sulfide (mg/L)	Salinity (ppt)	Conductivity (uS/cm)	Free Chlorine (mg/L)	Total Chlorine (mg/L)	Comments
SP-1 Galley Wastewater Day 1 24-hour Composite Collection Time: 0600 on 8/28/04to 0600 on 8/29/04	1045 on 8/28/04	36	400	5	2.4	0.6	1284	4.6	4.6	Slightly yellow, very cloudy
	1704 on 8/28/04	36	418	4	NA	0.9	1832	0.25	0.3	Very cloudy
	2210 on 8/28/04	31	344	6	5 (c)	0.3	662	0.25	0.02	
	0345 on 8/29/04	32	212	8	0.8	0.4	790	0.09	0.17	
SP-1 Galley Wastewater Day 2 24-hour Composite Collection Time: 0600 on 8/29/04to 0600 on 8/30/04	1038 on 8/29/04	33	400	8	1.75 (c)	0.3	746	0.0	0.02	Very cloudy
	1430 on 8/29/04	34	361	7	1.75 (c)	0.5	1122	0.04	0.02	
	2159 on 8/29/04	34	396	6	0.8	0.4	808	0.11	(b)	
	0355 on 8/30/04	36	(a)	7.5	0.8	0.5	1180	0.08	0.14	

NA - Not analyzed.
(a) Reading exceeds calibration range.
(b) Reading under detection range of instrument caused by low light penetration.
(c) Sulfide meter has a maximum detection limit of 0.80 mg/L. Dilutions were made to approximate sulfide content.
(d) Turbidity meter has a limit of quantification of 440 NTU. A result greater than 440 NTU indicated that the sample was diluted.
(e) Temperature result is considered unreliable.

Table A-3 (Continued)

Sampling Point	Sample Collection Times	Temperature (°C)	Turbidity (NTU)	pH	Sulfide (mg/L)	Salinity (ppt)	Conductivity (uS/cm)	Free Chlorine (mg/L)	Total Chlorine (mg/L)	Comments
SP-1 Galley Wastewater Day 3 24-hour Composite Collection Time: 0600 on 8/30/04to 0600 on 8/31/04	1010 on 8/30/04	34	802 (d)	4.0	3.75 (c)	1.3	2634	0.09	2.2	Very cloudy
	1630 on 8/30/04	37	488 (d)	6.0	2.25 (c)	0.6	1392	0.0	0.0	
	2200 on 8/30/04	35	(a)	7.0	0.8	0.2	411	0.16	0.31	
	0340 on 8/31/04	36	326	10	0.8	0.5	993	0.24	0.23	
SP-1 Galley Wastewater Day 4 24-hour Composite Collection Time: 0600 on 8/31/04to 0600 on 9/1/04	1045 on 8/31/04	30	450	5	2.25 (c)	0.2	362.0	0.0	0.0	Cloudy, yellow/white
	1643 on 8/31/04	30	434	5	1.75 (c)	0.3	1065	0.0	0.0	White, opaque
	2220 on 8/31/04	34	437	6	0.8	0.2	360.0	0.12	0.14	White, opaque
	0340 on 9/1/04	33	(a)	6	0.8	0.4	840	0.19	0.22	White/beige, opaque, visible food particles
SP-1 Galley Wastewater Day 5 24-hour Composite Collection Time: 0600 on 9/1//04to 0600 on 9/2/04	1030 on 9/1/04	38	296	6	1.75 (c)	0.3	745	0.04	0.0	Cloudy, white
	1630 on 9/1/04	37	462 (d)	6	2.25 (c)	0.4	833	0.0	0.0	Very cloudy, yellow/white
	2224 on 9/1/04	34	(a)	6	0.8	0.3	639	0.4	0.04	White, cloudy
	0311 on 9/2/04	36	(a)	8	0.8	0.5	1161	0.04	0.11	White, cloudy

NA - Not analyzed.
(a) Reading exceeds calibration range.
(b) Reading under detection range of instrument caused by low light penetration.
(c) Sulfide meter has a maximum detection limit of 0.80 mg/L. Dilutions were made to approximate sulfide content.
(d) Turbidity meter has a limit of quantification of 440 NTU. A result greater than 440 NTU indicated that the sample was diluted.
(e) Temperature result is considered unreliable.

Table A-3 (Continued)

Sampling Point	Sample Collection Times	Temperature (°C)	Turbidity (NTU)	pH	Sulfide (mg/L)	Salinity (ppt)	Conductivity (uS/cm)	Free Chlorine (mg/L)	Total Chlorine (mg/L)	Comments
SP-2 Laundry Wastewater Day 1 24-hour Composite Collection Time: 0600 on 8/28/04to 0600 on 8/29/04	1040 on 8/28/04	38	63	7	0.25	0.1	138	0.5	1.4	Cloudy, greyish
SP-2 Laundry Wastewater Day 2 24-hour Composite Collection Time: 0600 on 8/29/04to 0600 on 8/30/04	1600 on 8/29/04	27	79.5	7	0.16	0.2	332.2	0.67	1.22	Cloudy, greyish
	2245 on 8/29/04	28	47.9	7	0.21	0.1	316	0.16	0.22	
	0345 on 8/30/04	28	26.3	7	0.15	0.1	243.2	0.08	0.08	
SP-2 Laundry Wastewater Day 3 24-hour Composite Collection Time: 0600 on 8/30/04to 0600 on 8/31/04	1014 on 8/30/04	30	104	7	0.26	0.1	201.5	0.22	0.06	Cloudy, greyish
	1620 on 8/30/04	30	31.8	6	0.15	0.1	235.3	0.09	0.0	
	2230 on 8/30/04	35	35.0	6	0.15	0.1	300.0	0.0	2.2	
	0405 on 8/31/04	27	42.7	6	0.14	0.1	238.6	0.01	0.02	

NA - Not analyzed.
(a) Reading exceeds calibration range.
(b) Reading under detection range of instrument caused by low light penetration.
(c) Sulfide meter has a maximum detection limit of 0.80 mg/L. Dilutions were made to approximate sulfide content.
(d) Turbidity meter has a limit of quantification of 440 NTU. A result greater than 440 NTU indicated that the sample was diluted.
(e) Temperature result is considered unreliable.

Table A-3 (Continued)

Sampling Point	Sample Collection Times	Temperature (°C)	Turbidity (NTU)	pH	Sulfide (mg/L)	Salinity (ppt)	Conductivity (uS/cm)	Free Chlorine (mg/L)	Total Chlorine (mg/L)	Comments
SP-2 Laundry Wastewater Day 4 24-hour Composite Collection Time: 0600 on 8/31/04to 0600 on 9/1/04	1032 on 8/31/04	26	60.4	6	0.19	0.1	252.7	0.22	0.37	Cloudy, greyish
	1638 on 8/31/04	31	21.0	8	0.09	0.1	190.6	0.21	0.82	
	2247 on 8/31/04	32	43.3	7	0.19	0.1	183.5	2.2	2.2	
	0410 on 9/1/04	28	56.5	7	NA	0.1	132.5	NA	NA	
SP-2 Laundry Wastewater Day 5 24-hour Composite Collection Time: 0600 on 9/1/04to 0600 on 9/2/04	1024 on 9/1/04	26	92.9	5	0.27	0.4	782	0.0	0.0	Cloudy, greyish
	1623 on 9/1/04	28	49.6	5	0.25	0.4	961	0.01	0.0	
	2240 on 9/1/04	29	37.5	5	0.13	0.1	301.7	0.34	0.53	
	0340 on 9/2/04	26	34.3	5	0.1	0.1	165.4	0.15	0.39	
SP-3 Accommodations Wastewater Day 1 24-hour Composite Collection Time: 0600 on 8/28/04to 0600 on 8/29/04	1055 on 8/28/04	25	27	6	0.2	0.1	139	0.2	0.3	Slightly cloudy, white
	1700 on 8/28/04		95.5		0.2	0.1	178.5	0.03	(b)	
	2220 on 8/28/04	21	94.1	6	0.26	0.1	232.8	0.0	(b)	
	0355 on 8/29/04	22	68.5	6	0.26	0.1	169.8	0.0	(b)	

NA - Not analyzed.
(a) Reading exceeds calibration range.
(b) Reading under detection range of instrument caused by low light penetration.
(c) Sulfide meter has a maximum detection limit of 0.80 mg/L. Dilutions were made to approximate sulfide content.
(d) Turbidity meter has a limit of quantification of 440 NTU. A result greater than 440 NTU indicated that the sample was diluted.
(e) Temperature result is considered unreliable.

Table A-3 (Continued)

Sampling Point	Sample Collection Times	Temperature (°C)	Turbidity (NTU)	pH	Sulfide (mg/L)	Salinity (ppt)	Conductivity (uS/cm)	Free Chlorine (mg/L)	Total Chlorine (mg/L)	Comments
SP-3 Accommodations Wastewater Day 2 24-hour Composite Collection Time: 0600 on 8/29/04to 0600 on 8/30/04	1052 on 8/29/04	25	106	7.5	0.28	0.2	369.9	0.0	0.01	Slightly cloudy, white
	1648 on 8/29/04	24	169	8	0.25	0.2	376.7	0.0	0.0	
	2220 on 8/29/04	23	68	7	0.27	0.1	187.8	0.02	(b)	
	0405 on 8/30/04	22	34.1	6	0.19	0.1	140.3	0.02	0.0	
SP-3 Accommodations Wastewater Day 3 24-hour Composite Collection Time: 0600 on 8/30/04to 0600 on 8/31/04	1025 on 8/30/04	23	62.7	7.0	0.19	0.1	207.3	0.0	0.0	Slightly cloudy, white
	1630 on 8/30/04	21	101	8.0	0.0	0.1	519	0.01	0.0	
	2210 on 8/30/04	21	49.5	7	0.0	0.1	150.4	0.04	0.0	
	0345 on 8/31/04	20	42.7	6	0.17	0.1	103.1	0.02	0.0	
SP-3 Accommodations Wastewater Day 4 24-hour Composite Collection Time: 0600 on 8/31/04to 0600 on 9/1/04	1045 on 8/31/04	24	35.9	6	0.14	0.0	83.6	0.0	0.0	Slightly cloudy, white
	1658 on 8/31/04	24	56.5	6	0.27	0.1	196.5	0.0	0.0	
	2231 on 8/31/04	24	74.7	6	0.27	0.1	209.6	0.11	(b)	
	0350 on 9/1/04	18	62.1	7	0.19	0.1	203.1	0.06	(b)	

NA - Not analyzed.
(a) Reading exceeds calibration range.
(b) Reading under detection range of instrument caused by low light penetration.
(c) Sulfide meter has a maximum detection limit of 0.80 mg/L. Dilutions were made to approximate sulfide content.
(d) Turbidity meter has a limit of quantification of 440 NTU. A result greater than 440 NTU indicated that the sample was diluted.
(e) Temperature result is considered unreliable.

Table A-3 (Continued)

Sampling Point	Sample Collection Times	Temperature (°C)	Turbidity (NTU)	pH	Sulfide (mg/L)	Salinity (ppt)	Conductivity (uS/cm)	Free Chlorine (mg/L)	Total Chlorine (mg/L)	Comments
SP-3 Accommodations Wastewater Day 5 24-hour Composite Collection Time: 0600 on 9/1/04to 0600 on 9/2/04	1030 on 9/1/04	24	39.6	7	0.18	0.1	159.6	0.0	0.0	Slightly cloudy, white
	1630 on 9/1/04	26	73.9	6.5	0.28	0.2	330.6	0.01	0.0	
	2227 on 9/1/04	24	57.5	7	0.22	0.1	225.2	0.03	0.0	
	0316 on 9/2/04	19	55.0	6	0.23	0.2	298	0.0	(b)	
SP-4 Influent to Treatment Day 1 24-hour Composite Collection Time: 0600 on 8/28/04to 0600 on 8/29/04	1105 on 8/28/04	27	332	7	2.5(c)	7.9	15300	0.7	0.85	Dark yellow/brown, cloudy
	1700 on 8/28/04	27	364	7	1.5 (c)	2.3	4345	4.8	4.8	
	2230 on 8/28/04	28	NA	7	NA	NA	NA	0.4	0.1	
	0350 on 8/29/04	28	196	7	1.75 (c)	0.3	630	0.0	0.01	
SP-4 Influent to Treatment Day 2 24-hour Composite Collection Time: 0600 on 8/29/04to 0600 on 8/30/04	1126 on 8/29/04	28	312	6.5	1.75 (c)	1.0	1984	0.0	0.02	Dark yellow/brown, cloudy
	1800 on 8/29/04	31	600	8	4.2 (c)	8.9	16280	0.5	0.52	
	2200 on 8/29/04	30	64.3	6	0.49	0.2	328.1	0.05	0.03	
	0650 on 8/30/04	30	97.4	6	0.8	0.4	819	0.05	(b)	

NA - Not analyzed.
(a) Reading exceeds calibration range.
(b) Reading under detection range of instrument caused by low light penetration.
(c) Sulfide meter has a maximum detection limit of 0.80 mg/L. Dilutions were made to approximate sulfide content.
(d) Turbidity meter has a limit of quantification of 440 NTU. A result greater than 440 NTU indicated that the sample was diluted.
(e) Temperature result is considered unreliable.

Table A-3 (Continued)

Sampling Point	Sample Collection Times	Temperature (°C)	Turbidity (NTU)	pH	Sulfide (mg/L)	Salinity (ppt)	Conductivity (uS/cm)	Free Chlorine (mg/L)	Total Chlorine (mg/L)	Comments
SP-4 Influent to Treatment Day 3 24-hour Composite Collection Time: 0600 on 8/30/04to 0600 on 8/31/04	1005 on 8/30/04	30	96.5	6	0.55	0.2	665.6	0.0	0.0	Dark yellow/brown, cloudy
	1630 on 8/30/04	31	597	8	4.75 (c)	8.6	16380	0.0	2.2	
	2325 on 8/30/04	32	(a)	8	NA	NA	NA	NA	NA	dark brown, too turbid to complete all field tests, more solids
	0352 on 8/31/04	30	NA	8	NA	NA	NA	NA	NA	dark brown, solids, too turbid to complete field tests
SP-4 Influent to Treatment Day 4 24-hour Composite Collection Time: 0600 on 8/31/04to 0600 on 9/1/04	1030 on 8/31/04	28	368	8	3.5 (c)	8.3	14750	1.17	0.0	Brown with sediment on bottom
	1605 on 8/31/04	30	5872 (d)	7	7.28 (c)	1.7	3641	0.0	0.66	Very brown/green with suspended particles
	2220 on 8/31/04	30	74.4	7	0.47	0.1	231.5	0.06	0.01	Much cleaner than before
	0300 on 9/1/04	29	154	7	0.8	0.2	481.5	0.0	0.0	
SP-4 Influent to Treatment Day 5 24-hour Composite Collection Time: 0600 on 9/1/04to 0600 on 9/2/04	1030 on 9/1/04	33	392.8	8	3.5 (c)	8.9	16600	0.04	0.0	Brown with solids on bottom
	1620 on 9/1/04		614.4 (d)	8	3.5 (c)	11.7	21530	2.2	0.08	Brown with solids on bottom
	2215 on 9/1/04	29	282	7	0.8	1.7	3566	0.0	0.0	Brown/yellow, a few solids
	0300 on 9/2/04	29	56.3	6	0.67	0.1	295.5	0.0	0.0	White, but clear, smelly

NA - Not analyzed.
(a) Reading exceeds calibration range.
(b) Reading under detection range of instrument caused by low light penetration.
(c) Sulfide meter has a maximum detection limit of 0.80 mg/L. Dilutions were made to approximate sulfide content.
(d) Turbidity meter has a limit of quantification of 440 NTU. A result greater than 440 NTU indicated that the sample was diluted.
(e) Temperature result is considered unreliable.

Table A-3 (Continued)

Sampling Point	Sample Collection Times	Temperature (°C)	Turbidity (NTU)	pH	Sulfide (mg/L)	Salinity (ppt)	Conductivity (uS/cm)	Free Chlorine (mg/L)	Total Chlorine (mg/L)	Comments
SP-5 Influent to UV Disinfection Day 1	2300 on 8/28/04	38	5.8	7	NA	1.8	3900	0.04	0.04	Clear, yellow tint, no visible solids
SP-5 Influent to UV Disinfection Day 2	1107 on 8/29/04	36	5.7	7	0.025	2.5	6020	0.02	0.01	Clear, yellow tint, no visible solids
	1945 on 8/29/04	33	4.4	7	0.02	2.9	2915	0.08	0.04	
	2210 on 8/29/04	35	1.2	7	0.02	2.1	4075	0.0	0.0	
SP-5 Influent to UV Disinfection Day 3	0725 on 8/30/04	(e)	0.9	7	0.01	1.4	3026	0.0	0.0	Clear, yellow tint, no visible solids
	2145 on 8/30/04	38	0.6	7	0.03	3.0	3300	0.02	0.04	
	0110 on 8/31/04	40	1.6	7	0.03	1.2	3017	0.08	0.03	
SP-5 Influent to UV Disinfection Day 4	1015 on 8/31/04	32	1.1	7	0.02	2.8	5240	0.06	0.05	Clear, yellow tint, no visible solids
	1655 on 8/31/04	38	1.9	7	0.04	1.8	4086	0.17	0.07	
	2230 on 8/31/04	38	4.4	7	0.04	1.6	3655	0.11	.02	
SP-5 Influent to UV Disinfection Day 5	1008 on 9/1/04	37	2.0	7	0.04	1.7	3637	0.13	0.03	Clear, yellow tint, no visible solids
	1617 on 9/1/04	39	0.6	7	0.03	1.3	2860	0.11	0.07	
	2200 on 9/1/04	37	45	7	0.02	1.7	4130	0.0	0.03	

NA - Not analyzed.
(a) Reading exceeds calibration range.
(b) Reading under detection range of instrument caused by low light penetration.
(c) Sulfide meter has a maximum detection limit of 0.80 mg/L. Dilutions were made to approximate sulfide content.
(d) Turbidity meter has a limit of quantification of 440 NTU. A result greater than 440 NTU indicated that the sample was diluted.
(e) Temperature result is considered unreliable.

Table A-3 (Continued)

Sampling Point	Sample Collection Times	Temperature (°C)	Turbidity (NTU)	pH	Sulfide (mg/L)	Salinity (ppt)	Conductivity (uS/cm)	Free Chlorine (mg/L)	Total Chlorine (mg/L)	Comments
SP-6 Effluent from Treatment Day 1 24-hour Composite Collection Time: 0600 on 8/28/04to 0600 on 8/29/04	1100 on 8/28/04	33	5	7	0.1	1.8	6579	0.08	0.08	Clear, yellow tint, no solids
	1704 on 8/28/04	36	1.3	4	0.04	1.4	2956	0.03	0.04	
	2245 on 8/28/04	38	0.2	7	0.0	1.7	3400	0.05	0.07	
	0330 on 8/29/04	36	0.2	7	0.0	1.6	3400	0.05	0.05	Samples collected with a lot of dissolved air
SP-6 Effluent from Treatment Day 2 24-hour Composite Collection Time: 0600 on 8/29/04to 0600 on 8/30/04	1027 on 8/29/04	35	0.6	7	0.01	2.1	4207	0.04	0.02	Clear, yellow tint, no visible solids
	1945 on 8/29/04	32	0.5	7	0.0	2.9	2933	0.09	0.02	
	2205 on 8/29/04	33	0.4	7	0.01	2.0	4620	0.11	0.05	
	0405 on 8/30/04	37	0.2	7	0.02	1.7	3706	0.03	0.06	
SP-6 Effluent from Treatment Day 3 24-hour Composite Collection Time: 0600 on 8/30/04to 0600 on 8/31/04	0715 on 8/30/04	(e)	0.7	7	0.02	1.4	2931	0.0	0.02	Clear, yellow tint, no visible solids
	2145 on 8/30/04	38	0.5	7	0.02	3.2	3248	0.18	0.02	
	0110 on 8/31/04	38	2.7	7	0.06	1.4	3160	0.07	0.05	
	0335 on 8/31/04	36	3.0	7	0.02	2.2	4849	0.01	0.0	

NA - Not analyzed.
(a) Reading exceeds calibration range.
(b) Reading under detection range of instrument caused by low light penetration.
(c) Sulfide meter has a maximum detection limit of 0.80 mg/L. Dilutions were made to approximate sulfide content.
(d) Turbidity meter has a limit of quantification of 440 NTU. A result greater than 440 NTU indicated that the sample was diluted.
(e) Temperature result is considered unreliable.

Table A-3 (Continued)

Sampling Point	Sample Collection Times	Temperature (°C)	Turbidity (NTU)	pH	Sulfide (mg/L)	Salinity (ppt)	Conductivity (uS/cm)	Free Chlorine (mg/L)	Total Chlorine (mg/L)	Comments
SP-6 Effluent from Treatment Day 4 24-hour Composite Collection Time: 0600 on 8/31/04to 0600 on 9/1//04	1020 on 8/31/04	33	32.8	7	0.4	2.8	5760	0.01	0.0	Clear, yellow tint, no visible solids
	1649 on 8/31/04	32	4.0	7	0.02	1.9	4139	0.08	0.01	
	2230 on 8/31/04	37	0.6	6	0.03	0.8	1920	0.1	0.06	
	0650 on 9/1/04	37	0.5	7	0.04	0.7	1525	0.09	0.04	
SP-6 Effluent from Treatment Day 5 24-hour Composite Collection Time: 0600 on 9/1/04to 0600 on 9/2/04	1012 on 9/1/04	35	0.6	7	0.04	1.7	3649	0.0	0.01	Yellow, clear
	1604 on 9/1/04	39	0.0	7	0.04	1.3	2893	0.0	0.0	
	2200 on 9/1/04	37	2.4	7	0.02	1.7	3976	0.0	0.04	
	0300 on 9/2/04	37	0.4	7	0.02	1.4	3172	0.6	0.2	
SP-8 Galley Wastewater Overboard Discharge	1800 on 8/26/04	23	600	5	1.6 (c)	0.3	529	2.2	4.6	
SP-9 Laundry Wastewater Overboard Discharge	1800 on 8/26/04	29	150	7	0.7	0.7	1348	0.8	2.2	
SP-10 Food Pulper Overboard Discharge	1920 on 8/26/04	25	654	5	2 (c)	4.0	8000	23	3.4	

NA - Not analyzed.
(a) Reading exceeds calibration range.
(b) Reading under detection range of instrument caused by low light penetration.
(c) Sulfide meter has a maximum detection limit of 0.80 mg/L. Dilutions were made to approximate sulfide content.
(d) Turbidity meter has a limit of quantification of 440 NTU. A result greater than 440 NTU indicated that the sample was diluted.
(e) Temperature result is considered unreliable.

Table A-3 (Continued)

Sampling Point	Sample Collection Times	Temperature (°C)	Turbidity (NTU)	pH	Sulfide (mg/L)	Salinity (ppt)	Conductivity (uS/cm)	Free Chlorine (mg/L)	Total Chlorine (mg/L)	Comments
SP-12 Waste Biosludge Discharge	1920 on 8/26/04	35	(a)	7	6.0 (c)	1.8	3861	2.2	2.2	
SP-14 Source Water	1427		0.0	6	0.0	0.0	53.2	0.97	1.05	

NA - Not analyzed.
(a) Reading exceeds calibration range.
(b) Reading under detection range of instrument caused by low light penetration.
(c) Sulfide meter has a maximum detection limit of 0.80 mg/L. Dilutions were made to approximate sulfide content.
(d) Turbidity meter has a limit of quantification of 440 NTU. A result greater than 440 NTU indicated that the sample was diluted.
(e) Temperature result is considered unreliable.

Appendix B

RAW FLOW DATA COLLECTED FROM 23 AUGUST THROUGH 3 SEPTEMBER 2004

Appendix B
Raw Flow from Galley (SP-1)
23 August Through 3 September 2004

Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1		08.23.2004	15.5	0	CU M/MI	0.2271	CU M
SP1		08.23.2004	15.55	0	CU M/MI	0.18925	CU M
SP1		08.23.2004	16	0	CU M/MI	0.18925	CU M
SP1		08.23.2004	16.05	0	CU M/MI	0.1514	CU M
SP1		08.23.2004	16.1	0	CU M/MI	0.1514	CU M
SP1		08.23.2004	16.15	0	CU M/MI	0.1514	CU M
SP1		08.23.2004	16.2	0	CU M/MI	0.1514	CU M
SP1		08.23.2004	16.25	0	CU M/MI	0.11355	CU M
SP1		08.23.2004	16.3	0	CU M/MI	0.11355	CU M
SP1		08.23.2004	16.35	0	CU M/MI	0.11355	CU M
SP1		08.23.2004	16.4	0	CU M/MI	0.0757	CU M
SP1		08.23.2004	16.45	0	CU M/MI	0.0757	CU M
SP1		08.23.2004	16.5	0	CU M/MI	0.03785	CU M
SP1		08.23.2004	16.55	0	CU M/MI	0.03785	CU M
SP1		08.23.2004	17	0	CU M/MI	0.03785	CU M
SP1		08.23.2004	17.05	0	CU M/MI	0	CU M
SP1		08.23.2004	17.1	0	CU M/MI	-0.03785	CU M
SP1		08.23.2004	17.15	0	CU M/MI	-0.03785	CU M
SP1		08.23.2004	17.2	0	CU M/MI	-0.0757	CU M
SP1		08.23.2004	17.25	0	CU M/MI	-0.0757	CU M
SP1		08.23.2004	17.3	0	CU M/MI	-0.11355	CU M
SP1		08.23.2004	17.35	0	CU M/MI	-0.1514	CU M
SP1		08.23.2004	17.4	0	CU M/MI	-0.1514	CU M
SP1		08.23.2004	17.45	0	CU M/MI	-0.18925	CU M
SP1		08.23.2004	17.5	0	CU M/MI	-0.2271	CU M
SP1		08.23.2004	17.55	0	CU M/MI	-0.2271	CU M
SP1		08.23.2004	18	0	CU M/MI	-0.26495	CU M
SP1		08.23.2004	18.05	0	CU M/MI	-0.26495	CU M
SP1		08.23.2004	18.1	0	CU M/MI	-0.18925	CU M
SP1		08.23.2004	18.15	0	CU M/MI	-0.2271	CU M
SP1		08.23.2004	18.2	0	CU M/MI	-0.26495	CU M
SP1		08.23.2004	18.25	0	CU M/MI	-0.26495	CU M
SP1		08.23.2004	18.3	0	CU M/MI	-0.3028	CU M
SP1		08.23.2004	18.35	0	CU M/MI	-0.34065	CU M
SP1		08.23.2004	18.4	0	CU M/MI	-0.34065	CU M
SP1		08.23.2004	18.45	0	CU M/MI	-0.41635	CU M
SP1		08.23.2004	18.5	0	CU M/MI	-0.41635	CU M
SP1		08.23.2004	18.55	0	CU M/MI	-0.4542	CU M
SP1		08.23.2004	19	0	CU M/MI	-0.4542	CU M
SP1		08.23.2004	19.05	0	CU M/MI	-0.49205	CU M
SP1		08.23.2004	19.1	0	CU M/MI	-0.49205	CU M
SP1		08.23.2004	19.15	0	CU M/MI	-0.56775	CU M
SP1		08.23.2004	19.2	0	CU M/MI	-0.56775	CU M
SP1		08.23.2004	19.25	0	CU M/MI	-0.6056	CU M
SP1		08.23.2004	19.3	0	CU M/MI	-0.6056	CU M
SP1		08.23.2004	19.35	0	CU M/MI	-0.64345	CU M
SP1		08.23.2004	19.4	0	CU M/MI	-0.6813	CU M
SP1		08.23.2004	19.45	0	CU M/MI	-0.6813	CU M
SP1		08.23.2004	19.5	0	CU M/MI	-0.6813	CU M
SP1		08.23.2004	19.55	0	CU M/MI	-0.64345	CU M
SP1		08.23.2004	20	0	CU M/MI	-0.64345	CU M
SP1		08.23.2004	20.05	0	CU M/MI	-0.6813	CU M
SP1		08.23.2004	20.1	0	CU M/MI	-0.6813	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1		08.23.2004	20.15	0	CU M/MI	-0.6813	CU M
SP1		08.23.2004	20.2	0	CU M/MI	-0.6813	CU M
SP1		08.23.2004	20.25	0	CU M/MI	-0.6813	CU M
SP1		08.23.2004	20.3	0	CU M/MI	-0.71915	CU M
SP1		08.23.2004	20.35	0	CU M/MI	-0.6813	CU M
SP1		08.23.2004	20.4	0	CU M/MI	-0.6813	CU M
SP1		08.23.2004	20.45	0	CU M/MI	-0.6813	CU M
SP1		08.23.2004	20.5	0	CU M/MI	-0.71915	CU M
SP1		08.23.2004	20.55	0	CU M/MI	-0.71915	CU M
SP1		08.23.2004	21	0	CU M/MI	-0.71915	CU M
SP1		08.23.2004	21.05	0	CU M/MI	-0.71915	CU M
SP1		08.23.2004	21.1	0	CU M/MI	-0.71915	CU M
SP1		08.23.2004	21.15	0	CU M/MI	-0.757	CU M
SP1		08.23.2004	21.2	0	CU M/MI	-0.757	CU M
SP1		08.23.2004	21.25	0	CU M/MI	-0.757	CU M
SP1		08.23.2004	21.3	0	CU M/MI	-0.757	CU M
SP1		08.23.2004	21.35	0	CU M/MI	-0.79485	CU M
SP1		08.23.2004	21.4	0	CU M/MI	-0.79485	CU M
SP1		08.23.2004	21.45	0.00016	CU M/MI	-0.79485	CU M
SP1		08.23.2004	21.5	0	CU M/MI	-0.79485	CU M
SP1		08.23.2004	21.55	0	CU M/MI	-0.79485	CU M
SP1		08.23.2004	22	0	CU M/MI	-0.79485	CU M
SP1		08.23.2004	22.05	0.00047	CU M/MI	-0.79485	CU M
SP1		08.23.2004	22.1	0.00124	CU M/MI	-0.79485	CU M
SP1		08.23.2004	22.15	0	CU M/MI	-0.79485	CU M
SP1		08.23.2004	22.2	0	CU M/MI	-0.8327	CU M
SP1		08.23.2004	22.25	0	CU M/MI	-0.8327	CU M
SP1		08.23.2004	22.3	0	CU M/MI	-0.8327	CU M
SP1		08.23.2004	22.35	0.00007	CU M/MI	-0.8327	CU M
SP1		08.23.2004	22.4	0	CU M/MI	-0.79485	CU M
SP1		08.23.2004	22.45	0	CU M/MI	-0.8327	CU M
SP1		08.23.2004	22.5	0	CU M/MI	-0.8327	CU M
SP1		08.23.2004	22.55	0	CU M/MI	-0.8327	CU M
SP1		08.23.2004	23	0	CU M/MI	-0.8327	CU M
SP1		08.23.2004	23.05	0	CU M/MI	-0.8327	CU M
SP1		08.23.2004	23.1	0	CU M/MI	-0.8327	CU M
SP1		08.23.2004	23.15	0	CU M/MI	-0.87055	CU M
SP1		08.23.2004	23.2	0	CU M/MI	-0.87055	CU M
SP1		08.23.2004	23.25	0	CU M/MI	-0.8327	CU M
SP1		08.23.2004	23.3	0	CU M/MI	-0.8327	CU M
SP1		08.23.2004	23.35	0	CU M/MI	-0.8327	CU M
SP1		08.23.2004	23.4	0	CU M/MI	-0.8327	CU M
SP1		08.23.2004	23.45	0	CU M/MI	-0.87055	CU M
SP1		08.23.2004	23.5	0	CU M/MI	-0.87055	CU M
SP1		08.23.2004	23.55	0	CU M/MI	-0.9084	CU M
SP1		08.24.2004	0	0	CU M/MI	-0.9084	CU M
SP1		08.24.2004	0.05	0	CU M/MI	-0.94625	CU M
SP1		08.24.2004	0.1	0	CU M/MI	-0.9084	CU M
SP1		08.24.2004	0.15	0	CU M/MI	-0.94625	CU M
SP1		08.24.2004	0.2	0	CU M/MI	-0.94625	CU M
SP1		08.24.2004	0.25	0	CU M/MI	-0.9841	CU M
SP1		08.24.2004	0.3	0	CU M/MI	-0.9841	CU M
SP1		08.24.2004	0.35	0	CU M/MI	-1.02195	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1		08.24.2004	0.4	0	CU M/MI	-1.0598	CU M
SP1		08.24.2004	0.45	0	CU M/MI	-1.0598	CU M
SP1		08.24.2004	0.5	0	CU M/MI	-1.09765	CU M
SP1		08.24.2004	0.55	0	CU M/MI	-1.09765	CU M
SP1		08.24.2004	1	0	CU M/MI	-1.09765	CU M
SP1		08.24.2004	1.05	0	CU M/MI	-1.1355	CU M
SP1		08.24.2004	1.1	0	CU M/MI	-1.1355	CU M
SP1		08.24.2004	1.15	0	CU M/MI	-1.17335	CU M
SP1		08.24.2004	1.2	0	CU M/MI	-1.17335	CU M
SP1		08.24.2004	1.25	0	CU M/MI	-1.2112	CU M
SP1		08.24.2004	1.3	0	CU M/MI	-1.2112	CU M
SP1		08.24.2004	1.35	0	CU M/MI	-1.17335	CU M
SP1		08.24.2004	1.4	0	CU M/MI	-1.17335	CU M
SP1		08.24.2004	1.45	0	CU M/MI	-1.2112	CU M
SP1		08.24.2004	1.5	0	CU M/MI	-1.2112	CU M
SP1		08.24.2004	1.55	0	CU M/MI	-1.2112	CU M
SP1		08.24.2004	2	0	CU M/MI	-1.24905	CU M
SP1		08.24.2004	2.05	0	CU M/MI	-1.24905	CU M
SP1		08.24.2004	2.1	0	CU M/MI	-1.2869	CU M
SP1		08.24.2004	2.15	0	CU M/MI	-1.2869	CU M
SP1		08.24.2004	2.2	0	CU M/MI	-1.32475	CU M
SP1		08.24.2004	2.25	0	CU M/MI	-1.32475	CU M
SP1		08.24.2004	2.3	0	CU M/MI	-1.3626	CU M
SP1		08.24.2004	2.35	0	CU M/MI	-1.40045	CU M
SP1		08.24.2004	2.4	0	CU M/MI	-1.40045	CU M
SP1		08.24.2004	2.45	0	CU M/MI	-1.4383	CU M
SP1		08.24.2004	2.5	0	CU M/MI	-1.4383	CU M
SP1		08.24.2004	2.55	0	CU M/MI	-1.47615	CU M
SP1		08.24.2004	3	0	CU M/MI	-1.514	CU M
SP1		08.24.2004	3.05	0	CU M/MI	-1.514	CU M
SP1		08.24.2004	3.1	0	CU M/MI	-1.55185	CU M
SP1		08.24.2004	3.15	0	CU M/MI	-1.55185	CU M
SP1		08.24.2004	3.2	0	CU M/MI	-1.5897	CU M
SP1		08.24.2004	3.25	0	CU M/MI	-1.62755	CU M
SP1		08.24.2004	3.3	0	CU M/MI	-1.62755	CU M
SP1		08.24.2004	3.35	0	CU M/MI	-1.6654	CU M
SP1		08.24.2004	3.4	0	CU M/MI	-1.70325	CU M
SP1		08.24.2004	3.45	0	CU M/MI	-1.7411	CU M
SP1		08.24.2004	3.5	0	CU M/MI	-1.7411	CU M
SP1		08.24.2004	3.55	0	CU M/MI	-1.77895	CU M
SP1		08.24.2004	4	0	CU M/MI	-1.77895	CU M
SP1		08.24.2004	4.05	0	CU M/MI	-1.8168	CU M
SP1		08.24.2004	4.1	0	CU M/MI	-1.85465	CU M
SP1		08.24.2004	4.15	0	CU M/MI	-1.85465	CU M
SP1		08.24.2004	4.2	0	CU M/MI	-1.8925	CU M
SP1		08.24.2004	4.25	0	CU M/MI	-1.93035	CU M
SP1		08.24.2004	4.3	0	CU M/MI	-1.93035	CU M
SP1		08.24.2004	4.35	0	CU M/MI	-1.9682	CU M
SP1		08.24.2004	4.4	0	CU M/MI	-1.9682	CU M
SP1		08.24.2004	4.45	0	CU M/MI	-2.00605	CU M
SP1		08.24.2004	4.5	0	CU M/MI	-2.0439	CU M
SP1		08.24.2004	4.55	0	CU M/MI	-2.0439	CU M
SP1		08.24.2004	5	0	CU M/MI	-2.08175	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1		08.24.2004	5.05	0	CU M/MI	-2.1196	CU M
SP1		08.24.2004	5.1	0	CU M/MI	-2.1196	CU M
SP1		08.24.2004	5.15	0	CU M/MI	-2.15745	CU M
SP1		08.24.2004	5.2	0	CU M/MI	-2.1953	CU M
SP1		08.24.2004	5.25	0	CU M/MI	-2.1953	CU M
SP1		08.24.2004	5.3	0	CU M/MI	-2.23315	CU M
SP1		08.24.2004	5.35	0	CU M/MI	-2.271	CU M
SP1		08.24.2004	5.4	0	CU M/MI	-2.271	CU M
SP1		08.24.2004	5.45	0	CU M/MI	-2.30885	CU M
SP1		08.24.2004	5.5	0	CU M/MI	-2.3467	CU M
SP1		08.24.2004	5.55	0	CU M/MI	-2.3467	CU M
SP1		08.24.2004	6	0	CU M/MI	-2.38455	CU M
SP1		08.24.2004	6.05	0	CU M/MI	-2.4224	CU M
SP1		08.24.2004	6.1	0	CU M/MI	-2.46025	CU M
SP1		08.24.2004	6.15	0	CU M/MI	-2.46025	CU M
SP1		08.24.2004	6.2	0	CU M/MI	-2.4981	CU M
SP1		08.24.2004	6.25	0	CU M/MI	-2.53595	CU M
SP1		08.24.2004	6.3	0	CU M/MI	-2.53595	CU M
SP1		08.24.2004	6.35	0	CU M/MI	-2.5738	CU M
SP1		08.24.2004	6.4	0	CU M/MI	-2.61165	CU M
SP1		08.24.2004	6.45	0	CU M/MI	-2.6495	CU M
SP1		08.24.2004	6.5	0	CU M/MI	-2.6495	CU M
SP1		08.24.2004	6.55	0	CU M/MI	-2.68735	CU M
SP1		08.24.2004	7	0	CU M/MI	-2.7252	CU M
SP1		08.24.2004	7.05	0	CU M/MI	-2.76305	CU M
SP1		08.24.2004	7.1	0	CU M/MI	-2.76305	CU M
SP1		08.24.2004	7.15	0	CU M/MI	-2.8009	CU M
SP1		08.24.2004	7.2	0	CU M/MI	-2.8009	CU M
SP1		08.24.2004	7.25	0	CU M/MI	-2.83875	CU M
SP1		08.24.2004	7.3	0	CU M/MI	-2.8766	CU M
SP1		08.24.2004	7.35	0	CU M/MI	-2.91445	CU M
SP1		08.24.2004	7.4	0	CU M/MI	-2.91445	CU M
SP1		08.24.2004	7.45	0	CU M/MI	-2.9523	CU M
SP1		08.24.2004	7.5	0	CU M/MI	-2.99015	CU M
SP1		08.24.2004	7.55	0	CU M/MI	-3.028	CU M
SP1		08.24.2004	8	0	CU M/MI	-3.028	CU M
SP1		08.24.2004	8.05	0	CU M/MI	-3.06585	CU M
SP1		08.24.2004	8.1	0	CU M/MI	-3.1037	CU M
SP1		08.24.2004	8.15	0	CU M/MI	-3.14155	CU M
SP1		08.24.2004	8.2	0	CU M/MI	-3.14155	CU M
SP1		08.24.2004	8.25	0	CU M/MI	-3.14155	CU M
SP1		08.24.2004	8.3	0	CU M/MI	-3.14155	CU M
SP1		08.24.2004	8.35	0	CU M/MI	-3.1794	CU M
SP1		08.24.2004	8.4	0	CU M/MI	-3.1794	CU M
SP1		08.24.2004	8.45	0	CU M/MI	-3.1794	CU M
SP1		08.24.2004	8.5	0	CU M/MI	-3.1794	CU M
SP1		08.24.2004	8.55	0	CU M/MI	-3.1794	CU M
SP1		08.24.2004	9	0	CU M/MI	-3.1794	CU M
SP1		08.24.2004	9.1	0	CU M/MI	-3.21725	CU M
SP1		08.24.2004	9.15	1.22339	CU M/MI	-2.91445	CU M
SP1		08.24.2004	9.2	0.0001	CU M/MI	-1.62755	CU M
SP1		08.24.2004	9.25	0	CU M/MI	-1.62755	CU M
SP1		08.24.2004	9.3	0.00059	CU M/MI	-1.62755	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1		08.24.2004	9.35	0.00021	CU M/MI	-1.62755	CU M
SP1		08.24.2004	9.4	0.00028	CU M/MI	-1.62755	CU M
SP1		08.24.2004	9.45	0.00037	CU M/MI	-1.62755	CU M
SP1		08.24.2004	9.5	0.00136	CU M/MI	-1.5897	CU M
SP1		08.24.2004	9.55	0.00158	CU M/MI	-1.5897	CU M
SP1		08.24.2004	10	0.00176	CU M/MI	-1.5897	CU M
SP1		08.24.2004	10.05	0.00149	CU M/MI	-1.5897	CU M
SP1		08.24.2004	10.1	0	CU M/MI	-1.24905	CU M
SP1		08.24.2004	10.15	0	CU M/MI	-1.24905	CU M
SP1		08.24.2004	10.2	0	CU M/MI	-1.24905	CU M
SP1		08.24.2004	10.25	0	CU M/MI	-1.24905	CU M
SP1		08.24.2004	10.3	0.0002	CU M/MI	-1.24905	CU M
SP1		08.24.2004	10.35	0.00016	CU M/MI	-1.24905	CU M
SP1		08.24.2004	10.4	0.00043	CU M/MI	-1.24905	CU M
SP1		08.24.2004	10.45	0.00014	CU M/MI	-1.24905	CU M
SP1		08.24.2004	10.5	0.00049	CU M/MI	-1.24905	CU M
SP1		08.24.2004	10.55	0.00026	CU M/MI	-1.24905	CU M
SP1		08.24.2004	11	0.00061	CU M/MI	-1.24905	CU M
SP1		08.24.2004	11.05	0.0005	CU M/MI	-1.24905	CU M
SP1		08.24.2004	11.1	0.00073	CU M/MI	-1.24905	CU M
SP1		08.24.2004	11.15	0.0007	CU M/MI	-1.24905	CU M
SP1		08.24.2004	11.2	0.00073	CU M/MI	-1.24905	CU M
SP1		08.24.2004	11.25	0.00067	CU M/MI	-1.24905	CU M
SP1		08.24.2004	11.3	0.00098	CU M/MI	-1.24905	CU M
SP1		08.24.2004	11.35	0.001	CU M/MI	-1.24905	CU M
SP1		08.24.2004	11.4	0.00108	CU M/MI	-1.2112	CU M
SP1		08.24.2004	11.45	0.00116	CU M/MI	-1.2112	CU M
SP1		08.24.2004	11.5	0.00143	CU M/MI	-1.2112	CU M
SP1		08.24.2004	11.55	0.00094	CU M/MI	-1.2112	CU M
SP1		08.24.2004	12	0.00114	CU M/MI	-1.2112	CU M
SP1		08.24.2004	12.05	0.00084	CU M/MI	-1.2112	CU M
SP1		08.24.2004	12.1	0.00085	CU M/MI	-1.2112	CU M
SP1		08.24.2004	12.15	0	CU M/MI	-0.6056	CU M
SP1		08.24.2004	12.2	0.00001	CU M/MI	-0.6056	CU M
SP1		08.24.2004	12.25	0	CU M/MI	-0.6056	CU M
SP1		08.24.2004	12.3	0	CU M/MI	-0.6056	CU M
SP1		08.24.2004	12.35	0.0001	CU M/MI	-0.6056	CU M
SP1		08.24.2004	12.4	0.00025	CU M/MI	-0.6056	CU M
SP1		08.24.2004	12.45	0.00018	CU M/MI	-0.6056	CU M
SP1		08.24.2004	12.5	0.0001	CU M/MI	-0.6056	CU M
SP1		08.24.2004	12.55	0.00013	CU M/MI	-0.6056	CU M
SP1		08.24.2004	13	0.0002	CU M/MI	-0.6056	CU M
SP1		08.24.2004	13.05	0.00029	CU M/MI	-0.6056	CU M
SP1		08.24.2004	13.1	0.00016	CU M/MI	-0.6056	CU M
SP1		08.24.2004	13.15	0.00034	CU M/MI	-0.6056	CU M
SP1		08.24.2004	13.2	0.00017	CU M/MI	-0.6056	CU M
SP1		08.24.2004	13.25	0.00053	CU M/MI	-0.6056	CU M
SP1		08.24.2004	13.3	0.69	CU M/MI	-0.3785	CU M
SP1		08.24.2004	13.35	0.00109	CU M/MI	-0.3028	CU M
SP1		08.24.2004	13.4	0.00099	CU M/MI	-0.3028	CU M
SP1		08.24.2004	13.45	0.00084	CU M/MI	-0.3028	CU M
SP1		08.24.2004	13.5	0.00089	CU M/MI	-0.3028	CU M
SP1		08.24.2004	13.55	0.00096	CU M/MI	-0.26495	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1		08.24.2004	14	0.00115	CU M/MI	-0.26495	CU M
SP1		08.24.2004	14.05	0.00094	CU M/MI	-0.26495	CU M
SP1		08.24.2004	14.1	0.00106	CU M/MI	-0.26495	CU M
SP1		08.24.2004	14.15	0.00121	CU M/MI	-0.26495	CU M
SP1		08.24.2004	14.2	0.00119	CU M/MI	-0.26495	CU M
SP1		08.24.2004	14.25	0	CU M/MI	-0.26495	CU M
SP1		08.24.2004	14.3	0	CU M/MI	-0.26495	CU M
SP1		08.24.2004	14.35	0	CU M/MI	-0.26495	CU M
SP1		08.24.2004	14.4	0	CU M/MI	-0.26495	CU M
SP1		08.24.2004	14.45	0	CU M/MI	-0.26495	CU M
SP1		08.24.2004	14.5	0	CU M/MI	-0.26495	CU M
SP1		08.24.2004	14.55	0.00008	CU M/MI	-0.26495	CU M
SP1		08.24.2004	15	0	CU M/MI	-0.26495	CU M
SP1		08.24.2004	15.05	0	CU M/MI	-0.26495	CU M
SP1		08.24.2004	15.1	0	CU M/MI	-0.3028	CU M
SP1		08.24.2004	15.15	0	CU M/MI	-0.3028	CU M
SP1		08.24.2004	15.2	0	CU M/MI	-0.03785	CU M
SP1		08.24.2004	15.25	0	CU M/MI	1.7411	CU M
SP1		08.24.2004	15.3	0.00012	CU M/MI	1.7411	CU M
SP1		08.24.2004	15.35	0.00007	CU M/MI	1.7411	CU M
SP1		08.24.2004	15.4	0	CU M/MI	1.6654	CU M
SP1		08.24.2004	15.45	0.00046	CU M/MI	1.62755	CU M
SP1		08.24.2004	15.5	0.00032	CU M/MI	1.62755	CU M
SP1		08.24.2004	15.55	0.00022	CU M/MI	1.62755	CU M
SP1		08.24.2004	16	0.00021	CU M/MI	1.62755	CU M
SP1		08.24.2004	16.05	0.00038	CU M/MI	1.62755	CU M
SP1		08.24.2004	16.1	0.00046	CU M/MI	1.62755	CU M
SP1		08.24.2004	16.15	0.00026	CU M/MI	1.62755	CU M
SP1		08.24.2004	16.2	0	CU M/MI	1.62755	CU M
SP1		08.24.2004	16.25	0.00027	CU M/MI	1.62755	CU M
SP1		08.24.2004	16.3	0.0003	CU M/MI	1.62755	CU M
SP1		08.24.2004	16.35	0.00043	CU M/MI	1.62755	CU M
SP1		08.24.2004	16.4	0.0002	CU M/MI	1.62755	CU M
SP1		08.24.2004	16.45	0.00286	CU M/MI	1.62755	CU M
SP1		08.24.2004	16.5	0.00191	CU M/MI	1.6654	CU M
SP1		08.24.2004	16.55	0.00299	CU M/MI	1.6654	CU M
SP1		08.24.2004	17	0.00343	CU M/MI	1.6654	CU M
SP1		08.24.2004	17.05	0.00008	CU M/MI	2.38455	CU M
SP1		08.24.2004	17.1	0.00107	CU M/MI	2.38455	CU M
SP1		08.24.2004	17.15	0.00055	CU M/MI	2.38455	CU M
SP1		08.24.2004	17.2	0.00118	CU M/MI	2.38455	CU M
SP1		08.24.2004	17.25	0.00098	CU M/MI	2.38455	CU M
SP1		08.24.2004	17.3	0.00024	CU M/MI	2.38455	CU M
SP1		08.24.2004	17.35	0.00144	CU M/MI	2.38455	CU M
SP1		08.24.2004	17.4	0.00067	CU M/MI	2.38455	CU M
SP1		08.24.2004	17.45	0.00087	CU M/MI	2.38455	CU M
SP1		08.24.2004	17.5	0.00064	CU M/MI	2.38455	CU M
SP1		08.24.2004	17.55	0.00087	CU M/MI	2.4224	CU M
SP1		08.24.2004	18	0.00076	CU M/MI	2.4224	CU M
SP1		08.24.2004	18.05	0.00107	CU M/MI	2.4224	CU M
SP1		08.24.2004	18.1	0.00098	CU M/MI	2.4224	CU M
SP1		08.24.2004	18.15	0.00069	CU M/MI	2.4224	CU M
SP1		08.24.2004	18.2	0.0008	CU M/MI	2.4224	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1		08.24.2004	18.25	0.00069	CU M/MI	2.4224	CU M
SP1		08.24.2004	18.3	1.16483	CU M/MI	2.4981	CU M
SP1		08.24.2004	18.35	0	CU M/MI	3.59575	CU M
SP1		08.24.2004	18.4	0.00065	CU M/MI	3.6336	CU M
SP1		08.24.2004	18.45	0.00036	CU M/MI	3.6336	CU M
SP1		08.24.2004	18.5	0.00063	CU M/MI	3.6336	CU M
SP1		08.24.2004	18.55	0.0006	CU M/MI	3.6336	CU M
SP1		08.24.2004	19	0.00083	CU M/MI	3.6336	CU M
SP1		08.24.2004	19.05	0.0007	CU M/MI	3.6336	CU M
SP1		08.24.2004	19.1	0.00082	CU M/MI	3.6336	CU M
SP1		08.24.2004	19.15	0.00096	CU M/MI	3.6336	CU M
SP1		08.24.2004	19.2	0.00026	CU M/MI	3.6336	CU M
SP1		08.24.2004	19.25	0.00287	CU M/MI	3.785	CU M
SP1		08.24.2004	19.3	0.00029	CU M/MI	3.785	CU M
SP1		08.24.2004	19.35	0.00033	CU M/MI	3.785	CU M
SP1		08.24.2004	19.4	0.00024	CU M/MI	3.785	CU M
SP1		08.24.2004	19.45	0.00017	CU M/MI	3.785	CU M
SP1		08.24.2004	19.5	0.00014	CU M/MI	3.785	CU M
SP1		08.24.2004	19.55	0.00041	CU M/MI	3.785	CU M
SP1		08.24.2004	20	0	CU M/MI	3.82285	CU M
SP1		08.24.2004	20.05	0	CU M/MI	3.97425	CU M
SP1		08.24.2004	20.1	0	CU M/MI	3.97425	CU M
SP1		08.24.2004	20.15	0.0004	CU M/MI	3.97425	CU M
SP1		08.24.2004	20.2	0.00036	CU M/MI	3.97425	CU M
SP1		08.24.2004	20.25	0.00052	CU M/MI	3.97425	CU M
SP1		08.24.2004	20.3	0.00021	CU M/MI	4.0121	CU M
SP1		08.24.2004	20.35	0.00058	CU M/MI	4.0121	CU M
SP1		08.24.2004	20.4	0.00025	CU M/MI	4.0121	CU M
SP1		08.24.2004	20.45	0.00058	CU M/MI	4.0121	CU M
SP1		08.24.2004	20.5	0.00049	CU M/MI	4.0121	CU M
SP1		08.24.2004	20.55	0.00032	CU M/MI	4.0121	CU M
SP1		08.24.2004	21	0	CU M/MI	4.1635	CU M
SP1		08.24.2004	21.05	0	CU M/MI	4.20135	CU M
SP1		08.24.2004	21.1	0.00055	CU M/MI	4.20135	CU M
SP1		08.24.2004	21.15	0.0007	CU M/MI	4.20135	CU M
SP1		08.24.2004	21.2	0.00052	CU M/MI	4.20135	CU M
SP1		08.24.2004	21.25	0.00028	CU M/MI	4.20135	CU M
SP1		08.24.2004	21.3	0.00071	CU M/MI	4.20135	CU M
SP1		08.24.2004	21.35	0.00038	CU M/MI	4.2392	CU M
SP1		08.24.2004	21.4	0.00038	CU M/MI	4.2392	CU M
SP1		08.24.2004	21.45	0.00045	CU M/MI	4.2392	CU M
SP1		08.24.2004	21.5	0.00045	CU M/MI	4.2392	CU M
SP1		08.24.2004	21.55	0.00077	CU M/MI	4.2392	CU M
SP1		08.24.2004	22	0.00057	CU M/MI	4.2392	CU M
SP1		08.24.2004	22.05	0.00059	CU M/MI	4.2392	CU M
SP1		08.24.2004	22.1	0.00007	CU M/MI	4.65555	CU M
SP1		08.24.2004	22.15	0.00084	CU M/MI	4.65555	CU M
SP1		08.24.2004	22.2	0.00051	CU M/MI	4.65555	CU M
SP1		08.24.2004	22.25	0.0012	CU M/MI	4.65555	CU M
SP1		08.24.2004	22.3	0.00029	CU M/MI	4.65555	CU M
SP1		08.24.2004	22.35	0.00073	CU M/MI	4.65555	CU M
SP1		08.24.2004	22.4	0.00031	CU M/MI	4.65555	CU M
SP1		08.24.2004	22.45	0.00053	CU M/MI	4.65555	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1		08.24.2004	22.5	0.00029	CU M/MI	4.65555	CU M
SP1		08.24.2004	22.55	0.00041	CU M/MI	4.65555	CU M
SP1		08.24.2004	23	0.00021	CU M/MI	4.65555	CU M
SP1		08.24.2004	23.05	0.0003	CU M/MI	4.65555	CU M
SP1		08.24.2004	23.1	0.00037	CU M/MI	4.65555	CU M
SP1		08.24.2004	23.15	0	CU M/MI	4.95835	CU M
SP1		08.24.2004	23.2	0.00011	CU M/MI	4.95835	CU M
SP1		08.24.2004	23.25	0.00053	CU M/MI	4.95835	CU M
SP1		08.24.2004	23.3	0.00053	CU M/MI	4.95835	CU M
SP1		08.24.2004	23.35	0.00053	CU M/MI	4.95835	CU M
SP1		08.24.2004	23.4	0.00037	CU M/MI	4.95835	CU M
SP1		08.24.2004	23.45	0.00101	CU M/MI	4.9962	CU M
SP1		08.24.2004	23.5	0.00057	CU M/MI	4.9962	CU M
SP1		08.24.2004	23.55	0	CU M/MI	5.2233	CU M
SP1		08.25.2004	0	0.00144	CU M/MI	5.2233	CU M
SP1		08.25.2004	0.05	0.0011	CU M/MI	5.2233	CU M
SP1		08.25.2004	0.1	0.00318	CU M/MI	5.26115	CU M
SP1		08.25.2004	0.15	0.00094	CU M/MI	5.26115	CU M
SP1		08.25.2004	0.2	0.00125	CU M/MI	5.26115	CU M
SP1		08.25.2004	0.25	0.00082	CU M/MI	5.26115	CU M
SP1		08.25.2004	0.3	0.00044	CU M/MI	5.26115	CU M
SP1		08.25.2004	0.35	0.00087	CU M/MI	5.26115	CU M
SP1		08.25.2004	0.4	0.00068	CU M/MI	5.26115	CU M
SP1		08.25.2004	0.45	0.00069	CU M/MI	5.299	CU M
SP1		08.25.2004	0.5	0.00067	CU M/MI	5.299	CU M
SP1		08.25.2004	0.55	0.00089	CU M/MI	5.299	CU M
SP1		08.25.2004	1	0	CU M/MI	5.56395	CU M
SP1		08.25.2004	1.05	0.00081	CU M/MI	5.5261	CU M
SP1		08.25.2004	1.1	0.0009	CU M/MI	5.5261	CU M
SP1		08.25.2004	1.15	0.00089	CU M/MI	5.56395	CU M
SP1		08.25.2004	1.2	0	CU M/MI	5.7532	CU M
SP1		08.25.2004	1.25	0.0014	CU M/MI	5.7532	CU M
SP1		08.25.2004	1.3	0.00118	CU M/MI	5.7532	CU M
SP1		08.25.2004	1.35	0.00077	CU M/MI	5.7532	CU M
SP1		08.25.2004	1.4	0.00108	CU M/MI	5.7532	CU M
SP1		08.25.2004	1.45	0.0011	CU M/MI	5.79105	CU M
SP1		08.25.2004	1.5	0.00105	CU M/MI	5.79105	CU M
SP1		08.25.2004	1.55	0	CU M/MI	5.9046	CU M
SP1		08.25.2004	2	0	CU M/MI	5.8289	CU M
SP1		08.25.2004	2.05	0.72885	CU M/MI	8.89475	CU M
SP1		08.25.2004	2.1	0.71431	CU M/MI	12.52835	CU M
SP1		08.25.2004	2.15	0.70385	CU M/MI	16.08625	CU M
SP1		08.25.2004	2.2	0.69055	CU M/MI	19.56845	CU M
SP1		08.25.2004	2.25	0.68064	CU M/MI	22.97495	CU M
SP1		08.25.2004	2.3	0.67105	CU M/MI	26.38145	CU M
SP1		08.25.2004	2.35	0.00064	CU M/MI	26.8735	CU M
SP1		08.25.2004	2.4	0.00074	CU M/MI	26.8735	CU M
SP1		08.25.2004	2.45	0.00098	CU M/MI	26.8735	CU M
SP1		08.25.2004	2.5	0.00058	CU M/MI	26.8735	CU M
SP1		08.25.2004	2.55	0.00108	CU M/MI	26.98705	CU M
SP1		08.25.2004	3	0.00054	CU M/MI	26.98705	CU M
SP1		08.25.2004	3.05	0.00109	CU M/MI	26.98705	CU M
SP1		08.25.2004	3.1	0.00059	CU M/MI	26.98705	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1		08.25.2004	3.15	0.00076	CU M/MI	26.98705	CU M
SP1		08.25.2004	3.2	0.00046	CU M/MI	26.98705	CU M
SP1		08.25.2004	3.25	0.00099	CU M/MI	26.98705	CU M
SP1		08.25.2004	3.3	0.00095	CU M/MI	26.98705	CU M
SP1		08.25.2004	3.35	0.00067	CU M/MI	26.98705	CU M
SP1		08.25.2004	3.4	0.00051	CU M/MI	26.98705	CU M
SP1		08.25.2004	3.45	0.00075	CU M/MI	27.0249	CU M
SP1		08.25.2004	3.5	0.00078	CU M/MI	27.0249	CU M
SP1		08.25.2004	3.55	0.00077	CU M/MI	27.0249	CU M
SP1		08.25.2004	4	0.00084	CU M/MI	27.0249	CU M
SP1		08.25.2004	4.05	0.00103	CU M/MI	27.0249	CU M
SP1		08.25.2004	4.1	0.00049	CU M/MI	27.0249	CU M
SP1		08.25.2004	4.15	0.00067	CU M/MI	27.0249	CU M
SP1		08.25.2004	4.2	0.00061	CU M/MI	27.0249	CU M
SP1		08.25.2004	4.25	0.00053	CU M/MI	27.0249	CU M
SP1		08.25.2004	4.3	0.00066	CU M/MI	27.06275	CU M
SP1		08.25.2004	4.35	0.00066	CU M/MI	27.06275	CU M
SP1		08.25.2004	4.4	0.0007	CU M/MI	27.06275	CU M
SP1		08.25.2004	4.45	0.0004	CU M/MI	27.06275	CU M
SP1		08.25.2004	4.5	0.00053	CU M/MI	27.06275	CU M
SP1		08.25.2004	4.55	0.00041	CU M/MI	27.06275	CU M
SP1		08.25.2004	5	0.00027	CU M/MI	27.06275	CU M
SP1		08.25.2004	5.05	0.00007	CU M/MI	27.06275	CU M
SP1		08.25.2004	5.1	0.00028	CU M/MI	27.06275	CU M
SP1		08.25.2004	5.15	0.00042	CU M/MI	27.06275	CU M
SP1		08.25.2004	5.2	0.00007	CU M/MI	27.06275	CU M
SP1		08.25.2004	5.25	0.00026	CU M/MI	27.06275	CU M
SP1		08.25.2004	5.3	0.00061	CU M/MI	27.06275	CU M
SP1		08.25.2004	5.35	0.00026	CU M/MI	27.06275	CU M
SP1		08.25.2004	5.4	0.00027	CU M/MI	27.06275	CU M
SP1		08.25.2004	5.45	0.0005	CU M/MI	27.06275	CU M
SP1		08.25.2004	5.5	0	CU M/MI	27.06275	CU M
SP1		08.25.2004	5.55	0.00008	CU M/MI	27.06275	CU M
SP1		08.25.2004	6	0	CU M/MI	27.1763	CU M
SP1		08.25.2004	6.05	0.00051	CU M/MI	27.1763	CU M
SP1		08.25.2004	6.1	0.00035	CU M/MI	27.1763	CU M
SP1		08.25.2004	6.15	0.00057	CU M/MI	27.1763	CU M
SP1		08.25.2004	6.2	0.00038	CU M/MI	27.1763	CU M
SP1		08.25.2004	6.25	0.00086	CU M/MI	27.1763	CU M
SP1		08.25.2004	6.3	0.00047	CU M/MI	27.1763	CU M
SP1		08.25.2004	6.35	0.00029	CU M/MI	27.1763	CU M
SP1		08.25.2004	6.4	0.00073	CU M/MI	27.1763	CU M
SP1		08.25.2004	6.45	0	CU M/MI	27.28985	CU M
SP1		08.25.2004	6.5	0.0003	CU M/MI	27.36555	CU M
SP1		08.25.2004	6.55	0.00042	CU M/MI	27.36555	CU M
SP1		08.25.2004	7	0.00044	CU M/MI	27.36555	CU M
SP1		08.25.2004	7.05	0.00021	CU M/MI	27.36555	CU M
SP1		08.25.2004	7.1	0.00031	CU M/MI	27.36555	CU M
SP1		08.25.2004	7.15	0.00023	CU M/MI	27.36555	CU M
SP1		08.25.2004	7.2	0.00028	CU M/MI	27.36555	CU M
SP1		08.25.2004	7.25	0.0003	CU M/MI	27.36555	CU M
SP1		08.25.2004	7.3	0.00051	CU M/MI	27.4034	CU M
SP1		08.25.2004	7.35	0.00067	CU M/MI	27.4034	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1		08.25.2004	7.4	0.00045	CU M/MI	27.4034	CU M
SP1		08.25.2004	7.45	0	CU M/MI	27.5548	CU M
SP1		08.25.2004	7.5	0.00001	CU M/MI	27.59265	CU M
SP1		08.25.2004	7.55	0.00041	CU M/MI	27.59265	CU M
SP1		08.25.2004	8	0.00027	CU M/MI	27.59265	CU M
SP1		08.25.2004	8.05	0.00045	CU M/MI	27.59265	CU M
SP1		08.25.2004	8.1	0.00055	CU M/MI	27.59265	CU M
SP1		08.25.2004	8.15	0.00064	CU M/MI	27.59265	CU M
SP1		08.25.2004	8.2	0.00049	CU M/MI	27.59265	CU M
SP1		08.25.2004	8.25	0.00077	CU M/MI	27.59265	CU M
SP1		08.25.2004	8.3	0.00067	CU M/MI	27.59265	CU M
SP1		08.25.2004	8.35	0.00115	CU M/MI	27.6305	CU M
SP1		08.25.2004	8.4	0	CU M/MI	27.9333	CU M
SP1		08.25.2004	8.45	0.00146	CU M/MI	27.9333	CU M
SP1		08.25.2004	8.5	0.00141	CU M/MI	27.9333	CU M
SP1		08.25.2004	8.55	0.00152	CU M/MI	27.9333	CU M
SP1		08.25.2004	9	0.00139	CU M/MI	27.97115	CU M
SP1		08.25.2004	9.05	0.00235	CU M/MI	27.97115	CU M
SP1		08.25.2004	9.1	0.00228	CU M/MI	27.97115	CU M
SP1		08.25.2004	9.15	0.00229	CU M/MI	28.009	CU M
SP1		08.25.2004	9.2	0.00231	CU M/MI	28.009	CU M
SP1		08.25.2004	9.5	0.00001	CU M/MI	28.19825	CU M
SP1		08.25.2004	9.55	0	CU M/MI	28.19825	CU M
SP1		08.25.2004	10	0	CU M/MI	28.19825	CU M
SP1		08.25.2004	10.05	0.00033	CU M/MI	28.19825	CU M
SP1		08.25.2004	10.1	0.00028	CU M/MI	28.19825	CU M
SP1		08.25.2004	10.15	0.00029	CU M/MI	28.19825	CU M
SP1		08.25.2004	10.2	0	CU M/MI	28.19825	CU M
SP1		08.25.2004	10.25	0	CU M/MI	28.19825	CU M
SP1		08.25.2004	10.3	0.00015	CU M/MI	28.19825	CU M
SP1		08.25.2004	10.35	0.00019	CU M/MI	28.19825	CU M
SP1		08.25.2004	10.4	0.00036	CU M/MI	28.19825	CU M
SP1		08.25.2004	10.45	0.00016	CU M/MI	28.19825	CU M
SP1		08.25.2004	10.5	0.00032	CU M/MI	28.19825	CU M
SP1		08.25.2004	10.55	0.00002	CU M/MI	28.19825	CU M
SP1		08.25.2004	11	0.00017	CU M/MI	28.19825	CU M
SP1		08.25.2004	11.05	0.00029	CU M/MI	28.19825	CU M
SP1		08.25.2004	11.1	0	CU M/MI	28.19825	CU M
SP1		08.25.2004	11.15	0.00019	CU M/MI	28.19825	CU M
SP1		08.25.2004	11.2	0	CU M/MI	28.19825	CU M
SP1		08.25.2004	11.25	0.00038	CU M/MI	28.27395	CU M
SP1		08.25.2004	11.3	0	CU M/MI	28.27395	CU M
SP1		08.25.2004	11.35	0.00032	CU M/MI	28.27395	CU M
SP1		08.25.2004	11.4	0	CU M/MI	28.27395	CU M
SP1		08.25.2004	11.45	0.0002	CU M/MI	28.27395	CU M
SP1		08.25.2004	11.5	0	CU M/MI	28.27395	CU M
SP1		08.25.2004	11.55	0.00025	CU M/MI	28.27395	CU M
SP1		08.25.2004	12	0.00018	CU M/MI	28.27395	CU M
SP1		08.25.2004	12.05	0.00036	CU M/MI	28.27395	CU M
SP1		08.25.2004	12.1	0.00042	CU M/MI	28.27395	CU M
SP1		08.25.2004	12.15	0.00015	CU M/MI	28.27395	CU M
SP1		08.25.2004	12.2	0	CU M/MI	28.27395	CU M
SP1		08.25.2004	12.25	0.00026	CU M/MI	28.27395	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1		08.25.2004	12.3	0	CU M/MI	28.27395	CU M
SP1		08.25.2004	12.35	0	CU M/MI	28.50105	CU M
SP1		08.25.2004	12.4	0.00007	CU M/MI	28.50105	CU M
SP1		08.25.2004	12.45	0.00029	CU M/MI	28.50105	CU M
SP1		08.25.2004	12.5	0.00043	CU M/MI	28.50105	CU M
SP1		08.25.2004	12.55	0.00036	CU M/MI	28.50105	CU M
SP1		08.25.2004	13	0.00032	CU M/MI	28.50105	CU M
SP1		08.25.2004	13.05	0.00056	CU M/MI	28.50105	CU M
SP1		08.25.2004	13.1	0.00051	CU M/MI	28.50105	CU M
SP1		08.25.2004	13.15	0.00051	CU M/MI	28.50105	CU M
SP1		08.25.2004	13.2	0.00028	CU M/MI	28.50105	CU M
SP1		08.25.2004	13.25	0.00047	CU M/MI	28.50105	CU M
SP1		08.25.2004	13.3	0.00029	CU M/MI	28.50105	CU M
SP1		08.25.2004	13.35	0.00038	CU M/MI	28.50105	CU M
SP1		08.25.2004	13.4	0.00018	CU M/MI	28.50105	CU M
SP1		08.25.2004	13.45	0.00017	CU M/MI	28.50105	CU M
SP1		08.25.2004	13.5	0.00022	CU M/MI	28.5389	CU M
SP1		08.25.2004	13.55	0	CU M/MI	28.5389	CU M
SP1		08.25.2004	14	0.00078	CU M/MI	28.8417	CU M
SP1		08.25.2004	14.05	0	CU M/MI	28.8417	CU M
SP1		08.25.2004	14.1	0	CU M/MI	28.8417	CU M
SP1		08.25.2004	14.15	0.00006	CU M/MI	28.8417	CU M
SP1		08.25.2004	14.2	0	CU M/MI	28.8417	CU M
SP1		08.25.2004	14.25	0	CU M/MI	28.8417	CU M
SP1		08.25.2004	14.3	0.00006	CU M/MI	28.8417	CU M
SP1		08.25.2004	14.35	0	CU M/MI	28.8417	CU M
SP1		08.25.2004	14.4	0	CU M/MI	28.8417	CU M
SP1		08.25.2004	14.45	0	CU M/MI	28.8417	CU M
SP1		08.25.2004	14.5	0	CU M/MI	28.8417	CU M
SP1		08.25.2004	14.55	0	CU M/MI	28.8417	CU M
SP1		08.25.2004	15	0.00031	CU M/MI	28.8417	CU M
SP1		08.25.2004	15.05	0.00004	CU M/MI	28.8417	CU M
SP1		08.25.2004	15.1	0	CU M/MI	28.8417	CU M
SP1		08.25.2004	15.15	0	CU M/MI	29.78795	CU M
SP1		08.25.2004	15.2	0.00036	CU M/MI	29.78795	CU M
SP1		08.25.2004	15.25	0	CU M/MI	29.78795	CU M
SP1		08.25.2004	15.3	0.00056	CU M/MI	29.78795	CU M
SP1		08.25.2004	15.35	0.0006	CU M/MI	29.78795	CU M
SP1		08.25.2004	15.4	0.00068	CU M/MI	29.78795	CU M
SP1		08.25.2004	15.45	0.00041	CU M/MI	29.78795	CU M
SP1		08.25.2004	15.5	0.00055	CU M/MI	29.78795	CU M
SP1		08.25.2004	15.55	0.00049	CU M/MI	29.78795	CU M
SP1		08.25.2004	16	0.00112	CU M/MI	29.78795	CU M
SP1		08.25.2004	16.05	0.001	CU M/MI	29.78795	CU M
SP1		08.25.2004	16.1	0.00088	CU M/MI	29.8258	CU M
SP1		08.25.2004	16.15	0.00085	CU M/MI	29.8258	CU M
SP1		08.25.2004	16.25	0.00058	CU M/MI	29.8258	CU M
SP1		08.25.2004	16.3	0.00067	CU M/MI	29.8258	CU M
SP1		08.25.2004	16.35	0.00101	CU M/MI	29.8258	CU M
SP1		08.25.2004	16.4	0.00043	CU M/MI	29.8258	CU M
SP1		08.25.2004	16.45	0.00053	CU M/MI	29.8258	CU M
SP1		08.25.2004	16.5	0	CU M/MI	30.01505	CU M
SP1		08.25.2004	16.55	0.00105	CU M/MI	30.01505	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1		08.25.2004	17	0.00055	CU M/MI	30.01505	CU M
SP1		08.25.2004	17.05	0.00022	CU M/MI	30.01505	CU M
SP1		08.25.2004	17.1	0.00068	CU M/MI	30.01505	CU M
SP1		08.25.2004	17.15	0.00057	CU M/MI	30.01505	CU M
SP1		08.25.2004	17.2	0.00027	CU M/MI	30.01505	CU M
SP1		08.25.2004	17.25	0.00063	CU M/MI	30.01505	CU M
SP1		08.25.2004	17.3	0.00022	CU M/MI	30.01505	CU M
SP1		08.25.2004	17.35	0.00026	CU M/MI	30.01505	CU M
SP1		08.25.2004	17.4	0.00074	CU M/MI	30.01505	CU M
SP1		08.25.2004	17.45	0	CU M/MI	30.0529	CU M
SP1		08.25.2004	17.5	0.00032	CU M/MI	30.0529	CU M
SP1		08.25.2004	17.55	0.00013	CU M/MI	30.0529	CU M
SP1		08.25.2004	18	0.00018	CU M/MI	30.0529	CU M
SP1		08.25.2004	18.05	0.00009	CU M/MI	30.0529	CU M
SP1		08.25.2004	18.1	0.00003	CU M/MI	30.0529	CU M
SP1		08.25.2004	18.15	0	CU M/MI	30.0529	CU M
SP1		08.25.2004	18.2	0	CU M/MI	30.0529	CU M
SP1		08.25.2004	18.25	0	CU M/MI	30.0529	CU M
SP1		08.25.2004	18.3	0.0001	CU M/MI	30.0529	CU M
SP1		08.25.2004	18.35	0	CU M/MI	30.0529	CU M
SP1		08.25.2004	18.4	0.00008	CU M/MI	30.0529	CU M
SP1		08.25.2004	18.45	0	CU M/MI	30.0529	CU M
SP1		08.25.2004	18.5	0.05427	CU M/MI	30.24215	CU M
SP1		08.25.2004	18.55	0	CU M/MI	30.28	CU M
SP1		08.25.2004	19	0.00017	CU M/MI	30.28	CU M
SP1		08.25.2004	19.05	0	CU M/MI	30.28	CU M
SP1		08.25.2004	19.1	0	CU M/MI	30.28	CU M
SP1		08.25.2004	19.15	0	CU M/MI	30.28	CU M
SP1		08.25.2004	19.2	0	CU M/MI	30.28	CU M
SP1		08.25.2004	19.25	0	CU M/MI	30.28	CU M
SP1		08.25.2004	19.3	0.00004	CU M/MI	30.28	CU M
SP1		08.25.2004	19.35	0	CU M/MI	30.28	CU M
SP1		08.25.2004	19.4	0	CU M/MI	30.28	CU M
SP1		08.25.2004	19.45	0.00192	CU M/MI	30.4314	CU M
SP1		08.25.2004	19.5	0	CU M/MI	30.4314	CU M
SP1		08.25.2004	19.55	0	CU M/MI	30.4314	CU M
SP1		08.25.2004	20	0	CU M/MI	30.4314	CU M
SP1		08.25.2004	20.05	0	CU M/MI	30.4314	CU M
SP1		08.25.2004	20.1	0	CU M/MI	30.4314	CU M
SP1		08.25.2004	20.15	0	CU M/MI	30.4314	CU M
SP1		08.25.2004	20.2	0	CU M/MI	30.4314	CU M
SP1		08.25.2004	20.25	0	CU M/MI	30.4314	CU M
SP1		08.25.2004	20.3	0	CU M/MI	30.54495	CU M
SP1		08.25.2004	20.35	0	CU M/MI	30.54495	CU M
SP1		08.25.2004	20.4	0	CU M/MI	30.54495	CU M
SP1		08.25.2004	20.45	0	CU M/MI	30.54495	CU M
SP1		08.25.2004	20.5	0	CU M/MI	30.54495	CU M
SP1		08.25.2004	20.55	0	CU M/MI	30.54495	CU M
SP1		08.25.2004	21	0	CU M/MI	30.54495	CU M
SP1		08.25.2004	21.05	0	CU M/MI	30.54495	CU M
SP1		08.25.2004	21.1	0	CU M/MI	30.54495	CU M
SP1		08.26.2004	11.3	0	CU M/MI	30.5071	CU M
SP1		08.26.2004	11.4	0	CU M/MI	30.5071	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1		08.26.2004	11.45	0.04026	CU M/MI	30.69635	CU M
SP1		08.26.2004	11.5	0	CU M/MI	30.69635	CU M
SP1		08.26.2004	11.55	0	CU M/MI	30.69635	CU M
SP1		08.26.2004	12	0	CU M/MI	30.69635	CU M
SP1		08.26.2004	12.05	0	CU M/MI	30.6585	CU M
SP1		08.26.2004	12.1	0	CU M/MI	30.6585	CU M
SP1		08.26.2004	12.15	0	CU M/MI	30.6585	CU M
SP1		08.26.2004	12.2	0	CU M/MI	30.6585	CU M
SP1		08.26.2004	12.25	0	CU M/MI	30.9613	CU M
SP1		08.26.2004	12.3	2.3868	CU M/MI	37.093	CU M
SP1		08.26.2004	12.35	0	CU M/MI	41.74855	CU M
SP1		08.26.2004	12.4	0	CU M/MI	41.74855	CU M
SP1		08.26.2004	12.45	0	CU M/MI	41.74855	CU M
SP1		08.26.2004	12.5	0	CU M/MI	41.74855	CU M
SP1		08.26.2004	12.55	0	CU M/MI	41.7107	CU M
SP1		08.26.2004	13	0	CU M/MI	41.7107	CU M
SP1		08.26.2004	13.05	0	CU M/MI	41.7107	CU M
SP1		08.26.2004	13.1	0	CU M/MI	41.7107	CU M
SP1		08.26.2004	13.15	0	CU M/MI	41.7864	CU M
SP1		08.26.2004	13.2	0	CU M/MI	41.7864	CU M
SP1		08.26.2004	13.25	0	CU M/MI	41.7864	CU M
SP1		08.26.2004	13.3	0	CU M/MI	41.7864	CU M
SP1		08.26.2004	13.35	0	CU M/MI	41.7864	CU M
SP1		08.26.2004	13.4	0	CU M/MI	41.74855	CU M
SP1		08.26.2004	13.45	0	CU M/MI	41.74855	CU M
SP1		08.26.2004	13.5	0	CU M/MI	41.74855	CU M
SP1		08.26.2004	13.55	0	CU M/MI	41.74855	CU M
SP1		08.26.2004	14	0	CU M/MI	41.74855	CU M
SP1		08.26.2004	14.05	0	CU M/MI	41.9378	CU M
SP1		08.26.2004	14.1	0	CU M/MI	41.9378	CU M
SP1		08.26.2004	14.15	0	CU M/MI	41.9378	CU M
SP1		08.26.2004	14.2	0	CU M/MI	41.9378	CU M
SP1		08.26.2004	14.25	0	CU M/MI	41.9378	CU M
SP1		08.26.2004	14.3	0	CU M/MI	41.9378	CU M
SP1		08.26.2004	14.35	0	CU M/MI	41.9378	CU M
SP1		08.26.2004	14.4	0	CU M/MI	41.9378	CU M
SP1		08.26.2004	14.45	0	CU M/MI	41.9378	CU M
SP1		08.26.2004	14.5	0	CU M/MI	41.9378	CU M
SP1		08.26.2004	14.55	0	CU M/MI	41.89995	CU M
SP1		08.26.2004	15	0	CU M/MI	41.89995	CU M
SP1		08.26.2004	15.05	0	CU M/MI	42.0892	CU M
SP1		08.26.2004	15.1	0	CU M/MI	42.0892	CU M
SP1		08.26.2004	15.15	0	CU M/MI	42.0892	CU M
SP1		08.26.2004	15.2	0	CU M/MI	42.0892	CU M
SP1		08.26.2004	15.25	0	CU M/MI	42.0892	CU M
SP1		08.26.2004	15.3	0	CU M/MI	42.0892	CU M
SP1		08.26.2004	15.35	0	CU M/MI	42.0892	CU M
SP1		08.26.2004	15.4	0	CU M/MI	42.0892	CU M
SP1		08.26.2004	15.45	0	CU M/MI	42.20275	CU M
SP1		08.26.2004	15.5	0	CU M/MI	42.20275	CU M
SP1		08.26.2004	15.55	0.00016	CU M/MI	42.20275	CU M
SP1		08.26.2004	16	0	CU M/MI	42.20275	CU M
SP1		08.26.2004	16.05	0	CU M/MI	42.20275	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1		08.26.2004	16.1	0	CU M/MI	42.20275	CU M
SP1		08.26.2004	16.15	0	CU M/MI	42.20275	CU M
SP1		08.26.2004	16.2	0.00002	CU M/MI	42.20275	CU M
SP1		08.26.2004	16.25	0	CU M/MI	42.20275	CU M
SP1		08.26.2004	16.3	0.00014	CU M/MI	42.20275	CU M
SP1		08.26.2004	16.35	0	CU M/MI	42.20275	CU M
SP1		08.26.2004	16.4	0.00019	CU M/MI	42.20275	CU M
SP1		08.26.2004	16.45	0	CU M/MI	42.2406	CU M
SP1		08.26.2004	16.5	0	CU M/MI	42.2406	CU M
SP1		08.26.2004	16.55	0	CU M/MI	42.2406	CU M
SP1		08.26.2004	17	0	CU M/MI	42.20275	CU M
SP1		08.26.2004	17.05	0	CU M/MI	42.20275	CU M
SP1		08.26.2004	17.1	0	CU M/MI	42.20275	CU M
SP1		08.26.2004	17.15	0	CU M/MI	42.20275	CU M
SP1		08.26.2004	17.2	0	CU M/MI	42.20275	CU M
SP1		08.26.2004	17.25	0	CU M/MI	42.20275	CU M
SP1		08.26.2004	17.3	0	CU M/MI	42.20275	CU M
SP1		08.26.2004	17.35	0	CU M/MI	42.20275	CU M
SP1		08.26.2004	17.4	0	CU M/MI	42.2406	CU M
SP1		08.26.2004	17.45	0	CU M/MI	42.2406	CU M
SP1		08.26.2004	17.5	0	CU M/MI	42.2406	CU M
SP1		08.26.2004	17.55	0	CU M/MI	42.2406	CU M
SP1		08.26.2004	18	0	CU M/MI	42.2406	CU M
SP1		08.26.2004	18.05	0	CU M/MI	42.2406	CU M
SP1		08.26.2004	18.1	0	CU M/MI	42.2406	CU M
SP1		08.26.2004	18.15	0	CU M/MI	42.2406	CU M
SP1		08.26.2004	18.2	0.00579	CU M/MI	42.12705	CU M
SP1		08.26.2004	18.25	0.0307	CU M/MI	42.12705	CU M
SP1		08.26.2004	18.3	0	CU M/MI	42.0892	CU M
SP1		08.26.2004	18.35	0	CU M/MI	42.20275	CU M
SP1		08.26.2004	18.4	0	CU M/MI	42.20275	CU M
SP1		08.26.2004	18.45	0.01562	CU M/MI	42.1649	CU M
SP1		08.26.2004	18.5	0.02245	CU M/MI	42.1649	CU M
SP1		08.26.2004	18.55	0.00211	CU M/MI	42.1649	CU M
SP1		08.26.2004	19	0.00778	CU M/MI	42.1649	CU M
SP1		08.26.2004	19.05	0	CU M/MI	42.1649	CU M
SP1		08.26.2004	19.1	0.0114	CU M/MI	42.1649	CU M
SP1		08.26.2004	19.15	0	CU M/MI	42.1649	CU M
SP1		08.26.2004	19.2	0	CU M/MI	42.12705	CU M
SP1		08.26.2004	19.25	0	CU M/MI	42.12705	CU M
SP1		08.26.2004	19.3	0.00633	CU M/MI	42.12705	CU M
SP1		08.26.2004	19.35	0.01088	CU M/MI	42.1649	CU M
SP1		08.26.2004	19.4	0.00052	CU M/MI	42.12705	CU M
SP1		08.26.2004	19.45	0	CU M/MI	42.12705	CU M
SP1		08.26.2004	19.5	0	CU M/MI	42.12705	CU M
SP1		08.26.2004	19.55	0.12682	CU M/MI	42.12705	CU M
SP1		08.26.2004	20	0.0009	CU M/MI	42.12705	CU M
SP1		08.26.2004	20.05	0	CU M/MI	42.12705	CU M
SP1		08.26.2004	20.1	0.01787	CU M/MI	42.12705	CU M
SP1		08.26.2004	20.15	0	CU M/MI	42.12705	CU M
SP1		08.26.2004	20.2	0.00436	CU M/MI	42.0892	CU M
SP1		08.26.2004	20.25	0.02881	CU M/MI	42.0892	CU M
SP1		08.26.2004	20.3	0	CU M/MI	42.0892	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1		08.26.2004	20.35	0	CU M/MI	42.0892	CU M
SP1		08.26.2004	20.4	0	CU M/MI	42.0892	CU M
SP1		08.26.2004	20.45	0	CU M/MI	42.0892	CU M
SP1		08.26.2004	20.5	0	CU M/MI	42.0892	CU M
SP1		08.26.2004	20.55	0	CU M/MI	42.0892	CU M
SP1		08.26.2004	21	0.003	CU M/MI	42.0892	CU M
SP1		08.26.2004	21.05	0.00107	CU M/MI	42.0892	CU M
SP1		08.26.2004	21.1	0.0002	CU M/MI	42.0892	CU M
SP1		08.26.2004	21.15	0	CU M/MI	42.05135	CU M
SP1		08.26.2004	21.2	0	CU M/MI	42.05135	CU M
SP1		08.26.2004	21.25	0.01011	CU M/MI	42.05135	CU M
SP1		08.26.2004	21.3	0.05738	CU M/MI	42.05135	CU M
SP1		08.26.2004	21.35	0	CU M/MI	42.05135	CU M
SP1		08.26.2004	21.4	0.01702	CU M/MI	42.05135	CU M
SP1		08.26.2004	21.45	0	CU M/MI	42.05135	CU M
SP1		08.26.2004	21.5	0	CU M/MI	42.05135	CU M
SP1		08.26.2004	21.55	0.00438	CU M/MI	42.0135	CU M
SP1		08.26.2004	22	0.00184	CU M/MI	42.0135	CU M
SP1		08.26.2004	22.05	0	CU M/MI	42.05135	CU M
SP1		08.26.2004	22.1	0	CU M/MI	42.0135	CU M
SP1		08.26.2004	22.15	0	CU M/MI	42.0135	CU M
SP1		08.26.2004	22.2	0	CU M/MI	42.0135	CU M
SP1		08.26.2004	22.25	0	CU M/MI	42.0135	CU M
SP1		08.26.2004	22.3	0.02054	CU M/MI	42.0135	CU M
SP1		08.26.2004	22.35	0.05997	CU M/MI	42.0135	CU M
SP1		08.26.2004	22.4	0.00002	CU M/MI	42.0135	CU M
SP1		08.26.2004	22.45	0	CU M/MI	42.0135	CU M
SP1		08.26.2004	22.5	0.01453	CU M/MI	42.0135	CU M
SP1		08.26.2004	22.55	0.01162	CU M/MI	42.0135	CU M
SP1		08.26.2004	23	0	CU M/MI	42.0135	CU M
SP1		08.26.2004	23.05	0.02386	CU M/MI	41.97565	CU M
SP1		08.26.2004	23.1	0	CU M/MI	42.0135	CU M
SP1		08.26.2004	23.15	0.00008	CU M/MI	42.0135	CU M
SP1		08.26.2004	23.2	0	CU M/MI	41.97565	CU M
SP1		08.26.2004	23.25	0	CU M/MI	41.97565	CU M
SP1		08.26.2004	23.3	0	CU M/MI	41.97565	CU M
SP1		08.26.2004	23.35	0.00692	CU M/MI	42.0135	CU M
SP1		08.26.2004	23.4	0	CU M/MI	41.97565	CU M
SP1		08.26.2004	23.45	0	CU M/MI	41.97565	CU M
SP1		08.26.2004	23.5	0.03934	CU M/MI	41.97565	CU M
SP1		08.26.2004	23.55	0.00402	CU M/MI	41.97565	CU M
SP1		08.27.2004	0	0.00054	CU M/MI	41.97565	CU M
SP1		08.27.2004	0.05	0.01998	CU M/MI	41.97565	CU M
SP1		08.27.2004	0.1	0.01613	CU M/MI	41.97565	CU M
SP1		08.27.2004	0.15	0	CU M/MI	41.97565	CU M
SP1		08.27.2004	0.2	0.04534	CU M/MI	41.97565	CU M
SP1		08.27.2004	0.25	0	CU M/MI	41.97565	CU M
SP1		08.27.2004	0.3	0	CU M/MI	41.97565	CU M
SP1		08.27.2004	0.35	0.15484	CU M/MI	41.97565	CU M
SP1		08.27.2004	0.4	0	CU M/MI	41.97565	CU M
SP1		08.27.2004	0.45	0.00006	CU M/MI	41.97565	CU M
SP1		08.27.2004	0.5	0	CU M/MI	41.97565	CU M
SP1		08.27.2004	0.55	0	CU M/MI	41.97565	CU M

Appendix B
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1		08.27.2004	1	0.00035	CU M/MI	41.9378	CU M
SP1		08.27.2004	1.05	0.05208	CU M/MI	41.9378	CU M
SP1		08.27.2004	1.1	0.00493	CU M/MI	41.9378	CU M
SP1		08.27.2004	1.15	0	CU M/MI	41.97565	CU M
SP1		08.27.2004	1.2	0	CU M/MI	41.97565	CU M
SP1		08.27.2004	1.25	0.01271	CU M/MI	41.97565	CU M
SP1		08.27.2004	1.3	0	CU M/MI	41.9378	CU M
SP1		08.27.2004	1.35	0	CU M/MI	41.9378	CU M
SP1		08.27.2004	1.4	0.03148	CU M/MI	41.9378	CU M
SP1		08.27.2004	1.45	0.00054	CU M/MI	41.9378	CU M
SP1		08.27.2004	1.5	0.00097	CU M/MI	41.9378	CU M
SP1		08.27.2004	1.55	0.1251	CU M/MI	41.9378	CU M
SP1		08.27.2004	2	0	CU M/MI	41.9378	CU M
SP1		08.27.2004	2.05	0.0049	CU M/MI	41.9378	CU M
SP1		08.27.2004	2.1	0.00109	CU M/MI	41.9378	CU M
SP1		08.27.2004	2.15	0	CU M/MI	41.9378	CU M
SP1		08.27.2004	2.2	0.00818	CU M/MI	41.9378	CU M
SP1		08.27.2004	2.25	0.00168	CU M/MI	41.9378	CU M
SP1		08.27.2004	2.3	0.00799	CU M/MI	41.9378	CU M
SP1		08.27.2004	2.35	0.00988	CU M/MI	41.9378	CU M
SP1		08.27.2004	2.4	0.00638	CU M/MI	41.89995	CU M
SP1		08.27.2004	2.45	0	CU M/MI	41.89995	CU M
SP1		08.27.2004	2.5	0.1101	CU M/MI	41.89995	CU M
SP1		08.27.2004	2.55	0.01501	CU M/MI	41.9378	CU M
SP1		08.27.2004	3	0.02517	CU M/MI	41.9378	CU M
SP1		08.27.2004	3.05	0.04412	CU M/MI	41.9378	CU M
SP1		08.27.2004	3.1	0	CU M/MI	41.9378	CU M
SP1		08.27.2004	3.15	0.02521	CU M/MI	41.9378	CU M
SP1		08.27.2004	3.2	0	CU M/MI	41.9378	CU M
SP1		08.27.2004	3.25	0	CU M/MI	41.9378	CU M
SP1		08.27.2004	3.3	0	CU M/MI	41.9378	CU M
SP1		08.27.2004	3.35	0.0576	CU M/MI	41.9378	CU M
SP1		08.27.2004	3.4	0	CU M/MI	41.9378	CU M
SP1		08.27.2004	3.45	0.06983	CU M/MI	41.9378	CU M
SP1		08.27.2004	3.5	0	CU M/MI	41.97565	CU M
SP1		08.27.2004	3.55	0.20108	CU M/MI	41.97565	CU M
SP1		08.27.2004	4	0.22492	CU M/MI	41.97565	CU M
SP1		08.27.2004	4.05	0.11633	CU M/MI	41.97565	CU M
SP1		08.27.2004	4.1	0.13323	CU M/MI	41.97565	CU M
SP1		08.27.2004	4.15	0.01682	CU M/MI	41.97565	CU M
SP1		08.27.2004	4.2	0	CU M/MI	41.97565	CU M
SP1		08.27.2004	4.25	0.13412	CU M/MI	42.0135	CU M
SP1		08.27.2004	4.3	0	CU M/MI	42.0135	CU M
SP1		08.27.2004	4.35	0.01844	CU M/MI	42.0135	CU M
SP1		08.27.2004	4.4	0.10081	CU M/MI	42.0135	CU M
SP1		08.27.2004	4.45	0	CU M/MI	42.05135	CU M
SP1		08.27.2004	4.5	0.027	CU M/MI	42.05135	CU M
SP1		08.27.2004	4.55	0	CU M/MI	42.05135	CU M
SP1		08.27.2004	5	0	CU M/MI	42.05135	CU M
SP1		08.27.2004	5.05	0.04644	CU M/MI	42.0892	CU M
SP1		08.27.2004	5.1	0.21202	CU M/MI	42.0892	CU M
SP1		08.27.2004	5.15	0	CU M/MI	42.12705	CU M
SP1		08.27.2004	5.2	0.11182	CU M/MI	42.0892	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1		08.27.2004	5.25	0.04715	CU M/MI	42.0892	CU M
SP1		08.27.2004	5.3	0.1033	CU M/MI	42.0892	CU M
SP1		08.27.2004	5.35	0.01556	CU M/MI	42.12705	CU M
SP1		08.27.2004	5.4	0	CU M/MI	42.12705	CU M
SP1		08.27.2004	5.45	0	CU M/MI	42.12705	CU M
SP1		08.27.2004	5.5	0	CU M/MI	42.12705	CU M
SP1		08.27.2004	5.55	0	CU M/MI	42.12705	CU M
SP1		08.27.2004	6	0	CU M/MI	42.12705	CU M
SP1		08.27.2004	6.05	0	CU M/MI	42.12705	CU M
SP1		08.27.2004	6.1	0.13891	CU M/MI	42.12705	CU M
SP1		08.27.2004	6.15	0	CU M/MI	42.1649	CU M
SP1		08.27.2004	6.2	0.03871	CU M/MI	42.1649	CU M
SP1		08.27.2004	6.25	0	CU M/MI	42.1649	CU M
SP1		08.27.2004	6.3	0.0066	CU M/MI	42.1649	CU M
SP1		08.27.2004	6.35	0.00141	CU M/MI	42.1649	CU M
SP1		08.27.2004	6.4	0	CU M/MI	42.1649	CU M
SP1		08.27.2004	6.45	0	CU M/MI	42.1649	CU M
SP1		08.27.2004	6.5	0.02899	CU M/MI	42.1649	CU M
SP1		08.27.2004	6.55	0	CU M/MI	42.1649	CU M
SP1		08.27.2004	7	0.27536	CU M/MI	42.20275	CU M
SP1		08.27.2004	7.05	0	CU M/MI	42.1649	CU M
SP1		08.27.2004	7.1	0.1926	CU M/MI	42.20275	CU M
SP1		08.27.2004	7.15	0.04495	CU M/MI	42.20275	CU M
SP1		08.27.2004	7.2	0.00402	CU M/MI	42.20275	CU M
SP1		08.27.2004	7.25	0	CU M/MI	42.20275	CU M
SP1		08.27.2004	7.3	0	CU M/MI	42.2406	CU M
SP1		08.27.2004	7.35	0	CU M/MI	42.2406	CU M
SP1		08.27.2004	7.4	0	CU M/MI	42.2406	CU M
SP1		08.27.2004	7.45	0	CU M/MI	42.2406	CU M
SP1		08.27.2004	7.5	0	CU M/MI	42.2406	CU M
SP1		08.27.2004	7.55	0	CU M/MI	42.2406	CU M
SP1		08.27.2004	8	0.00735	CU M/MI	42.27845	CU M
SP1		08.27.2004	8.05	0.02918	CU M/MI	42.2406	CU M
SP1		08.27.2004	8.1	0.14502	CU M/MI	42.27845	CU M
SP1		08.27.2004	8.15	0.16206	CU M/MI	42.27845	CU M
SP1		08.27.2004	8.2	0	CU M/MI	42.27845	CU M
SP1		08.27.2004	8.25	0.0016	CU M/MI	42.3163	CU M
SP1		08.27.2004	8.3	0.05513	CU M/MI	42.3163	CU M
SP1		08.27.2004	8.35	0	CU M/MI	42.3163	CU M
SP1		08.27.2004	8.4	0	CU M/MI	42.3163	CU M
SP1		08.27.2004	8.45	0	CU M/MI	42.35415	CU M
SP1		08.27.2004	8.5	0	CU M/MI	42.35415	CU M
SP1		08.27.2004	8.55	0	CU M/MI	42.35415	CU M
SP1		08.27.2004	9	0.01726	CU M/MI	42.35415	CU M
SP1		08.27.2004	9.05	0.02391	CU M/MI	42.35415	CU M
SP1		08.27.2004	9.1	0	CU M/MI	42.35415	CU M
SP1		08.27.2004	9.15	0	CU M/MI	42.35415	CU M
SP1		08.27.2004	9.2	0	CU M/MI	42.35415	CU M
SP1		08.27.2004	9.25	0.01306	CU M/MI	42.35415	CU M
SP1		08.27.2004	9.3	0	CU M/MI	42.35415	CU M
SP1		08.27.2004	9.35	0.11898	CU M/MI	42.392	CU M
SP1		08.27.2004	9.4	0	CU M/MI	42.392	CU M
SP1		08.27.2004	9.45	0	CU M/MI	42.392	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1		08.27.2004	9.5	0	CU M/MI	42.392	CU M
SP1		08.27.2004	9.55	0.00719	CU M/MI	42.392	CU M
SP1		08.27.2004	10	0	CU M/MI	42.50555	CU M
SP1		08.27.2004	10.05	0	CU M/MI	42.50555	CU M
SP1		08.27.2004	10.1	0	CU M/MI	42.4677	CU M
SP1		08.27.2004	10.15	0	CU M/MI	42.4677	CU M
SP1		08.27.2004	10.2	0	CU M/MI	42.4677	CU M
SP1		08.27.2004	10.25	0	CU M/MI	42.50555	CU M
SP1		08.27.2004	10.3	0	CU M/MI	42.4677	CU M
SP1		08.27.2004	10.35	0	CU M/MI	42.4677	CU M
SP1		08.27.2004	10.4	0	CU M/MI	42.4677	CU M
SP1		08.27.2004	10.45	0	CU M/MI	42.4677	CU M
SP1		08.27.2004	10.5	0	CU M/MI	42.4677	CU M
SP1		08.27.2004	10.55	0	CU M/MI	42.4677	CU M
SP1		08.27.2004	11	0	CU M/MI	42.4677	CU M
SP1		08.27.2004	11.05	0	CU M/MI	42.4677	CU M
SP1		08.27.2004	11.1	0	CU M/MI	42.4677	CU M
SP1		08.27.2004	11.15	0	CU M/MI	42.4677	CU M
SP1		08.27.2004	11.2	0	CU M/MI	42.58125	CU M
SP1		08.27.2004	11.25	0	CU M/MI	42.58125	CU M
SP1		08.27.2004	11.3	0	CU M/MI	42.58125	CU M
SP1		08.27.2004	11.5	0	CU M/MI	42.5434	CU M
SP1		08.27.2004	11.55	0	CU M/MI	42.5434	CU M
SP1		08.27.2004	12	0	CU M/MI	42.5434	CU M
SP1		08.27.2004	12.05	0	CU M/MI	42.5434	CU M
SP1		08.27.2004	12.1	0	CU M/MI	42.5434	CU M
SP1		08.27.2004	12.15	0	CU M/MI	42.58125	CU M
SP1		08.27.2004	12.2	0	CU M/MI	42.58125	CU M
SP1		08.27.2004	12.25	0	CU M/MI	42.58125	CU M
SP1		08.27.2004	12.3	0	CU M/MI	42.58125	CU M
SP1		08.27.2004	12.35	0	CU M/MI	42.58125	CU M
SP1		08.27.2004	12.4	0	CU M/MI	42.5434	CU M
SP1		08.27.2004	12.45	0	CU M/MI	42.5434	CU M
SP1		08.27.2004	12.5	0.00037	CU M/MI	42.65695	CU M
SP1		08.27.2004	12.55	0	CU M/MI	42.65695	CU M
SP1		08.27.2004	13	0	CU M/MI	42.65695	CU M
SP1		08.27.2004	13.05	0.00005	CU M/MI	42.65695	CU M
SP1		08.27.2004	13.1	0	CU M/MI	42.65695	CU M
SP1		08.27.2004	13.15	0	CU M/MI	42.65695	CU M
SP1		08.27.2004	13.2	0	CU M/MI	42.65695	CU M
SP1		08.27.2004	13.25	0	CU M/MI	42.65695	CU M
SP1		08.27.2004	13.3	0	CU M/MI	42.65695	CU M
SP1		08.27.2004	13.35	0	CU M/MI	42.65695	CU M
SP1		08.27.2004	13.4	0	CU M/MI	42.65695	CU M
SP1		08.27.2004	13.45	0	CU M/MI	42.80835	CU M
SP1		08.27.2004	13.5	0	CU M/MI	42.73265	CU M
SP1		08.27.2004	13.55	0	CU M/MI	42.73265	CU M
SP1		08.27.2004	14	0	CU M/MI	42.73265	CU M
SP1		08.27.2004	14.05	0	CU M/MI	42.73265	CU M
SP1		08.27.2004	14.1	0	CU M/MI	42.73265	CU M
SP1		08.27.2004	14.15	0	CU M/MI	42.73265	CU M
SP1		08.27.2004	14.2	0	CU M/MI	42.73265	CU M
SP1		08.27.2004	14.25	0	CU M/MI	42.73265	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1		08.27.2004	14.3	0	CU M/MI	42.9219	CU M
SP1		08.27.2004	14.35	0	CU M/MI	42.9219	CU M
SP1		08.27.2004	14.4	0	CU M/MI	42.9219	CU M
SP1		08.27.2004	14.45	0	CU M/MI	42.9219	CU M
SP1		08.27.2004	14.5	0	CU M/MI	42.9219	CU M
SP1		08.27.2004	14.55	0	CU M/MI	42.9219	CU M
SP1		08.27.2004	15	0	CU M/MI	42.9219	CU M
SP1		08.27.2004	15.05	0	CU M/MI	42.9219	CU M
SP1		08.27.2004	15.1	0	CU M/MI	43.0733	CU M
SP1		08.27.2004	15.15	0	CU M/MI	43.03545	CU M
SP1		08.27.2004	15.2	0	CU M/MI	43.03545	CU M
SP1		08.27.2004	15.25	0.00003	CU M/MI	43.03545	CU M
SP1		08.27.2004	15.3	0.00035	CU M/MI	43.03545	CU M
SP1		08.27.2004	15.35	0.00003	CU M/MI	43.03545	CU M
SP1		08.27.2004	15.4	0.00042	CU M/MI	43.03545	CU M
SP1		08.27.2004	15.45	0.00014	CU M/MI	43.03545	CU M
SP1		08.27.2004	15.5	0.00007	CU M/MI	43.03545	CU M
SP1		08.27.2004	15.55	0.00039	CU M/MI	43.03545	CU M
SP1		08.27.2004	16	0.00008	CU M/MI	43.03545	CU M
SP1		08.27.2004	16.05	0	CU M/MI	43.03545	CU M
SP1		08.27.2004	16.1	0.00006	CU M/MI	43.03545	CU M
SP1		08.27.2004	16.15	0.00019	CU M/MI	43.03545	CU M
SP1		08.27.2004	16.2	0.50223	CU M/MI	43.41395	CU M
SP1		08.27.2004	16.25	0.61432	CU M/MI	46.59335	CU M
SP1		08.27.2004	16.3	1.06398	CU M/MI	50.15125	CU M
SP1		08.27.2004	16.35	1.03899	CU M/MI	55.4124	CU M
SP1		08.27.2004	16.4	0.00562	CU M/MI	59.84085	CU M
SP1		08.27.2004	16.45	0	CU M/MI	59.84085	CU M
SP1		08.27.2004	16.5	0	CU M/MI	59.84085	CU M
SP1		08.27.2004	16.55	0	CU M/MI	59.84085	CU M
SP1		08.27.2004	17	0	CU M/MI	59.84085	CU M
SP1		08.27.2004	17.05	0	CU M/MI	59.84085	CU M
SP1		08.27.2004	17.1	0	CU M/MI	59.84085	CU M
SP1		08.27.2004	17.15	0	CU M/MI	59.84085	CU M
SP1		08.27.2004	17.2	0	CU M/MI	59.84085	CU M
SP1		08.27.2004	17.25	0	CU M/MI	59.84085	CU M
SP1		08.27.2004	17.3	0	CU M/MI	59.84085	CU M
SP1		08.27.2004	17.35	0	CU M/MI	59.803	CU M
SP1		08.27.2004	17.4	0	CU M/MI	59.803	CU M
SP1		08.27.2004	17.45	0	CU M/MI	59.803	CU M
SP1		08.27.2004	17.5	0	CU M/MI	59.803	CU M
SP1		08.27.2004	17.55	0	CU M/MI	59.9544	CU M
SP1		08.27.2004	18	0	CU M/MI	59.9544	CU M
SP1		08.27.2004	18.05	0	CU M/MI	59.9544	CU M
SP1		08.27.2004	18.1	0	CU M/MI	59.9544	CU M
SP1		08.27.2004	18.15	0	CU M/MI	59.9544	CU M
SP1		08.27.2004	18.2	0	CU M/MI	59.91655	CU M
SP1		08.27.2004	18.25	0	CU M/MI	59.91655	CU M
SP1		08.27.2004	18.3	0	CU M/MI	59.91655	CU M
SP1		08.27.2004	18.35	0	CU M/MI	59.91655	CU M
SP1		08.27.2004	18.4	0	CU M/MI	59.91655	CU M
SP1		08.27.2004	18.45	0	CU M/MI	59.91655	CU M
SP1		08.27.2004	18.5	0	CU M/MI	60.1058	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1		08.27.2004	18.55	0	CU M/MI	60.1058	CU M
SP1		08.27.2004	19	0	CU M/MI	60.1058	CU M
SP1		08.27.2004	19.05	0	CU M/MI	60.1058	CU M
SP1		08.27.2004	19.1	0	CU M/MI	60.1058	CU M
SP1		08.27.2004	19.15	0	CU M/MI	60.1058	CU M
SP1		08.27.2004	19.2	0	CU M/MI	60.1058	CU M
SP1		08.27.2004	19.25	0	CU M/MI	60.1058	CU M
SP1		08.27.2004	19.3	0	CU M/MI	60.1058	CU M
SP1		08.27.2004	19.35	0	CU M/MI	60.1058	CU M
SP1		08.27.2004	19.4	0	CU M/MI	60.06795	CU M
SP1		08.27.2004	19.45	0	CU M/MI	60.1058	CU M
SP1		08.27.2004	19.5	0	CU M/MI	60.14365	CU M
SP1		08.27.2004	19.55	0	CU M/MI	60.14365	CU M
SP1		08.27.2004	20	0	CU M/MI	60.14365	CU M
SP1		08.27.2004	20.05	0	CU M/MI	60.14365	CU M
SP1		08.27.2004	20.1	0	CU M/MI	60.14365	CU M
SP1		08.27.2004	20.15	0	CU M/MI	60.14365	CU M
SP1		08.27.2004	20.2	0.0012	CU M/MI	60.2572	CU M
SP1		08.27.2004	20.25	0	CU M/MI	60.2572	CU M
SP1		08.27.2004	20.3	0	CU M/MI	60.2572	CU M
SP1		08.27.2004	20.35	0	CU M/MI	60.2572	CU M
SP1		08.27.2004	20.4	0	CU M/MI	60.2572	CU M
SP1		08.27.2004	20.45	0	CU M/MI	60.2572	CU M
SP1		08.27.2004	20.5	0	CU M/MI	60.21935	CU M
SP1		08.27.2004	20.55	0	CU M/MI	60.21935	CU M
SP1		08.27.2004	21	0	CU M/MI	60.21935	CU M
SP1		08.27.2004	21.05	0	CU M/MI	60.21935	CU M
SP1		08.27.2004	21.1	0	CU M/MI	60.21935	CU M
SP1		08.27.2004	21.15	0	CU M/MI	60.21935	CU M
SP1		08.27.2004	21.2	0	CU M/MI	60.21935	CU M
SP1		08.27.2004	21.25	0	CU M/MI	60.21935	CU M
SP1		08.27.2004	21.3	0.03964	CU M/MI	60.67355	CU M
SP1		08.27.2004	21.35	0	CU M/MI	60.67355	CU M
SP1		08.27.2004	21.4	0	CU M/MI	60.67355	CU M
SP1		08.27.2004	21.45	0	CU M/MI	60.67355	CU M
SP1		08.27.2004	21.5	0	CU M/MI	60.67355	CU M
SP1		08.27.2004	21.55	0	CU M/MI	60.67355	CU M
SP1		08.27.2004	22	0	CU M/MI	60.67355	CU M
SP1		08.27.2004	22.05	0	CU M/MI	60.67355	CU M
SP1		08.27.2004	22.1	0	CU M/MI	60.67355	CU M
SP1		08.27.2004	22.15	0	CU M/MI	60.67355	CU M
SP1		08.27.2004	22.2	0	CU M/MI	60.67355	CU M
SP1		08.27.2004	22.25	0	CU M/MI	60.6357	CU M
SP1		08.27.2004	22.3	0	CU M/MI	60.6357	CU M
SP1		08.27.2004	22.35	0	CU M/MI	60.6357	CU M
SP1		08.27.2004	22.4	0	CU M/MI	61.0899	CU M
SP1		08.27.2004	22.45	0	CU M/MI	61.0899	CU M
SP1		08.27.2004	22.5	0	CU M/MI	61.0899	CU M
SP1		08.27.2004	22.55	0	CU M/MI	61.0899	CU M
SP1		08.27.2004	23	0	CU M/MI	61.0899	CU M
SP1		08.27.2004	23.05	0	CU M/MI	61.0899	CU M
SP1		08.27.2004	23.1	0	CU M/MI	61.0899	CU M
SP1		08.27.2004	23.15	0	CU M/MI	61.05205	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1		08.27.2004	23.2	0	CU M/MI	61.05205	CU M
SP1		08.27.2004	23.25	0	CU M/MI	61.12775	CU M
SP1		08.27.2004	23.3	1.11769	CU M/MI	66.57815	CU M
SP1		08.27.2004	23.35	1.09997	CU M/MI	72.10425	CU M
SP1		08.27.2004	23.4	0	CU M/MI	72.78555	CU M
SP1		08.27.2004	23.45	0	CU M/MI	72.7477	CU M
SP1		08.27.2004	23.5	0	CU M/MI	72.7477	CU M
SP1		08.27.2004	23.55	0	CU M/MI	72.7477	CU M
SP1		08.28.2004	0	0	CU M/MI	72.7477	CU M
SP1		08.28.2004	0.05	0	CU M/MI	72.7477	CU M
SP1		08.28.2004	0.1	0	CU M/MI	72.7477	CU M
SP1		08.28.2004	0.15	0	CU M/MI	72.7477	CU M
SP1		08.28.2004	0.2	0	CU M/MI	72.7477	CU M
SP1		08.28.2004	0.25	0	CU M/MI	72.93695	CU M
SP1		08.28.2004	0.3	0	CU M/MI	72.93695	CU M
SP1		08.28.2004	0.35	0	CU M/MI	72.93695	CU M
SP1		08.28.2004	0.4	0	CU M/MI	72.93695	CU M
SP1		08.28.2004	0.45	0	CU M/MI	72.93695	CU M
SP1		08.28.2004	0.5	0	CU M/MI	72.93695	CU M
SP1		08.28.2004	0.55	0	CU M/MI	72.93695	CU M
SP1		08.28.2004	1	0	CU M/MI	72.93695	CU M
SP1		08.28.2004	1.05	0	CU M/MI	72.9748	CU M
SP1		08.28.2004	1.1	0	CU M/MI	73.0505	CU M
SP1		08.28.2004	1.15	0	CU M/MI	73.01265	CU M
SP1		08.28.2004	1.2	0	CU M/MI	73.01265	CU M
SP1		08.28.2004	1.25	0	CU M/MI	73.01265	CU M
SP1		08.28.2004	1.3	0	CU M/MI	73.01265	CU M
SP1		08.28.2004	1.35	0	CU M/MI	73.01265	CU M
SP1		08.28.2004	1.4	0	CU M/MI	73.2019	CU M
SP1		08.28.2004	1.45	0.00017	CU M/MI	73.2019	CU M
SP1		08.28.2004	1.5	0	CU M/MI	73.2019	CU M
SP1		08.28.2004	1.55	0	CU M/MI	73.2019	CU M
SP1		08.28.2004	2	0	CU M/MI	73.2019	CU M
SP1		08.28.2004	2.05	0	CU M/MI	73.2019	CU M
SP1		08.28.2004	2.1	0.00017	CU M/MI	73.2019	CU M
SP1		08.28.2004	2.15	0.0004	CU M/MI	73.2019	CU M
SP1		08.28.2004	2.2	0.00037	CU M/MI	73.2019	CU M
SP1		08.28.2004	2.25	0.0004	CU M/MI	73.2019	CU M
SP1		08.28.2004	2.3	0.00007	CU M/MI	73.2019	CU M
SP1		08.28.2004	2.35	0	CU M/MI	73.2019	CU M
SP1		08.28.2004	2.4	0.00003	CU M/MI	73.2019	CU M
SP1		08.28.2004	2.45	0	CU M/MI	73.16405	CU M
SP1		08.28.2004	2.5	0.00014	CU M/MI	73.16405	CU M
SP1		08.28.2004	2.55	0	CU M/MI	73.16405	CU M
SP1		08.28.2004	3	0	CU M/MI	73.16405	CU M
SP1		08.28.2004	3.05	0.00015	CU M/MI	73.16405	CU M
SP1		08.28.2004	3.1	0	CU M/MI	73.16405	CU M
SP1		08.28.2004	3.15	0	CU M/MI	73.16405	CU M
SP1		08.28.2004	3.2	0	CU M/MI	73.16405	CU M
SP1		08.28.2004	3.25	0	CU M/MI	73.16405	CU M
SP1		08.28.2004	3.3	0	CU M/MI	73.16405	CU M
SP1		08.28.2004	3.35	0	CU M/MI	73.16405	CU M
SP1		08.28.2004	3.4	0	CU M/MI	73.16405	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1		08.28.2004	3.45	0	CU M/MI	73.16405	CU M
SP1		08.28.2004	3.5	0	CU M/MI	73.16405	CU M
SP1		08.28.2004	3.55	0	CU M/MI	73.16405	CU M
SP1		08.28.2004	4	0	CU M/MI	73.16405	CU M
SP1		08.28.2004	4.05	0	CU M/MI	73.16405	CU M
SP1		08.28.2004	4.1	0	CU M/MI	73.1262	CU M
SP1		08.28.2004	4.15	0	CU M/MI	73.1262	CU M
SP1		08.28.2004	4.2	0	CU M/MI	73.1262	CU M
SP1		08.28.2004	4.25	0	CU M/MI	73.1262	CU M
SP1		08.28.2004	4.3	0	CU M/MI	73.1262	CU M
SP1		08.28.2004	4.35	0	CU M/MI	73.1262	CU M
SP1		08.28.2004	4.4	0	CU M/MI	73.1262	CU M
SP1		08.28.2004	4.45	0	CU M/MI	73.1262	CU M
SP1		08.28.2004	4.5	0	CU M/MI	73.1262	CU M
SP1		08.28.2004	4.55	0	CU M/MI	73.1262	CU M
SP1		08.28.2004	5	0	CU M/MI	73.1262	CU M
SP1		08.28.2004	5.05	0	CU M/MI	73.08835	CU M
SP1		08.28.2004	5.1	0	CU M/MI	73.08835	CU M
SP1		08.28.2004	5.15	0	CU M/MI	73.08835	CU M
SP1		08.28.2004	5.2	0	CU M/MI	73.08835	CU M
SP1		08.28.2004	5.25	0	CU M/MI	73.08835	CU M
SP1		08.28.2004	5.3	0	CU M/MI	73.08835	CU M
SP1		08.28.2004	5.35	0	CU M/MI	73.23975	CU M
SP1		08.28.2004	5.4	0.0001	CU M/MI	73.2019	CU M
SP1		08.28.2004	5.45	0	CU M/MI	73.2019	CU M
SP1		08.28.2004	5.5	0	CU M/MI	73.2019	CU M
SP1		08.28.2004	5.55	0	CU M/MI	73.2019	CU M
SP1	Day 1	08.28.2004	6	0	CU M/MI	73.257576	CU M
SP1	Day 1	08.28.2004	6.05	0	CU M/MI	73.257576	CU M
SP1	Day 1	08.28.2004	6.1	0	CU M/MI	73.257576	CU M
SP1	Day 1	08.28.2004	6.15	0	CU M/MI	73.257576	CU M
SP1	Day 1	08.28.2004	6.2	0	CU M/MI	73.257576	CU M
SP1	Day 1	08.28.2004	6.25	0	CU M/MI	73.257576	CU M
SP1	Day 1	08.28.2004	6.3	0	CU M/MI	73.219697	CU M
SP1	Day 1	08.28.2004	6.35	0	CU M/MI	73.219697	CU M
SP1	Day 1	08.28.2004	6.4	0	CU M/MI	73.257576	CU M
SP1	Day 1	08.28.2004	6.45	0	CU M/MI	73.257576	CU M
SP1	Day 1	08.28.2004	6.5	0	CU M/MI	73.257576	CU M
SP1	Day 1	08.28.2004	6.55	0	CU M/MI	73.257576	CU M
SP1	Day 1	08.28.2004	7	0	CU M/MI	73.257576	CU M
SP1	Day 1	08.28.2004	7.05	0	CU M/MI	73.257576	CU M
SP1	Day 1	08.28.2004	7.1	0	CU M/MI	73.257576	CU M
SP1	Day 1	08.28.2004	7.15	0	CU M/MI	73.219697	CU M
SP1	Day 1	08.28.2004	7.2	0	CU M/MI	73.219697	CU M
SP1	Day 1	08.28.2004	7.25	0	CU M/MI	73.219697	CU M
SP1	Day 1	08.28.2004	7.3	0	CU M/MI	73.219697	CU M
SP1	Day 1	08.28.2004	7.35	0	CU M/MI	73.219697	CU M
SP1	Day 1	08.28.2004	7.4	0	CU M/MI	73.219697	CU M
SP1	Day 1	08.28.2004	7.45	0	CU M/MI	73.181818	CU M
SP1	Day 1	08.28.2004	7.5	0	CU M/MI	73.181818	CU M
SP1	Day 1	08.28.2004	7.55	0	CU M/MI	73.371212	CU M
SP1	Day 1	08.28.2004	8	0	CU M/MI	73.371212	CU M
SP1	Day 1	08.28.2004	8.05	0	CU M/MI	73.333333	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 1	08.28.2004	8.1	0	CU M/MI	73.333333	CU M
SP1	Day 1	08.28.2004	8.15	0	CU M/MI	73.333333	CU M
SP1	Day 1	08.28.2004	8.2	0	CU M/MI	73.333333	CU M
SP1	Day 1	08.28.2004	8.25	0	CU M/MI	73.333333	CU M
SP1	Day 1	08.28.2004	8.3	0	CU M/MI	73.333333	CU M
SP1	Day 1	08.28.2004	8.35	0	CU M/MI	73.333333	CU M
SP1	Day 1	08.28.2004	8.4	0	CU M/MI	73.333333	CU M
SP1	Day 1	08.28.2004	8.45	0	CU M/MI	73.333333	CU M
SP1	Day 1	08.28.2004	8.5	0	CU M/MI	73.295455	CU M
SP1	Day 1	08.28.2004	8.55	0	CU M/MI	73.295455	CU M
SP1	Day 1	08.28.2004	9	0	CU M/MI	73.295455	CU M
SP1	Day 1	08.28.2004	9.05	0	CU M/MI	73.295455	CU M
SP1	Day 1	08.28.2004	9.1	0	CU M/MI	73.295455	CU M
SP1	Day 1	08.28.2004	9.15	0	CU M/MI	73.295455	CU M
SP1	Day 1	08.28.2004	9.2	0	CU M/MI	73.295455	CU M
SP1	Day 1	08.28.2004	9.25	0	CU M/MI	73.295455	CU M
SP1	Day 1	08.28.2004	9.3	0	CU M/MI	73.484848	CU M
SP1	Day 1	08.28.2004	9.35	0	CU M/MI	73.484848	CU M
SP1	Day 1	08.28.2004	9.4	0	CU M/MI	73.484848	CU M
SP1	Day 1	08.28.2004	9.45	0	CU M/MI	73.484848	CU M
SP1	Day 1	08.28.2004	9.5	0	CU M/MI	73.44697	CU M
SP1	Day 1	08.28.2004	9.55	0	CU M/MI	73.44697	CU M
SP1	Day 1	08.28.2004	10	0	CU M/MI	73.44697	CU M
SP1	Day 1	08.28.2004	10.05	0	CU M/MI	73.44697	CU M
SP1	Day 1	08.28.2004	10.1	0	CU M/MI	73.44697	CU M
SP1	Day 1	08.28.2004	10.15	0	CU M/MI	73.44697	CU M
SP1	Day 1	08.28.2004	10.2	0	CU M/MI	73.44697	CU M
SP1	Day 1	08.28.2004	10.25	0	CU M/MI	73.44697	CU M
SP1	Day 1	08.28.2004	10.3	0	CU M/MI	73.44697	CU M
SP1	Day 1	08.28.2004	10.35	0	CU M/MI	73.44697	CU M
SP1	Day 1	08.28.2004	10.4	0	CU M/MI	73.44697	CU M
SP1	Day 1	08.28.2004	10.45	0	CU M/MI	73.44697	CU M
SP1	Day 1	08.28.2004	10.5	0	CU M/MI	73.44697	CU M
SP1	Day 1	08.28.2004	10.55	0	CU M/MI	73.44697	CU M
SP1	Day 1	08.28.2004	11	0	CU M/MI	73.44697	CU M
SP1	Day 1	08.28.2004	11.05	0	CU M/MI	73.409091	CU M
SP1	Day 1	08.28.2004	11.1	0	CU M/MI	73.409091	CU M
SP1	Day 1	08.28.2004	11.15	0	CU M/MI	73.409091	CU M
SP1	Day 1	08.28.2004	11.2	0	CU M/MI	73.522727	CU M
SP1	Day 1	08.28.2004	11.25	0	CU M/MI	73.522727	CU M
SP1	Day 1	08.28.2004	11.3	0	CU M/MI	73.522727	CU M
SP1	Day 1	08.28.2004	11.35	0	CU M/MI	73.522727	CU M
SP1	Day 1	08.28.2004	11.4	0	CU M/MI	73.522727	CU M
SP1	Day 1	08.28.2004	11.45	0	CU M/MI	73.522727	CU M
SP1	Day 1	08.28.2004	11.5	0	CU M/MI	73.522727	CU M
SP1	Day 1	08.28.2004	11.55	0	CU M/MI	73.522727	CU M
SP1	Day 1	08.28.2004	12	0	CU M/MI	73.522727	CU M
SP1	Day 1	08.28.2004	12.05	0	CU M/MI	73.522727	CU M
SP1	Day 1	08.28.2004	12.1	0	CU M/MI	73.484848	CU M
SP1	Day 1	08.28.2004	12.15	0	CU M/MI	73.484848	CU M
SP1	Day 1	08.28.2004	12.2	0	CU M/MI	73.484848	CU M
SP1	Day 1	08.28.2004	12.25	0	CU M/MI	73.484848	CU M
SP1	Day 1	08.28.2004	12.3	0	CU M/MI	73.484848	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 1	08.28.2004	12.35	0	CU M/MI	73.484848	CU M
SP1	Day 1	08.28.2004	12.4	0	CU M/MI	74.015152	CU M
SP1	Day 1	08.28.2004	12.45	0	CU M/MI	74.015152	CU M
SP1	Day 1	08.28.2004	12.5	0	CU M/MI	74.015152	CU M
SP1	Day 1	08.28.2004	12.55	0	CU M/MI	74.015152	CU M
SP1	Day 1	08.28.2004	13	0	CU M/MI	74.015152	CU M
SP1	Day 1	08.28.2004	13.05	0	CU M/MI	74.015152	CU M
SP1	Day 1	08.28.2004	13.1	0	CU M/MI	74.015152	CU M
SP1	Day 1	08.28.2004	13.15	0.00009	CU M/MI	74.015152	CU M
SP1	Day 1	08.28.2004	13.2	0	CU M/MI	74.015152	CU M
SP1	Day 1	08.28.2004	13.25	0	CU M/MI	74.015152	CU M
SP1	Day 1	08.28.2004	13.3	0	CU M/MI	74.015152	CU M
SP1	Day 1	08.28.2004	13.35	0	CU M/MI	74.015152	CU M
SP1	Day 1	08.28.2004	13.4	0.00014	CU M/MI	74.015152	CU M
SP1	Day 1	08.28.2004	13.45	0	CU M/MI	74.015152	CU M
SP1	Day 1	08.28.2004	13.5	0	CU M/MI	74.015152	CU M
SP1	Day 1	08.28.2004	13.55	0	CU M/MI	74.015152	CU M
SP1	Day 1	08.28.2004	14	0	CU M/MI	74.015152	CU M
SP1	Day 1	08.28.2004	14.05	0	CU M/MI	74.015152	CU M
SP1	Day 1	08.28.2004	14.1	0	CU M/MI	74.015152	CU M
SP1	Day 1	08.28.2004	14.15	0	CU M/MI	74.015152	CU M
SP1	Day 1	08.28.2004	14.2	0	CU M/MI	74.015152	CU M
SP1	Day 1	08.28.2004	14.25	0	CU M/MI	74.05303	CU M
SP1	Day 1	08.28.2004	16.2	0	CU M/MI	74.05303	CU M
SP1	Day 1	08.28.2004	16.25	0	CU M/MI	74.05303	CU M
SP1	Day 1	08.28.2004	16.3	0.00005	CU M/MI	74.05303	CU M
SP1	Day 1	08.28.2004	16.35	0	CU M/MI	74.090909	CU M
SP1	Day 1	08.28.2004	16.4	0	CU M/MI	74.166667	CU M
SP1	Day 1	08.28.2004	16.45	0	CU M/MI	74.166667	CU M
SP1	Day 1	08.28.2004	16.5	0	CU M/MI	74.166667	CU M
SP1	Day 1	08.28.2004	16.55	0	CU M/MI	74.166667	CU M
SP1	Day 1	08.28.2004	17	0.00015	CU M/MI	74.166667	CU M
SP1	Day 1	08.28.2004	17.05	0	CU M/MI	74.166667	CU M
SP1	Day 1	08.28.2004	17.1	0.00025	CU M/MI	74.166667	CU M
SP1	Day 1	08.28.2004	17.15	0.00004	CU M/MI	74.166667	CU M
SP1	Day 1	08.28.2004	17.2	0	CU M/MI	74.166667	CU M
SP1	Day 1	08.28.2004	17.25	0.00018	CU M/MI	74.166667	CU M
SP1	Day 1	08.28.2004	17.3	0	CU M/MI	74.166667	CU M
SP1	Day 1	08.28.2004	17.35	0	CU M/MI	74.166667	CU M
SP1	Day 1	08.28.2004	17.4	0	CU M/MI	74.166667	CU M
SP1	Day 1	08.28.2004	17.45	0	CU M/MI	74.166667	CU M
SP1	Day 1	08.28.2004	17.5	0	CU M/MI	74.166667	CU M
SP1	Day 1	08.28.2004	17.55	0	CU M/MI	74.166667	CU M
SP1	Day 1	08.28.2004	18	0	CU M/MI	74.166667	CU M
SP1	Day 1	08.28.2004	18.05	0	CU M/MI	74.166667	CU M
SP1	Day 1	08.28.2004	18.1	0	CU M/MI	74.166667	CU M
SP1	Day 1	08.28.2004	18.15	0	CU M/MI	74.166667	CU M
SP1	Day 1	08.28.2004	18.2	0	CU M/MI	74.166667	CU M
SP1	Day 1	08.28.2004	18.25	0	CU M/MI	74.166667	CU M
SP1	Day 1	08.28.2004	18.3	0	CU M/MI	74.166667	CU M
SP1	Day 1	08.28.2004	18.35	0	CU M/MI	74.356061	CU M
SP1	Day 1	08.28.2004	18.4	0	CU M/MI	74.356061	CU M
SP1	Day 1	08.28.2004	18.45	0	CU M/MI	74.356061	CU M

Appendix B
Raw Flow from Galley (SP-1)
23 August Through 3 September 2004

Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 1	08.28.2004	18.5	0	CU M/MI	74.356061	CU M
SP1	Day 1	08.28.2004	18.55	0	CU M/MI	74.356061	CU M
SP1	Day 1	08.28.2004	19	0	CU M/MI	74.356061	CU M
SP1	Day 1	08.28.2004	19.05	0	CU M/MI	74.356061	CU M
SP1	Day 1	08.28.2004	19.1	0	CU M/MI	74.356061	CU M
SP1	Day 1	08.28.2004	19.15	0	CU M/MI	74.318182	CU M
SP1	Day 1	08.28.2004	19.2	0	CU M/MI	74.318182	CU M
SP1	Day 1	08.28.2004	19.25	0	CU M/MI	74.318182	CU M
SP1	Day 1	08.28.2004	19.3	0	CU M/MI	74.318182	CU M
SP1	Day 1	08.28.2004	19.35	0	CU M/MI	74.318182	CU M
SP1	Day 1	08.28.2004	20	0	CU M/MI	74.469697	CU M
SP1	Day 1	08.28.2004	20.05	0	CU M/MI	74.469697	CU M
SP1	Day 1	08.28.2004	20.1	0	CU M/MI	74.431818	CU M
SP1	Day 1	08.28.2004	20.15	0	CU M/MI	74.431818	CU M
SP1	Day 1	08.28.2004	20.2	0	CU M/MI	74.431818	CU M
SP1	Day 1	08.28.2004	20.25	0	CU M/MI	74.431818	CU M
SP1	Day 1	08.28.2004	20.3	0	CU M/MI	74.431818	CU M
SP1	Day 1	08.28.2004	20.35	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	20.4	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	20.45	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	20.5	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	20.55	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	21	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	21.05	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	21.1	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	21.15	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	21.2	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	21.25	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	21.3	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	21.35	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	21.4	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	21.45	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	21.5	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	21.55	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	22	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	22.05	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	22.1	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	22.15	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	22.2	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	22.25	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	22.3	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	22.35	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	22.4	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	22.45	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	22.5	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	22.55	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	23	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	23.05	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	23.1	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	23.15	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	23.2	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	23.25	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	23.3	0	CU M/MI	74.69697	CU M

Appendix B
Raw Flow from Galley (SP-1)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 1	08.28.2004	23.35	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	23.4	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	23.45	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	23.5	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.28.2004	23.55	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	0	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	0.05	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	0.1	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	0.15	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	0.2	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	0.25	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	0.3	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	0.35	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	0.4	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	0.45	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	0.5	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	0.55	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	1	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	1.05	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	1.1	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	1.15	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	1.2	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	1.25	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	1.3	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	1.35	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	1.4	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	1.45	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	1.5	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	1.55	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	2	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	2.05	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	2.1	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	2.15	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	2.2	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	2.25	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	2.3	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	2.35	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	2.4	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	2.45	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	2.5	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	2.55	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	3	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	3.05	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	3.1	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	3.15	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	3.2	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	3.25	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	3.3	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	3.35	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	3.4	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	3.45	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	3.5	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	3.55	0	CU M/MI	74.69697	CU M

Appendix B
Raw Flow from Galley (SP-1)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 1	08.29.2004	4	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	4.05	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	4.1	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	4.15	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	4.2	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	4.25	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	4.3	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	4.35	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	4.4	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	4.45	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	4.5	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	4.55	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	5	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	5.05	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	5.1	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	5.15	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	5.2	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	5.25	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	5.3	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	5.35	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	5.4	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	5.45	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	5.5	0	CU M/MI	74.69697	CU M
SP1	Day 1	08.29.2004	5.55	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	6	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	6.05	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	6.1	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	6.15	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	6.2	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	6.25	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	6.3	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	6.35	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	6.4	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	6.45	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	6.5	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	6.55	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	7	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	7.05	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	7.1	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	7.15	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	7.2	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	7.25	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	7.3	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	7.35	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	7.4	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	7.45	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	7.5	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	7.55	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	8	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	8.05	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	8.1	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	8.15	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	8.2	0	CU M/MI	74.69697	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 2	08.29.2004	8.25	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	8.3	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	8.35	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	8.4	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	8.45	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	8.5	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	8.55	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	9	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	9.05	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	9.1	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	9.15	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	9.2	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	9.25	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	9.3	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	9.35	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	9.4	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	9.45	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	9.5	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	9.55	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	10	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	10.05	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	10.1	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	10.15	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	10.2	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	10.25	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	10.3	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	10.35	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	10.4	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	10.45	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	10.5	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	10.55	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	11	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	11.05	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	11.1	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	11.15	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	11.2	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	11.25	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	11.3	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	11.35	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	11.4	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	11.45	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	11.5	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	11.55	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	12	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	12.05	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	12.1	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	12.15	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	12.2	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	12.25	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	12.3	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	12.35	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	12.4	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	12.45	0	CU M/MI	74.69697	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 2	08.29.2004	12.5	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	12.55	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	13	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	13.05	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	13.1	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	13.15	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	13.2	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	13.25	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	13.3	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	13.35	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	13.4	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	13.45	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	13.5	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	13.55	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	14	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	14.05	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	14.1	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	14.15	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	14.2	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	14.25	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	14.3	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	14.35	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	14.4	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	14.45	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	14.5	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	14.55	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	15	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	15.05	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	15.1	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	15.15	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	15.2	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	15.25	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	15.3	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	15.35	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	15.4	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	15.45	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	15.5	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	15.55	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	16	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	16.05	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	16.1	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	16.15	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	16.2	0	CU M/MI	74.69697	CU M
SP1	Day 2	08.29.2004	16.25	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	16.45	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	16.5	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	16.55	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	17	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	17.05	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	17.1	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	17.15	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	17.2	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	17.25	0	CU M/MI	74.621212	CU M

Appendix B
Raw Flow from Galley (SP-1)
23 August Through 3 September 2004

Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 2	08.29.2004	17.3	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	17.35	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	17.4	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	17.45	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	17.5	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	17.55	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	18	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	18.05	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	18.1	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	18.15	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	18.2	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	18.25	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	18.3	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	18.35	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	18.4	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	18.45	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	18.5	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	18.55	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	19	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	19.05	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	19.1	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	19.15	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	19.2	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	19.25	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	19.3	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	19.35	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	19.4	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	19.45	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	19.5	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	19.55	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	20	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	20.05	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	20.1	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	20.15	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	20.2	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	20.25	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	20.3	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	20.35	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	20.4	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	20.45	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	20.5	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	20.55	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	21	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	21.05	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	21.1	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	21.15	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	21.2	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	21.25	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	21.3	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	21.35	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	21.4	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	21.45	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	21.5	0	CU M/MI	74.621212	CU M

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Raw Flow from Galley (SP-1)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 2	08.29.2004	21.55	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	22	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	22.05	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	22.1	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	22.15	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	22.2	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	22.25	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	22.3	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	22.35	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	22.4	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	22.45	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	22.5	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	22.55	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	23	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	23.05	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	23.1	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	23.15	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	23.2	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	23.25	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	23.3	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	23.35	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	23.4	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	23.45	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	23.5	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.29.2004	23.55	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	0	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	0.05	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	0.1	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	0.15	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	0.2	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	0.25	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	0.3	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	0.35	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	0.4	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	0.45	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	0.5	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	0.55	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	1	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	1.05	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	1.1	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	1.15	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	1.2	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	1.25	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	1.3	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	1.35	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	1.4	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	1.45	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	1.5	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	1.55	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	2	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	2.05	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	2.1	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	2.15	0	CU M/MI	74.621212	CU M

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Raw Flow from Galley (SP-1)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 2	08.30.2004	2.2	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	2.25	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	2.3	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	2.35	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	2.4	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	2.45	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	2.5	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	2.55	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	3	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	3.05	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	3.1	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	3.15	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	3.2	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	3.25	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	3.3	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	3.35	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	3.4	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	3.45	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	3.5	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	3.55	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	4	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	4.05	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	4.1	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	4.15	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	4.2	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	4.25	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	4.3	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	4.35	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	4.4	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	4.45	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	4.5	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	4.55	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	5	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	5.05	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	5.1	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	5.15	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	5.2	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	5.25	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	5.3	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	5.35	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	5.4	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	5.45	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	5.5	0	CU M/MI	74.621212	CU M
SP1	Day 2	08.30.2004	5.55	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	6	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	6.05	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	6.1	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	6.15	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	6.2	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	6.25	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	6.3	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	6.35	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	6.4	0	CU M/MI	74.621212	CU M

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Raw Flow from Galley (SP-1)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 3	08.30.2004	6.45	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	6.5	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	6.55	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	7	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	7.05	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	7.1	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	7.15	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	7.2	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	7.25	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	7.3	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	7.35	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	7.4	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	7.45	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	7.5	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	7.55	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	8	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	8.05	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	8.1	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	8.15	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	8.2	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	8.25	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	8.3	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	8.35	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	8.4	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	8.45	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	8.5	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	8.55	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	9	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	9.05	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	9.1	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	9.15	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	9.2	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	9.25	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	9.3	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	9.35	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	9.4	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	9.45	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	9.5	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	9.55	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	10	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	10.05	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	10.1	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	10.15	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	10.2	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	10.25	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	10.3	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	10.35	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	10.4	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	10.45	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	10.5	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	10.55	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	11	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	11.05	0	CU M/MI	74.621212	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 3	08.30.2004	11.1	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	11.15	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	11.2	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	11.25	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	11.3	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	11.35	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	11.4	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	11.45	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	11.5	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	11.55	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	12	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	12.05	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	12.1	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	12.15	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	12.2	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	12.25	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	12.3	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	12.35	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	12.4	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	12.45	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	12.5	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	12.55	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	13	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	13.05	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	13.1	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	13.15	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	13.2	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	13.25	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	13.3	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	13.35	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	13.4	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	13.45	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	13.5	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	13.55	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	14	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	14.05	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	14.1	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	14.15	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	14.2	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	14.25	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	14.3	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	14.35	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	14.4	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	14.45	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	14.5	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	14.55	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	15	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	15.05	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	15.1	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	15.15	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	15.2	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	15.25	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	15.3	0	CU M/MI	74.621212	CU M

Appendix B
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 3	08.30.2004	15.35	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	15.4	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	15.45	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	15.5	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	15.55	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	16	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	16.05	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	16.1	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	16.15	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	16.2	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	16.25	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	16.3	0	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	16.35	0.0172	CU M/MI	74.621212	CU M
SP1	Day 3	08.30.2004	16.4	0	CU M/MI	74.659091	CU M
SP1	Day 3	08.30.2004	16.45	0	CU M/MI	74.659091	CU M
SP1	Day 3	08.30.2004	16.5	0	CU M/MI	74.810606	CU M
SP1	Day 3	08.30.2004	16.55	0.71401	CU M/MI	76.969697	CU M
SP1	Day 3	08.30.2004	17	0	CU M/MI	77.348485	CU M
SP1	Day 3	08.30.2004	17.05	0	CU M/MI	77.348485	CU M
SP1	Day 3	08.30.2004	17.1	0	CU M/MI	77.462121	CU M
SP1	Day 3	08.30.2004	17.15	0	CU M/MI	77.5	CU M
SP1	Day 3	08.30.2004	17.2	0	CU M/MI	77.5	CU M
SP1	Day 3	08.30.2004	17.25	0	CU M/MI	77.5	CU M
SP1	Day 3	08.30.2004	17.3	0	CU M/MI	77.5	CU M
SP1	Day 3	08.30.2004	17.35	0	CU M/MI	77.462121	CU M
SP1	Day 3	08.30.2004	17.4	0	CU M/MI	77.462121	CU M
SP1	Day 3	08.30.2004	17.45	0	CU M/MI	77.462121	CU M
SP1	Day 3	08.30.2004	17.5	0	CU M/MI	77.462121	CU M
SP1	Day 3	08.30.2004	17.55	0	CU M/MI	77.462121	CU M
SP1	Day 3	08.30.2004	18	0	CU M/MI	77.462121	CU M
SP1	Day 3	08.30.2004	18.05	0	CU M/MI	77.424242	CU M
SP1	Day 3	08.30.2004	18.1	0	CU M/MI	77.689394	CU M
SP1	Day 3	08.30.2004	18.15	0	CU M/MI	77.689394	CU M
SP1	Day 3	08.30.2004	18.2	0	CU M/MI	77.613636	CU M
SP1	Day 3	08.30.2004	18.25	2.27986	CU M/MI	83.143939	CU M
SP1	Day 3	08.30.2004	18.3	0.00507	CU M/MI	92.613636	CU M
SP1	Day 3	08.30.2004	18.35	0	CU M/MI	92.5	CU M
SP1	Day 3	08.30.2004	18.4	0	CU M/MI	92.5	CU M
SP1	Day 3	08.30.2004	18.45	0	CU M/MI	92.5	CU M
SP1	Day 3	08.30.2004	18.5	0	CU M/MI	92.5	CU M
SP1	Day 3	08.30.2004	18.55	0	CU M/MI	92.462121	CU M
SP1	Day 3	08.30.2004	19	0	CU M/MI	92.462121	CU M
SP1	Day 3	08.30.2004	19.2	0	CU M/MI	101.47727	CU M
SP1	Day 3	08.30.2004	19.25	0	CU M/MI	101.47727	CU M
SP1	Day 3	08.30.2004	19.3	0	CU M/MI	101.47727	CU M
SP1	Day 3	08.30.2004	19.35	0	CU M/MI	101.47727	CU M
SP1	Day 3	08.30.2004	19.4	0	CU M/MI	101.43939	CU M
SP1	Day 3	08.30.2004	19.45	0	CU M/MI	101.43939	CU M
SP1	Day 3	08.30.2004	19.5	0	CU M/MI	101.43939	CU M
SP1	Day 3	08.30.2004	19.55	0.00139	CU M/MI	101.36364	CU M
SP1	Day 3	08.30.2004	20	2.10267	CU M/MI	110.26515	CU M
SP1	Day 3	08.30.2004	20.05	2.08683	CU M/MI	120.98485	CU M
SP1	Day 3	08.30.2004	20.1	0	CU M/MI	121.17424	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 3	08.30.2004	20.15	0	CU M/MI	121.13636	CU M
SP1	Day 3	08.30.2004	20.2	0	CU M/MI	121.13636	CU M
SP1	Day 3	08.30.2004	20.25	1.13559	CU M/MI	124.92424	CU M
SP1	Day 3	08.30.2004	20.3	0	CU M/MI	128.48485	CU M
SP1	Day 3	08.30.2004	20.35	0	CU M/MI	128.44697	CU M
SP1	Day 3	08.30.2004	20.4	0	CU M/MI	128.44697	CU M
SP1	Day 3	08.30.2004	20.45	0	CU M/MI	128.44697	CU M
SP1	Day 3	08.30.2004	20.5	0	CU M/MI	128.44697	CU M
SP1	Day 3	08.30.2004	20.55	0.01497	CU M/MI	128.59848	CU M
SP1	Day 3	08.30.2004	21	0	CU M/MI	128.52273	CU M
SP1	Day 3	08.30.2004	21.05	0	CU M/MI	128.52273	CU M
SP1	Day 3	08.30.2004	21.1	0	CU M/MI	128.52273	CU M
SP1	Day 3	08.30.2004	21.15	0	CU M/MI	128.48485	CU M
SP1	Day 3	08.30.2004	21.2	2.1124	CU M/MI	135.45455	CU M
SP1	Day 3	08.30.2004	21.25	0	CU M/MI	141.13636	CU M
SP1	Day 3	08.30.2004	21.3	0	CU M/MI	141.36364	CU M
SP1	Day 3	08.30.2004	21.35	0	CU M/MI	141.36364	CU M
SP1	Day 3	08.30.2004	21.4	0	CU M/MI	141.36364	CU M
SP1	Day 3	08.30.2004	21.45	0	CU M/MI	141.36364	CU M
SP1	Day 3	08.30.2004	21.5	0	CU M/MI	141.32576	CU M
SP1	Day 3	08.30.2004	21.55	0	CU M/MI	141.32576	CU M
SP1	Day 3	08.30.2004	22	0	CU M/MI	141.32576	CU M
SP1	Day 3	08.30.2004	22.05	0	CU M/MI	141.32576	CU M
SP1	Day 3	08.30.2004	22.1	0	CU M/MI	141.32576	CU M
SP1	Day 3	08.30.2004	22.15	0	CU M/MI	141.32576	CU M
SP1	Day 3	08.30.2004	22.2	0	CU M/MI	141.32576	CU M
SP1	Day 3	08.30.2004	22.25	0	CU M/MI	141.32576	CU M
SP1	Day 3	08.30.2004	22.3	0	CU M/MI	141.32576	CU M
SP1	Day 3	08.30.2004	22.35	0	CU M/MI	141.70455	CU M
SP1	Day 3	08.30.2004	22.4	0	CU M/MI	141.66667	CU M
SP1	Day 3	08.30.2004	22.45	0	CU M/MI	141.66667	CU M
SP1	Day 3	08.30.2004	22.5	0	CU M/MI	141.66667	CU M
SP1	Day 3	08.30.2004	22.55	0	CU M/MI	141.66667	CU M
SP1	Day 3	08.30.2004	23	0	CU M/MI	141.66667	CU M
SP1	Day 3	08.30.2004	23.05	0	CU M/MI	141.62879	CU M
SP1	Day 3	08.30.2004	23.1	0	CU M/MI	141.62879	CU M
SP1	Day 3	08.30.2004	23.15	0.01639	CU M/MI	142.04545	CU M
SP1	Day 3	08.30.2004	23.2	0	CU M/MI	142.04545	CU M
SP1	Day 3	08.30.2004	23.25	0	CU M/MI	142.00758	CU M
SP1	Day 3	08.30.2004	23.3	0	CU M/MI	142.00758	CU M
SP1	Day 3	08.30.2004	23.35	0	CU M/MI	142.00758	CU M
SP1	Day 3	08.30.2004	23.4	0	CU M/MI	142.00758	CU M
SP1	Day 3	08.30.2004	23.45	0	CU M/MI	142.00758	CU M
SP1	Day 3	08.30.2004	23.5	0.44249	CU M/MI	142.23485	CU M
SP1	Day 3	08.30.2004	23.55	0	CU M/MI	142.23485	CU M
SP1	Day 3	08.31.2004	0	0	CU M/MI	142.23485	CU M
SP1	Day 3	08.31.2004	0.05	0.55227	CU M/MI	142.38636	CU M
SP1	Day 3	08.31.2004	0.1	0.74904	CU M/MI	146.17424	CU M
SP1	Day 3	08.31.2004	0.15	0.74053	CU M/MI	149.88636	CU M
SP1	Day 3	08.31.2004	0.2	0.72776	CU M/MI	153.56061	CU M
SP1	Day 3	08.31.2004	0.25	0.71708	CU M/MI	157.15909	CU M
SP1	Day 3	08.31.2004	0.3	0	CU M/MI	158.25758	CU M
SP1	Day 3	08.31.2004	0.35	0	CU M/MI	158.52273	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 3	08.31.2004	0.4	0	CU M/MI	158.52273	CU M
SP1	Day 3	08.31.2004	0.45	0	CU M/MI	158.48485	CU M
SP1	Day 3	08.31.2004	0.5	0	CU M/MI	158.48485	CU M
SP1	Day 3	08.31.2004	0.55	0	CU M/MI	158.48485	CU M
SP1	Day 3	08.31.2004	1	0	CU M/MI	158.48485	CU M
SP1	Day 3	08.31.2004	1.05	0	CU M/MI	158.48485	CU M
SP1	Day 3	08.31.2004	1.1	0	CU M/MI	158.59848	CU M
SP1	Day 3	08.31.2004	1.15	0	CU M/MI	158.59848	CU M
SP1	Day 3	08.31.2004	1.2	0	CU M/MI	158.59848	CU M
SP1	Day 3	08.31.2004	1.25	0	CU M/MI	158.59848	CU M
SP1	Day 3	08.31.2004	1.3	0.55613	CU M/MI	158.63636	CU M
SP1	Day 3	08.31.2004	1.35	0	CU M/MI	158.71212	CU M
SP1	Day 3	08.31.2004	1.4	0	CU M/MI	158.71212	CU M
SP1	Day 3	08.31.2004	1.45	0	CU M/MI	158.71212	CU M
SP1	Day 3	08.31.2004	1.5	0	CU M/MI	158.71212	CU M
SP1	Day 3	08.31.2004	1.55	0	CU M/MI	158.71212	CU M
SP1	Day 3	08.31.2004	2	0	CU M/MI	158.75	CU M
SP1	Day 3	08.31.2004	2.05	0	CU M/MI	158.71212	CU M
SP1	Day 3	08.31.2004	2.1	0	CU M/MI	158.71212	CU M
SP1	Day 3	08.31.2004	2.15	0	CU M/MI	158.71212	CU M
SP1	Day 3	08.31.2004	2.2	0	CU M/MI	158.71212	CU M
SP1	Day 3	08.31.2004	2.25	0	CU M/MI	158.71212	CU M
SP1	Day 3	08.31.2004	2.3	0	CU M/MI	158.71212	CU M
SP1	Day 3	08.31.2004	2.35	0.00035	CU M/MI	158.82576	CU M
SP1	Day 3	08.31.2004	2.4	0	CU M/MI	158.82576	CU M
SP1	Day 3	08.31.2004	2.45	0	CU M/MI	158.82576	CU M
SP1	Day 3	08.31.2004	2.5	0	CU M/MI	158.82576	CU M
SP1	Day 3	08.31.2004	2.55	0	CU M/MI	158.82576	CU M
SP1	Day 3	08.31.2004	3	0	CU M/MI	158.82576	CU M
SP1	Day 3	08.31.2004	3.05	0	CU M/MI	158.82576	CU M
SP1	Day 3	08.31.2004	3.1	0	CU M/MI	158.82576	CU M
SP1	Day 3	08.31.2004	3.15	0	CU M/MI	158.82576	CU M
SP1	Day 3	08.31.2004	3.2	0	CU M/MI	158.82576	CU M
SP1	Day 3	08.31.2004	3.25	0	CU M/MI	158.82576	CU M
SP1	Day 3	08.31.2004	3.3	0	CU M/MI	158.82576	CU M
SP1	Day 3	08.31.2004	3.35	0	CU M/MI	158.82576	CU M
SP1	Day 3	08.31.2004	3.4	0	CU M/MI	158.82576	CU M
SP1	Day 3	08.31.2004	3.45	0	CU M/MI	158.78788	CU M
SP1	Day 3	08.31.2004	3.5	0	CU M/MI	158.78788	CU M
SP1	Day 3	08.31.2004	3.55	0	CU M/MI	158.78788	CU M
SP1	Day 3	08.31.2004	4	0	CU M/MI	158.78788	CU M
SP1	Day 3	08.31.2004	4.05	0	CU M/MI	158.78788	CU M
SP1	Day 3	08.31.2004	4.1	0	CU M/MI	158.78788	CU M
SP1	Day 3	08.31.2004	4.15	0	CU M/MI	158.78788	CU M
SP1	Day 3	08.31.2004	4.2	0	CU M/MI	158.78788	CU M
SP1	Day 3	08.31.2004	4.25	0	CU M/MI	158.78788	CU M
SP1	Day 3	08.31.2004	4.3	0	CU M/MI	158.78788	CU M
SP1	Day 3	08.31.2004	4.35	0	CU M/MI	158.78788	CU M
SP1	Day 3	08.31.2004	4.4	0	CU M/MI	158.78788	CU M
SP1	Day 3	08.31.2004	4.45	0	CU M/MI	158.78788	CU M
SP1	Day 3	08.31.2004	4.5	0	CU M/MI	158.75	CU M
SP1	Day 3	08.31.2004	4.55	0	CU M/MI	158.75	CU M
SP1	Day 3	08.31.2004	5	0	CU M/MI	158.75	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 3	08.31.2004	5.05	0	CU M/MI	158.75	CU M
SP1	Day 3	08.31.2004	5.1	0	CU M/MI	158.75	CU M
SP1	Day 3	08.31.2004	5.15	0	CU M/MI	158.75	CU M
SP1	Day 3	08.31.2004	5.2	0	CU M/MI	158.75	CU M
SP1	Day 3	08.31.2004	5.25	0	CU M/MI	158.75	CU M
SP1	Day 3	08.31.2004	5.3	0	CU M/MI	158.75	CU M
SP1	Day 3	08.31.2004	5.35	0	CU M/MI	158.71212	CU M
SP1	Day 3	08.31.2004	5.4	0	CU M/MI	158.71212	CU M
SP1	Day 3	08.31.2004	5.45	0	CU M/MI	158.71212	CU M
SP1	Day 3	08.31.2004	5.5	0	CU M/MI	158.71212	CU M
SP1	Day 3	08.31.2004	5.55	0	CU M/MI	158.71212	CU M
SP1	Day 4	08.31.2004	6	0	CU M/MI	158.71212	CU M
SP1	Day 4	08.31.2004	6.05	0	CU M/MI	158.71212	CU M
SP1	Day 4	08.31.2004	6.1	0	CU M/MI	158.71212	CU M
SP1	Day 4	08.31.2004	6.15	0	CU M/MI	158.86364	CU M
SP1	Day 4	08.31.2004	6.2	0	CU M/MI	158.86364	CU M
SP1	Day 4	08.31.2004	6.25	0	CU M/MI	158.86364	CU M
SP1	Day 4	08.31.2004	6.3	0	CU M/MI	158.86364	CU M
SP1	Day 4	08.31.2004	6.35	0	CU M/MI	158.86364	CU M
SP1	Day 4	08.31.2004	6.4	0	CU M/MI	158.86364	CU M
SP1	Day 4	08.31.2004	6.45	0	CU M/MI	158.86364	CU M
SP1	Day 4	08.31.2004	6.5	0	CU M/MI	158.82576	CU M
SP1	Day 4	08.31.2004	6.55	0	CU M/MI	158.82576	CU M
SP1	Day 4	08.31.2004	7	0	CU M/MI	158.82576	CU M
SP1	Day 4	08.31.2004	7.05	0	CU M/MI	158.86364	CU M
SP1	Day 4	08.31.2004	7.1	0	CU M/MI	158.82576	CU M
SP1	Day 4	08.31.2004	7.15	0	CU M/MI	158.82576	CU M
SP1	Day 4	08.31.2004	7.2	0	CU M/MI	158.82576	CU M
SP1	Day 4	08.31.2004	7.25	0	CU M/MI	158.82576	CU M
SP1	Day 4	08.31.2004	7.3	0	CU M/MI	158.82576	CU M
SP1	Day 4	08.31.2004	7.35	0	CU M/MI	158.82576	CU M
SP1	Day 4	08.31.2004	7.4	0	CU M/MI	158.78788	CU M
SP1	Day 4	08.31.2004	7.45	0	CU M/MI	158.78788	CU M
SP1	Day 4	08.31.2004	7.5	0	CU M/MI	158.78788	CU M
SP1	Day 4	08.31.2004	7.55	0	CU M/MI	158.78788	CU M
SP1	Day 4	08.31.2004	8	0	CU M/MI	158.78788	CU M
SP1	Day 4	08.31.2004	8.05	0	CU M/MI	158.78788	CU M
SP1	Day 4	08.31.2004	8.1	0	CU M/MI	158.78788	CU M
SP1	Day 4	08.31.2004	8.15	0	CU M/MI	158.78788	CU M
SP1	Day 4	08.31.2004	8.2	0	CU M/MI	158.97727	CU M
SP1	Day 4	08.31.2004	8.25	0	CU M/MI	158.97727	CU M
SP1	Day 4	08.31.2004	8.3	0	CU M/MI	158.97727	CU M
SP1	Day 4	08.31.2004	8.35	0	CU M/MI	158.97727	CU M
SP1	Day 4	08.31.2004	8.4	0	CU M/MI	158.97727	CU M
SP1	Day 4	08.31.2004	8.45	0	CU M/MI	158.97727	CU M
SP1	Day 4	08.31.2004	8.5	0	CU M/MI	158.97727	CU M
SP1	Day 4	08.31.2004	8.55	0	CU M/MI	158.93939	CU M
SP1	Day 4	08.31.2004	9	0	CU M/MI	158.93939	CU M
SP1	Day 4	08.31.2004	9.05	0	CU M/MI	158.93939	CU M
SP1	Day 4	08.31.2004	9.1	0	CU M/MI	158.93939	CU M
SP1	Day 4	08.31.2004	9.15	0	CU M/MI	158.93939	CU M
SP1	Day 4	08.31.2004	9.2	0	CU M/MI	158.93939	CU M
SP1	Day 4	08.31.2004	9.25	0	CU M/MI	158.93939	CU M

Appendix B
Raw Flow from Galley (SP-1)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 4	08.31.2004	9.3	0	CU M/MI	158.93939	CU M
SP1	Day 4	08.31.2004	9.35	0	CU M/MI	158.90152	CU M
SP1	Day 4	08.31.2004	9.4	0	CU M/MI	159.09091	CU M
SP1	Day 4	08.31.2004	9.45	0	CU M/MI	159.09091	CU M
SP1	Day 4	08.31.2004	9.5	0	CU M/MI	159.09091	CU M
SP1	Day 4	08.31.2004	9.55	0	CU M/MI	159.09091	CU M
SP1	Day 4	08.31.2004	10	0	CU M/MI	159.09091	CU M
SP1	Day 4	08.31.2004	10.05	0	CU M/MI	159.09091	CU M
SP1	Day 4	08.31.2004	10.1	0	CU M/MI	159.09091	CU M
SP1	Day 4	08.31.2004	10.15	0	CU M/MI	159.05303	CU M
SP1	Day 4	08.31.2004	10.2	0	CU M/MI	159.05303	CU M
SP1	Day 4	08.31.2004	10.25	0	CU M/MI	159.05303	CU M
SP1	Day 4	08.31.2004	10.3	0	CU M/MI	159.05303	CU M
SP1	Day 4	08.31.2004	10.35	0	CU M/MI	159.05303	CU M
SP1	Day 4	08.31.2004	10.4	0	CU M/MI	159.05303	CU M
SP1	Day 4	08.31.2004	10.45	0	CU M/MI	159.05303	CU M
SP1	Day 4	08.31.2004	10.5	0	CU M/MI	159.05303	CU M
SP1	Day 4	08.31.2004	10.55	0	CU M/MI	159.01515	CU M
SP1	Day 4	08.31.2004	11	0	CU M/MI	159.01515	CU M
SP1	Day 4	08.31.2004	11.05	0	CU M/MI	159.16667	CU M
SP1	Day 4	08.31.2004	11.1	0	CU M/MI	159.16667	CU M
SP1	Day 4	08.31.2004	11.15	0	CU M/MI	159.16667	CU M
SP1	Day 4	08.31.2004	11.2	0	CU M/MI	159.16667	CU M
SP1	Day 4	08.31.2004	11.25	0	CU M/MI	159.16667	CU M
SP1	Day 4	08.31.2004	11.3	0	CU M/MI	159.16667	CU M
SP1	Day 4	08.31.2004	11.35	0	CU M/MI	159.16667	CU M
SP1	Day 4	08.31.2004	11.4	0	CU M/MI	159.16667	CU M
SP1	Day 4	08.31.2004	11.45	0	CU M/MI	159.12879	CU M
SP1	Day 4	08.31.2004	11.5	0	CU M/MI	159.12879	CU M
SP1	Day 4	08.31.2004	11.55	0	CU M/MI	159.12879	CU M
SP1	Day 4	08.31.2004	12	0	CU M/MI	159.12879	CU M
SP1	Day 4	08.31.2004	12.05	0	CU M/MI	159.12879	CU M
SP1	Day 4	08.31.2004	12.1	0	CU M/MI	159.12879	CU M
SP1	Day 4	08.31.2004	12.15	0	CU M/MI	159.12879	CU M
SP1	Day 4	08.31.2004	12.2	0	CU M/MI	159.12879	CU M
SP1	Day 4	08.31.2004	12.25	0	CU M/MI	159.12879	CU M
SP1	Day 4	08.31.2004	12.3	0	CU M/MI	159.12879	CU M
SP1	Day 4	08.31.2004	12.35	0	CU M/MI	159.12879	CU M
SP1	Day 4	08.31.2004	12.4	0	CU M/MI	159.12879	CU M
SP1	Day 4	08.31.2004	12.45	0	CU M/MI	159.09091	CU M
SP1	Day 4	08.31.2004	12.5	0	CU M/MI	159.2803	CU M
SP1	Day 4	08.31.2004	12.55	0	CU M/MI	159.2803	CU M
SP1	Day 4	08.31.2004	13	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	13.05	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	13.1	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	13.15	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	13.2	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	13.25	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	13.3	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	13.35	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	13.4	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	13.45	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	13.5	0	CU M/MI	159.24242	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 4	08.31.2004	13.55	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	14	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	14.05	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	14.1	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	14.15	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	14.2	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	14.25	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	14.3	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	14.35	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	14.4	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	14.45	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	14.5	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	14.55	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	15	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	15.05	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	15.1	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	15.15	0	CU M/MI	159.24242	CU M
SP1	Day 4	08.31.2004	15.2	0	CU M/MI	160.49242	CU M
SP1	Day 4	08.31.2004	15.25	0	CU M/MI	160.49242	CU M
SP1	Day 4	08.31.2004	15.3	0	CU M/MI	160.49242	CU M
SP1	Day 4	08.31.2004	15.35	0.00009	CU M/MI	160.49242	CU M
SP1	Day 4	08.31.2004	15.4	0.00017	CU M/MI	160.49242	CU M
SP1	Day 4	08.31.2004	15.45	0	CU M/MI	160.49242	CU M
SP1	Day 4	08.31.2004	15.5	0.00003	CU M/MI	160.49242	CU M
SP1	Day 4	08.31.2004	15.55	0.00004	CU M/MI	160.49242	CU M
SP1	Day 4	08.31.2004	16	0	CU M/MI	160.49242	CU M
SP1	Day 4	08.31.2004	16.05	0.00008	CU M/MI	160.49242	CU M
SP1	Day 4	08.31.2004	16.1	0.00032	CU M/MI	160.49242	CU M
SP1	Day 4	08.31.2004	16.15	0.00015	CU M/MI	160.49242	CU M
SP1	Day 4	08.31.2004	16.2	0	CU M/MI	160.49242	CU M
SP1	Day 4	08.31.2004	16.25	0.00012	CU M/MI	160.49242	CU M
SP1	Day 4	08.31.2004	16.3	0	CU M/MI	160.49242	CU M
SP1	Day 4	08.31.2004	16.35	0	CU M/MI	160.49242	CU M
SP1	Day 4	08.31.2004	16.4	0.00049	CU M/MI	160.75758	CU M
SP1	Day 4	08.31.2004	16.45	0	CU M/MI	160.75758	CU M
SP1	Day 4	08.31.2004	16.55	0	CU M/MI	160.83333	CU M
SP1	Day 4	08.31.2004	17	0	CU M/MI	160.79545	CU M
SP1	Day 4	08.31.2004	17.05	0.00032	CU M/MI	160.79545	CU M
SP1	Day 4	08.31.2004	17.1	0	CU M/MI	160.79545	CU M
SP1	Day 4	08.31.2004	17.15	0	CU M/MI	160.79545	CU M
SP1	Day 4	08.31.2004	17.2	0	CU M/MI	160.79545	CU M
SP1	Day 4	08.31.2004	17.25	0	CU M/MI	160.79545	CU M
SP1	Day 4	08.31.2004	17.3	0	CU M/MI	160.79545	CU M
SP1	Day 4	08.31.2004	17.35	0	CU M/MI	160.79545	CU M
SP1	Day 4	08.31.2004	17.4	0	CU M/MI	160.79545	CU M
SP1	Day 4	08.31.2004	17.45	0	CU M/MI	160.79545	CU M
SP1	Day 4	08.31.2004	17.5	0	CU M/MI	160.79545	CU M
SP1	Day 4	08.31.2004	17.55	0	CU M/MI	160.79545	CU M
SP1	Day 4	08.31.2004	18	0	CU M/MI	160.79545	CU M
SP1	Day 4	08.31.2004	18.05	0	CU M/MI	160.79545	CU M
SP1	Day 4	08.31.2004	18.1	0	CU M/MI	160.79545	CU M
SP1	Day 4	08.31.2004	18.15	0	CU M/MI	160.79545	CU M
SP1	Day 4	08.31.2004	18.2	0	CU M/MI	160.98485	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 4	08.31.2004	18.25	0	CU M/MI	160.90909	CU M
SP1	Day 4	08.31.2004	18.3	0	CU M/MI	160.90909	CU M
SP1	Day 4	08.31.2004	18.35	0	CU M/MI	160.90909	CU M
SP1	Day 4	08.31.2004	18.4	0.02183	CU M/MI	160.94697	CU M
SP1	Day 4	08.31.2004	18.45	0	CU M/MI	160.94697	CU M
SP1	Day 4	08.31.2004	18.5	0	CU M/MI	160.94697	CU M
SP1	Day 4	08.31.2004	18.55	0	CU M/MI	160.94697	CU M
SP1	Day 4	08.31.2004	19	0	CU M/MI	160.90909	CU M
SP1	Day 4	08.31.2004	19.05	0	CU M/MI	160.90909	CU M
SP1	Day 4	08.31.2004	19.1	0	CU M/MI	160.90909	CU M
SP1	Day 4	08.31.2004	19.15	0	CU M/MI	160.90909	CU M
SP1	Day 4	08.31.2004	19.2	0	CU M/MI	161.02273	CU M
SP1	Day 4	08.31.2004	19.45	0	CU M/MI	160.98485	CU M
SP1	Day 4	08.31.2004	19.5	0	CU M/MI	160.98485	CU M
SP1	Day 4	08.31.2004	19.55	0	CU M/MI	161.06061	CU M
SP1	Day 4	08.31.2004	20	0	CU M/MI	161.06061	CU M
SP1	Day 4	08.31.2004	20.05	0	CU M/MI	161.06061	CU M
SP1	Day 4	08.31.2004	20.1	0	CU M/MI	161.06061	CU M
SP1	Day 4	08.31.2004	20.15	0.00014	CU M/MI	161.06061	CU M
SP1	Day 4	08.31.2004	20.2	0	CU M/MI	161.06061	CU M
SP1	Day 4	08.31.2004	20.25	0	CU M/MI	161.06061	CU M
SP1	Day 4	08.31.2004	20.3	0	CU M/MI	161.06061	CU M
SP1	Day 4	08.31.2004	20.35	0	CU M/MI	161.06061	CU M
SP1	Day 4	08.31.2004	20.4	0	CU M/MI	161.06061	CU M
SP1	Day 4	08.31.2004	20.45	0	CU M/MI	161.06061	CU M
SP1	Day 4	08.31.2004	20.5	0	CU M/MI	161.06061	CU M
SP1	Day 4	08.31.2004	20.55	0	CU M/MI	161.06061	CU M
SP1	Day 4	08.31.2004	21	0	CU M/MI	161.06061	CU M
SP1	Day 4	08.31.2004	21.05	0	CU M/MI	161.06061	CU M
SP1	Day 4	08.31.2004	21.1	0	CU M/MI	161.06061	CU M
SP1	Day 4	08.31.2004	21.15	0	CU M/MI	161.21212	CU M
SP1	Day 4	08.31.2004	21.2	0	CU M/MI	161.21212	CU M
SP1	Day 4	08.31.2004	21.25	0	CU M/MI	161.21212	CU M
SP1	Day 4	08.31.2004	21.3	0	CU M/MI	161.21212	CU M
SP1	Day 4	08.31.2004	21.35	0	CU M/MI	161.21212	CU M
SP1	Day 4	08.31.2004	21.4	0	CU M/MI	161.21212	CU M
SP1	Day 4	08.31.2004	21.45	0	CU M/MI	161.21212	CU M
SP1	Day 4	08.31.2004	21.5	0	CU M/MI	161.21212	CU M
SP1	Day 4	08.31.2004	21.55	0	CU M/MI	161.21212	CU M
SP1	Day 4	08.31.2004	22	0	CU M/MI	161.21212	CU M
SP1	Day 4	08.31.2004	22.05	0	CU M/MI	161.21212	CU M
SP1	Day 4	08.31.2004	22.1	0	CU M/MI	161.17424	CU M
SP1	Day 4	08.31.2004	22.15	0	CU M/MI	161.32576	CU M
SP1	Day 4	08.31.2004	22.2	0	CU M/MI	161.28788	CU M
SP1	Day 4	08.31.2004	22.25	0	CU M/MI	161.28788	CU M
SP1	Day 4	08.31.2004	22.3	0	CU M/MI	161.28788	CU M
SP1	Day 4	08.31.2004	22.35	0	CU M/MI	161.28788	CU M
SP1	Day 4	08.31.2004	22.4	0	CU M/MI	161.28788	CU M
SP1	Day 4	08.31.2004	22.45	0	CU M/MI	161.28788	CU M
SP1	Day 4	08.31.2004	22.5	0	CU M/MI	161.28788	CU M
SP1	Day 4	08.31.2004	22.55	0	CU M/MI	161.32576	CU M
SP1	Day 4	08.31.2004	23	0	CU M/MI	161.32576	CU M
SP1	Day 4	08.31.2004	23.05	0	CU M/MI	161.32576	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 4	08.31.2004	23.1	0	CU M/MI	161.32576	CU M
SP1	Day 4	08.31.2004	23.15	0	CU M/MI	161.32576	CU M
SP1	Day 4	08.31.2004	23.2	0	CU M/MI	161.32576	CU M
SP1	Day 4	08.31.2004	23.25	0	CU M/MI	161.28788	CU M
SP1	Day 4	08.31.2004	23.3	0	CU M/MI	161.28788	CU M
SP1	Day 4	08.31.2004	23.35	0	CU M/MI	161.28788	CU M
SP1	Day 4	08.31.2004	23.4	0	CU M/MI	161.28788	CU M
SP1	Day 4	08.31.2004	23.45	0	CU M/MI	161.36364	CU M
SP1	Day 4	08.31.2004	23.5	0	CU M/MI	161.36364	CU M
SP1	Day 4	08.31.2004	23.55	0	CU M/MI	161.36364	CU M
SP1	Day 4	09.01.2004	0	0	CU M/MI	161.36364	CU M
SP1	Day 4	09.01.2004	0.05	0	CU M/MI	161.36364	CU M
SP1	Day 4	09.01.2004	0.1	0	CU M/MI	161.36364	CU M
SP1	Day 4	09.01.2004	0.15	0	CU M/MI	161.36364	CU M
SP1	Day 4	09.01.2004	0.2	0	CU M/MI	161.36364	CU M
SP1	Day 4	09.01.2004	0.25	0	CU M/MI	161.47727	CU M
SP1	Day 4	09.01.2004	0.3	0	CU M/MI	161.47727	CU M
SP1	Day 4	09.01.2004	0.35	0	CU M/MI	161.47727	CU M
SP1	Day 4	09.01.2004	0.4	0	CU M/MI	161.47727	CU M
SP1	Day 4	09.01.2004	0.45	0	CU M/MI	161.47727	CU M
SP1	Day 4	09.01.2004	0.5	0	CU M/MI	161.47727	CU M
SP1	Day 4	09.01.2004	0.55	0	CU M/MI	161.47727	CU M
SP1	Day 4	09.01.2004	1	0	CU M/MI	161.47727	CU M
SP1	Day 4	09.01.2004	1.05	0	CU M/MI	161.47727	CU M
SP1	Day 4	09.01.2004	1.1	0	CU M/MI	161.47727	CU M
SP1	Day 4	09.01.2004	1.15	0	CU M/MI	161.47727	CU M
SP1	Day 4	09.01.2004	1.2	0	CU M/MI	161.43939	CU M
SP1	Day 4	09.01.2004	1.25	0	CU M/MI	161.62879	CU M
SP1	Day 4	09.01.2004	1.3	0	CU M/MI	161.62879	CU M
SP1	Day 4	09.01.2004	1.35	0	CU M/MI	161.59091	CU M
SP1	Day 4	09.01.2004	1.4	0	CU M/MI	161.59091	CU M
SP1	Day 4	09.01.2004	1.45	0	CU M/MI	161.59091	CU M
SP1	Day 4	09.01.2004	1.5	0	CU M/MI	161.59091	CU M
SP1	Day 4	09.01.2004	1.55	0.16681	CU M/MI	161.51515	CU M
SP1	Day 4	09.01.2004	2	0	CU M/MI	166.17424	CU M
SP1	Day 4	09.01.2004	2.05	1.11059	CU M/MI	171.40152	CU M
SP1	Day 4	09.01.2004	2.1	0	CU M/MI	172.76515	CU M
SP1	Day 4	09.01.2004	2.15	0	CU M/MI	172.76515	CU M
SP1	Day 4	09.01.2004	2.2	0	CU M/MI	172.76515	CU M
SP1	Day 4	09.01.2004	2.25	0	CU M/MI	172.76515	CU M
SP1	Day 4	09.01.2004	2.3	0	CU M/MI	172.76515	CU M
SP1	Day 4	09.01.2004	2.35	0	CU M/MI	172.76515	CU M
SP1	Day 4	09.01.2004	2.4	0	CU M/MI	172.76515	CU M
SP1	Day 4	09.01.2004	2.45	0	CU M/MI	172.76515	CU M
SP1	Day 4	09.01.2004	2.5	0	CU M/MI	172.76515	CU M
SP1	Day 4	09.01.2004	2.55	0	CU M/MI	172.76515	CU M
SP1	Day 4	09.01.2004	3	0	CU M/MI	172.76515	CU M
SP1	Day 4	09.01.2004	3.05	0	CU M/MI	172.76515	CU M
SP1	Day 4	09.01.2004	3.1	0	CU M/MI	172.76515	CU M
SP1	Day 4	09.01.2004	3.15	0	CU M/MI	172.76515	CU M
SP1	Day 4	09.01.2004	3.2	0	CU M/MI	172.76515	CU M
SP1	Day 4	09.01.2004	3.25	0	CU M/MI	172.76515	CU M
SP1	Day 4	09.01.2004	3.3	0	CU M/MI	172.72727	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 4	09.01.2004	3.35	0	CU M/MI	172.72727	CU M
SP1	Day 4	09.01.2004	3.4	0	CU M/MI	172.72727	CU M
SP1	Day 4	09.01.2004	3.45	0	CU M/MI	172.72727	CU M
SP1	Day 4	09.01.2004	3.5	0	CU M/MI	172.72727	CU M
SP1	Day 4	09.01.2004	3.55	0	CU M/MI	172.72727	CU M
SP1	Day 4	09.01.2004	4	0	CU M/MI	172.72727	CU M
SP1	Day 4	09.01.2004	4.05	0	CU M/MI	172.72727	CU M
SP1	Day 4	09.01.2004	4.1	0	CU M/MI	172.72727	CU M
SP1	Day 4	09.01.2004	4.15	0	CU M/MI	172.72727	CU M
SP1	Day 4	09.01.2004	4.2	0	CU M/MI	172.68939	CU M
SP1	Day 4	09.01.2004	4.25	0	CU M/MI	172.68939	CU M
SP1	Day 4	09.01.2004	4.3	0	CU M/MI	172.68939	CU M
SP1	Day 4	09.01.2004	4.35	0	CU M/MI	172.68939	CU M
SP1	Day 4	09.01.2004	4.4	0	CU M/MI	172.68939	CU M
SP1	Day 4	09.01.2004	4.45	0	CU M/MI	172.68939	CU M
SP1	Day 4	09.01.2004	4.5	0	CU M/MI	172.68939	CU M
SP1	Day 4	09.01.2004	4.55	0	CU M/MI	172.68939	CU M
SP1	Day 4	09.01.2004	5	0	CU M/MI	172.68939	CU M
SP1	Day 4	09.01.2004	5.05	0	CU M/MI	172.65152	CU M
SP1	Day 4	09.01.2004	5.1	0	CU M/MI	172.65152	CU M
SP1	Day 4	09.01.2004	5.15	0	CU M/MI	172.65152	CU M
SP1	Day 4	09.01.2004	5.2	0	CU M/MI	172.65152	CU M
SP1	Day 4	09.01.2004	5.25	0	CU M/MI	172.65152	CU M
SP1	Day 4	09.01.2004	5.3	0	CU M/MI	172.65152	CU M
SP1	Day 4	09.01.2004	5.35	0	CU M/MI	172.65152	CU M
SP1	Day 4	09.01.2004	5.4	0	CU M/MI	172.65152	CU M
SP1	Day 4	09.01.2004	5.45	0	CU M/MI	172.65152	CU M
SP1	Day 4	09.01.2004	5.5	0	CU M/MI	172.65152	CU M
SP1	Day 4	09.01.2004	5.55	0	CU M/MI	172.61364	CU M
SP1	Day 5	09.01.2004	6	0	CU M/MI	172.61364	CU M
SP1	Day 5	09.01.2004	6.05	0	CU M/MI	172.61364	CU M
SP1	Day 5	09.01.2004	6.1	0	CU M/MI	172.61364	CU M
SP1	Day 5	09.01.2004	6.15	0	CU M/MI	172.80303	CU M
SP1	Day 5	09.01.2004	6.2	0	CU M/MI	172.80303	CU M
SP1	Day 5	09.01.2004	6.25	0	CU M/MI	172.80303	CU M
SP1	Day 5	09.01.2004	6.3	0	CU M/MI	172.80303	CU M
SP1	Day 5	09.01.2004	6.35	0	CU M/MI	172.80303	CU M
SP1	Day 5	09.01.2004	6.4	0	CU M/MI	172.76515	CU M
SP1	Day 5	09.01.2004	6.45	0	CU M/MI	172.76515	CU M
SP1	Day 5	09.01.2004	6.5	0	CU M/MI	172.76515	CU M
SP1	Day 5	09.01.2004	6.55	0	CU M/MI	172.76515	CU M
SP1	Day 5	09.01.2004	7	0	CU M/MI	172.76515	CU M
SP1	Day 5	09.01.2004	7.05	0.00021	CU M/MI	172.76515	CU M
SP1	Day 5	09.01.2004	7.1	0	CU M/MI	172.76515	CU M
SP1	Day 5	09.01.2004	7.15	0	CU M/MI	172.76515	CU M
SP1	Day 5	09.01.2004	7.2	0	CU M/MI	172.72727	CU M
SP1	Day 5	09.01.2004	7.25	0	CU M/MI	172.72727	CU M
SP1	Day 5	09.01.2004	7.3	0	CU M/MI	172.76515	CU M
SP1	Day 5	09.01.2004	7.35	0	CU M/MI	172.76515	CU M
SP1	Day 5	09.01.2004	7.4	0	CU M/MI	172.76515	CU M
SP1	Day 5	09.01.2004	7.45	0	CU M/MI	172.76515	CU M
SP1	Day 5	09.01.2004	7.5	0	CU M/MI	172.76515	CU M
SP1	Day 5	09.01.2004	7.55	0	CU M/MI	172.76515	CU M

Appendix B
Raw Flow from Galley (SP-1)
23 August Through 3 September 2004

Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 5	09.01.2004	8	0	CU M/MI	172.76515	CU M
SP1	Day 5	09.01.2004	8.05	0	CU M/MI	172.72727	CU M
SP1	Day 5	09.01.2004	8.1	0	CU M/MI	172.76515	CU M
SP1	Day 5	09.01.2004	8.15	0	CU M/MI	172.76515	CU M
SP1	Day 5	09.01.2004	8.2	0	CU M/MI	172.76515	CU M
SP1	Day 5	09.01.2004	8.25	0	CU M/MI	172.76515	CU M
SP1	Day 5	09.01.2004	8.3	0	CU M/MI	172.76515	CU M
SP1	Day 5	09.01.2004	8.35	0	CU M/MI	172.76515	CU M
SP1	Day 5	09.01.2004	8.4	0	CU M/MI	172.76515	CU M
SP1	Day 5	09.01.2004	8.45	0	CU M/MI	172.76515	CU M
SP1	Day 5	09.01.2004	8.5	0	CU M/MI	172.72727	CU M
SP1	Day 5	09.01.2004	8.55	0	CU M/MI	172.72727	CU M
SP1	Day 5	09.01.2004	9	0	CU M/MI	172.76515	CU M
SP1	Day 5	09.01.2004	9.05	0	CU M/MI	172.72727	CU M
SP1	Day 5	09.01.2004	9.1	0	CU M/MI	172.72727	CU M
SP1	Day 5	09.01.2004	9.15	0	CU M/MI	172.72727	CU M
SP1	Day 5	09.01.2004	9.2	0	CU M/MI	172.72727	CU M
SP1	Day 5	09.01.2004	9.25	0	CU M/MI	172.72727	CU M
SP1	Day 5	09.01.2004	9.3	0	CU M/MI	172.72727	CU M
SP1	Day 5	09.01.2004	9.35	0	CU M/MI	172.72727	CU M
SP1	Day 5	09.01.2004	9.4	0	CU M/MI	172.72727	CU M
SP1	Day 5	09.01.2004	9.45	0	CU M/MI	172.68939	CU M
SP1	Day 5	09.01.2004	9.5	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	9.55	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	10	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	10.05	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	10.1	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	10.15	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	10.2	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	10.25	0.00004	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	10.3	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	10.35	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	10.4	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	10.45	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	10.5	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	10.55	0.00011	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	11	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	11.05	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	11.1	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	11.15	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	11.2	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	11.25	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	11.3	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	11.35	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	11.4	0	CU M/MI	172.84091	CU M
SP1	Day 5	09.01.2004	11.45	0.54806	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	11.5	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	11.55	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	12	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	12.05	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	12.1	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	12.15	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	12.2	0	CU M/MI	172.87879	CU M

Appendix B
Raw Flow from Galley (SP-1)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 5	09.01.2004	12.25	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	12.3	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	12.35	0	CU M/MI	172.87879	CU M
SP1	Day 5	09.01.2004	12.4	0	CU M/MI	172.84091	CU M
SP1	Day 5	09.01.2004	12.45	0	CU M/MI	172.84091	CU M
SP1	Day 5	09.01.2004	12.5	0	CU M/MI	172.84091	CU M
SP1	Day 5	09.01.2004	12.55	0	CU M/MI	172.84091	CU M
SP1	Day 5	09.01.2004	13	0	CU M/MI	172.84091	CU M
SP1	Day 5	09.01.2004	13.05	0	CU M/MI	172.84091	CU M
SP1	Day 5	09.01.2004	13.1	0	CU M/MI	172.84091	CU M
SP1	Day 5	09.01.2004	13.15	0	CU M/MI	172.84091	CU M
SP1	Day 5	09.01.2004	13.2	0	CU M/MI	172.84091	CU M
SP1	Day 5	09.01.2004	13.25	0	CU M/MI	172.84091	CU M
SP1	Day 5	09.01.2004	13.3	0.00011	CU M/MI	172.99242	CU M
SP1	Day 5	09.01.2004	13.35	0	CU M/MI	172.99242	CU M
SP1	Day 5	09.01.2004	13.4	0	CU M/MI	172.99242	CU M
SP1	Day 5	09.01.2004	13.45	0	CU M/MI	172.99242	CU M
SP1	Day 5	09.01.2004	13.5	0	CU M/MI	172.99242	CU M
SP1	Day 5	09.01.2004	13.55	0	CU M/MI	172.99242	CU M
SP1	Day 5	09.01.2004	14	0	CU M/MI	172.99242	CU M
SP1	Day 5	09.01.2004	14.05	0	CU M/MI	172.99242	CU M
SP1	Day 5	09.01.2004	14.1	0	CU M/MI	172.99242	CU M
SP1	Day 5	09.01.2004	14.15	0	CU M/MI	172.99242	CU M
SP1	Day 5	09.01.2004	14.2	0	CU M/MI	172.99242	CU M
SP1	Day 5	09.01.2004	14.25	0	CU M/MI	172.95455	CU M
SP1	Day 5	09.01.2004	14.3	0	CU M/MI	172.95455	CU M
SP1	Day 5	09.01.2004	14.35	0	CU M/MI	172.95455	CU M
SP1	Day 5	09.01.2004	14.4	0	CU M/MI	172.95455	CU M
SP1	Day 5	09.01.2004	14.45	0	CU M/MI	172.95455	CU M
SP1	Day 5	09.01.2004	14.5	0	CU M/MI	172.95455	CU M
SP1	Day 5	09.01.2004	14.55	0	CU M/MI	172.95455	CU M
SP1	Day 5	09.01.2004	15	0	CU M/MI	172.95455	CU M
SP1	Day 5	09.01.2004	15.05	0	CU M/MI	172.95455	CU M
SP1	Day 5	09.01.2004	15.1	0	CU M/MI	172.95455	CU M
SP1	Day 5	09.01.2004	15.15	0	CU M/MI	172.95455	CU M
SP1	Day 5	09.01.2004	15.2	0	CU M/MI	172.95455	CU M
SP1	Day 5	09.01.2004	15.25	0	CU M/MI	172.95455	CU M
SP1	Day 5	09.01.2004	15.3	0	CU M/MI	172.95455	CU M
SP1	Day 5	09.01.2004	15.35	0	CU M/MI	172.95455	CU M
SP1	Day 5	09.01.2004	15.4	0	CU M/MI	172.95455	CU M
SP1	Day 5	09.01.2004	15.45	0	CU M/MI	172.95455	CU M
SP1	Day 5	09.01.2004	15.5	0	CU M/MI	172.91667	CU M
SP1	Day 5	09.01.2004	15.55	0	CU M/MI	173.10606	CU M
SP1	Day 5	09.01.2004	16	0	CU M/MI	173.10606	CU M
SP1	Day 5	09.01.2004	16.05	0	CU M/MI	173.10606	CU M
SP1	Day 5	09.01.2004	16.1	0	CU M/MI	173.10606	CU M
SP1	Day 5	09.01.2004	16.15	0	CU M/MI	173.06818	CU M
SP1	Day 5	09.01.2004	16.2	0	CU M/MI	173.06818	CU M
SP1	Day 5	09.01.2004	16.25	0	CU M/MI	173.06818	CU M
SP1	Day 5	09.01.2004	16.3	0.00001	CU M/MI	173.06818	CU M
SP1	Day 5	09.01.2004	16.35	0	CU M/MI	173.06818	CU M
SP1	Day 5	09.01.2004	16.4	0.00004	CU M/MI	173.06818	CU M
SP1	Day 5	09.01.2004	16.45	0	CU M/MI	173.06818	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 5	09.01.2004	16.5	0	CU M/MI	173.06818	CU M
SP1	Day 5	09.01.2004	16.55	0.01161	CU M/MI	173.2197	CU M
SP1	Day 5	09.01.2004	17	0	CU M/MI	173.18182	CU M
SP1	Day 5	09.01.2004	17.05	0	CU M/MI	173.18182	CU M
SP1	Day 5	09.01.2004	17.1	0	CU M/MI	173.18182	CU M
SP1	Day 5	09.01.2004	17.15	0	CU M/MI	173.18182	CU M
SP1	Day 5	09.01.2004	17.2	0.00003	CU M/MI	173.18182	CU M
SP1	Day 5	09.01.2004	17.25	0	CU M/MI	173.18182	CU M
SP1	Day 5	09.01.2004	17.3	0	CU M/MI	173.18182	CU M
SP1	Day 5	09.01.2004	17.35	0	CU M/MI	173.18182	CU M
SP1	Day 5	09.01.2004	17.4	0	CU M/MI	173.18182	CU M
SP1	Day 5	09.01.2004	17.45	0	CU M/MI	173.18182	CU M
SP1	Day 5	09.01.2004	17.5	0	CU M/MI	173.18182	CU M
SP1	Day 5	09.01.2004	17.55	0	CU M/MI	173.18182	CU M
SP1	Day 5	09.01.2004	18	0	CU M/MI	173.18182	CU M
SP1	Day 5	09.01.2004	18.05	0	CU M/MI	173.18182	CU M
SP1	Day 5	09.01.2004	18.1	0	CU M/MI	173.18182	CU M
SP1	Day 5	09.01.2004	18.15	0.00198	CU M/MI	173.37121	CU M
SP1	Day 5	09.01.2004	18.2	0	CU M/MI	173.37121	CU M
SP1	Day 5	09.01.2004	18.25	0	CU M/MI	173.37121	CU M
SP1	Day 5	09.01.2004	18.3	0	CU M/MI	173.37121	CU M
SP1	Day 5	09.01.2004	18.35	0	CU M/MI	173.37121	CU M
SP1	Day 5	09.01.2004	18.4	0	CU M/MI	173.37121	CU M
SP1	Day 5	09.01.2004	18.45	0	CU M/MI	173.37121	CU M
SP1	Day 5	09.01.2004	18.5	0	CU M/MI	173.37121	CU M
SP1	Day 5	09.01.2004	18.55	0	CU M/MI	173.37121	CU M
SP1	Day 5	09.01.2004	19	0	CU M/MI	173.37121	CU M
SP1	Day 5	09.01.2004	19.05	0	CU M/MI	173.37121	CU M
SP1	Day 5	09.01.2004	19.1	0	CU M/MI	173.33333	CU M
SP1	Day 5	09.01.2004	19.15	0	CU M/MI	173.33333	CU M
SP1	Day 5	09.01.2004	19.2	0	CU M/MI	173.33333	CU M
SP1	Day 5	09.01.2004	19.25	0	CU M/MI	173.33333	CU M
SP1	Day 5	09.01.2004	19.3	0	CU M/MI	173.56061	CU M
SP1	Day 5	09.01.2004	19.35	0	CU M/MI	173.52273	CU M
SP1	Day 5	09.01.2004	19.55	0	CU M/MI	173.52273	CU M
SP1	Day 5	09.01.2004	20	0	CU M/MI	173.52273	CU M
SP1	Day 5	09.01.2004	20.05	0	CU M/MI	173.52273	CU M
SP1	Day 5	09.01.2004	20.1	0	CU M/MI	173.52273	CU M
SP1	Day 5	09.01.2004	20.15	0	CU M/MI	173.56061	CU M
SP1	Day 5	09.01.2004	20.2	0	CU M/MI	173.56061	CU M
SP1	Day 5	09.01.2004	20.25	0	CU M/MI	173.56061	CU M
SP1	Day 5	09.01.2004	20.3	0	CU M/MI	173.56061	CU M
SP1	Day 5	09.01.2004	20.35	0	CU M/MI	173.56061	CU M
SP1	Day 5	09.01.2004	20.4	0	CU M/MI	173.56061	CU M
SP1	Day 5	09.01.2004	20.45	0	CU M/MI	173.52273	CU M
SP1	Day 5	09.01.2004	20.5	0	CU M/MI	173.52273	CU M
SP1	Day 5	09.01.2004	20.55	0	CU M/MI	173.52273	CU M
SP1	Day 5	09.01.2004	21	0	CU M/MI	173.52273	CU M
SP1	Day 5	09.01.2004	21.05	0	CU M/MI	173.52273	CU M
SP1	Day 5	09.01.2004	21.1	0	CU M/MI	173.52273	CU M
SP1	Day 5	09.01.2004	21.15	0	CU M/MI	173.52273	CU M
SP1	Day 5	09.01.2004	21.2	0	CU M/MI	173.52273	CU M
SP1	Day 5	09.01.2004	21.25	0	CU M/MI	173.52273	CU M

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Raw Flow from Galley (SP-1)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 5	09.01.2004	21.3	0	CU M/MI	173.52273	CU M
SP1	Day 5	09.01.2004	21.35	0	CU M/MI	173.52273	CU M
SP1	Day 5	09.01.2004	21.4	0	CU M/MI	173.48485	CU M
SP1	Day 5	09.01.2004	21.45	0	CU M/MI	173.48485	CU M
SP1	Day 5	09.01.2004	21.5	0	CU M/MI	173.48485	CU M
SP1	Day 5	09.01.2004	21.55	0	CU M/MI	173.48485	CU M
SP1	Day 5	09.01.2004	22	0	CU M/MI	173.48485	CU M
SP1	Day 5	09.01.2004	22.05	0.00176	CU M/MI	173.59848	CU M
SP1	Day 5	09.01.2004	22.1	0	CU M/MI	173.59848	CU M
SP1	Day 5	09.01.2004	22.15	0	CU M/MI	173.59848	CU M
SP1	Day 5	09.01.2004	22.2	0	CU M/MI	173.56061	CU M
SP1	Day 5	09.01.2004	22.25	0	CU M/MI	173.56061	CU M
SP1	Day 5	09.01.2004	22.3	0	CU M/MI	173.56061	CU M
SP1	Day 5	09.01.2004	22.35	0	CU M/MI	173.56061	CU M
SP1	Day 5	09.01.2004	22.4	0	CU M/MI	173.56061	CU M
SP1	Day 5	09.01.2004	22.45	0	CU M/MI	173.56061	CU M
SP1	Day 5	09.01.2004	22.5	0	CU M/MI	173.56061	CU M
SP1	Day 5	09.01.2004	22.55	0	CU M/MI	173.56061	CU M
SP1	Day 5	09.01.2004	23	0	CU M/MI	173.75	CU M
SP1	Day 5	09.01.2004	23.05	0	CU M/MI	173.71212	CU M
SP1	Day 5	09.01.2004	23.1	0	CU M/MI	173.71212	CU M
SP1	Day 5	09.01.2004	23.15	0	CU M/MI	173.71212	CU M
SP1	Day 5	09.01.2004	23.2	0	CU M/MI	173.71212	CU M
SP1	Day 5	09.01.2004	23.25	0	CU M/MI	173.71212	CU M
SP1	Day 5	09.01.2004	23.3	0	CU M/MI	173.71212	CU M
SP1	Day 5	09.01.2004	23.35	0	CU M/MI	173.78788	CU M
SP1	Day 5	09.01.2004	23.4	0	CU M/MI	173.78788	CU M
SP1	Day 5	09.01.2004	23.45	0	CU M/MI	173.78788	CU M
SP1	Day 5	09.01.2004	23.5	0	CU M/MI	173.78788	CU M
SP1	Day 5	09.01.2004	23.55	0	CU M/MI	173.78788	CU M
SP1	Day 5	09.02.2004	0	0	CU M/MI	173.78788	CU M
SP1	Day 5	09.02.2004	0.05	0	CU M/MI	173.78788	CU M
SP1	Day 5	09.02.2004	0.1	0	CU M/MI	173.78788	CU M
SP1	Day 5	09.02.2004	0.15	0	CU M/MI	173.78788	CU M
SP1	Day 5	09.02.2004	0.2	0	CU M/MI	173.78788	CU M
SP1	Day 5	09.02.2004	0.25	0	CU M/MI	173.86364	CU M
SP1	Day 5	09.02.2004	0.3	0	CU M/MI	173.86364	CU M
SP1	Day 5	09.02.2004	0.35	0	CU M/MI	173.86364	CU M
SP1	Day 5	09.02.2004	0.4	0	CU M/MI	173.86364	CU M
SP1	Day 5	09.02.2004	0.45	0	CU M/MI	173.86364	CU M
SP1	Day 5	09.02.2004	0.5	0	CU M/MI	173.86364	CU M
SP1	Day 5	09.02.2004	0.55	0	CU M/MI	173.82576	CU M
SP1	Day 5	09.02.2004	1	0	CU M/MI	173.82576	CU M
SP1	Day 5	09.02.2004	1.05	0.70562	CU M/MI	173.93939	CU M
SP1	Day 5	09.02.2004	1.1	0.0001	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	1.15	0.00033	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	1.2	0.00014	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	1.25	0.00029	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	1.3	0.00022	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	1.35	0.00067	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	1.4	0.00033	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	1.45	0	CU M/MI	174.01515	CU M
SP1	Day 5	09.02.2004	1.5	0	CU M/MI	173.97727	CU M

Appendix B
Raw Flow from Galley (SP-1)
23 August Through 3 September 2004

Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 5	09.02.2004	1.55	0.0006	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	2	0	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	2.05	0	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	2.1	0	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	2.15	0	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	2.2	0.00002	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	2.25	0	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	2.3	0	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	2.35	0	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	2.4	0	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	2.45	0	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	2.5	0	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	2.55	0	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	3	0	CU M/MI	174.01515	CU M
SP1	Day 5	09.02.2004	3.05	0	CU M/MI	174.01515	CU M
SP1	Day 5	09.02.2004	3.1	0	CU M/MI	174.01515	CU M
SP1	Day 5	09.02.2004	3.15	0	CU M/MI	174.01515	CU M
SP1	Day 5	09.02.2004	3.2	0	CU M/MI	174.01515	CU M
SP1	Day 5	09.02.2004	3.25	0	CU M/MI	174.01515	CU M
SP1	Day 5	09.02.2004	3.3	0	CU M/MI	174.01515	CU M
SP1	Day 5	09.02.2004	3.35	0.00003	CU M/MI	174.01515	CU M
SP1	Day 5	09.02.2004	3.4	0	CU M/MI	174.01515	CU M
SP1	Day 5	09.02.2004	3.45	0	CU M/MI	174.01515	CU M
SP1	Day 5	09.02.2004	3.5	0	CU M/MI	174.01515	CU M
SP1	Day 5	09.02.2004	3.55	0	CU M/MI	174.01515	CU M
SP1	Day 5	09.02.2004	4	0	CU M/MI	174.01515	CU M
SP1	Day 5	09.02.2004	4.05	0	CU M/MI	174.01515	CU M
SP1	Day 5	09.02.2004	4.1	0	CU M/MI	174.01515	CU M
SP1	Day 5	09.02.2004	4.15	0	CU M/MI	174.01515	CU M
SP1	Day 5	09.02.2004	4.2	0	CU M/MI	174.01515	CU M
SP1	Day 5	09.02.2004	4.25	0	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	4.3	0	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	4.35	0	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	4.4	0	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	4.45	0	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	4.5	0	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	4.55	0	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	5	0	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	5.05	0	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	5.1	0	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	5.15	0	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	5.2	0	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	5.25	0	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	5.3	0	CU M/MI	173.97727	CU M
SP1	Day 5	09.02.2004	5.35	0	CU M/MI	173.93939	CU M
SP1	Day 5	09.02.2004	5.4	0	CU M/MI	173.93939	CU M
SP1	Day 5	09.02.2004	5.45	0	CU M/MI	173.93939	CU M
SP1	Day 5	09.02.2004	5.5	0	CU M/MI	173.93939	CU M
SP1	Day 5	09.02.2004	5.55	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	6	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	6.05	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	6.1	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	6.15	0	CU M/MI	173.93939	CU M

Appendix B
Raw Flow from Galley (SP-1)
23 August Through 3 September 2004

Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 6	09.02.2004	6.2	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	6.25	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	6.3	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	6.35	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	6.4	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	6.45	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	6.5	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	6.55	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	7	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	7.05	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	7.1	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	7.15	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	7.2	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	7.25	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	7.3	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	7.35	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	7.4	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	7.45	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	7.5	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	7.55	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	8	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	8.05	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	8.1	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	8.15	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	8.2	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	8.25	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	8.3	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	8.35	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	8.4	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	8.45	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	8.5	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	8.55	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	9	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	9.05	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	9.1	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	9.15	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	9.2	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	9.25	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	9.3	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	9.35	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	9.4	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	9.45	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	9.5	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	9.55	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	10	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	10.05	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	10.1	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	10.15	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	10.2	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	10.25	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	10.3	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	10.35	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	10.4	0	CU M/MI	173.93939	CU M

Appendix B
Raw Flow from Galley (SP-1)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP1	Day 6	09.02.2004	10.45	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	10.5	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	10.55	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	11	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	11.05	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	11.1	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	11.15	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	11.2	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	11.25	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	11.3	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	11.35	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	11.4	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	11.45	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	11.5	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	11.55	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	12	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	12.05	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	12.1	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	12.15	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	12.2	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	12.25	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	12.3	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	12.35	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	12.4	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	12.45	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	12.5	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	12.55	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	13	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	13.05	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	13.1	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	13.15	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	13.2	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	13.25	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	13.3	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	13.35	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	13.4	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	13.45	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	13.5	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	13.55	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	14	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	14.05	0	CU M/MI	173.93939	CU M
SP1	Day 6	09.02.2004	14.1	0	CU M/MI	173.93939	CU M

Appendix B
Raw Flow from Accommodations (SP-3)
23 August Through 3 September 2004

Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3		08.24.2004	17.55	0.01372	CU M/MI	15.6699	CU M
SP3		08.24.2004	18.05	0.01366	CU M/MI	15.8213	CU M
SP3		08.24.2004	18.1	0.01368	CU M/MI	15.897	CU M
SP3		08.24.2004	18.15	0.01325	CU M/MI	15.9727	CU M
SP3		08.24.2004	18.2	0.59522	CU M/MI	16.84325	CU M
SP3		08.24.2004	18.25	0.01345	CU M/MI	17.7895	CU M
SP3		08.24.2004	18.3	0.01371	CU M/MI	17.8652	CU M
SP3		08.24.2004	18.35	0.01357	CU M/MI	17.9409	CU M
SP3		08.24.2004	18.4	0.01354	CU M/MI	18.0166	CU M
SP3		08.24.2004	18.45	0.01349	CU M/MI	18.0923	CU M
SP3		08.24.2004	18.5	0.01362	CU M/MI	18.13015	CU M
SP3		08.24.2004	18.55	0.01363	CU M/MI	18.20585	CU M
SP3		08.24.2004	19	0.01397	CU M/MI	18.28155	CU M
SP3		08.24.2004	19.05	0.01326	CU M/MI	18.35725	CU M
SP3		08.24.2004	19.1	0.01334	CU M/MI	18.3951	CU M
SP3		08.24.2004	19.15	0.51703	CU M/MI	18.81145	CU M
SP3		08.24.2004	19.2	0.01365	CU M/MI	20.2876	CU M
SP3		08.24.2004	19.25	0.01374	CU M/MI	20.32545	CU M
SP3		08.24.2004	19.3	0.01367	CU M/MI	20.40115	CU M
SP3		08.24.2004	19.35	0.01359	CU M/MI	20.47685	CU M
SP3		08.24.2004	19.4	0.01341	CU M/MI	20.55255	CU M
SP3		08.24.2004	19.45	0.01348	CU M/MI	20.62825	CU M
SP3		08.24.2004	19.5	0.01335	CU M/MI	20.6661	CU M
SP3		08.24.2004	19.55	0.01334	CU M/MI	20.7418	CU M
SP3		08.24.2004	20	0.01348	CU M/MI	20.8175	CU M
SP3		08.24.2004	20.05	0.01314	CU M/MI	20.8932	CU M
SP3		08.24.2004	20.1	0.01332	CU M/MI	20.93105	CU M
SP3		08.24.2004	20.15	0.60317	CU M/MI	21.6502	CU M
SP3		08.24.2004	20.2	0.01328	CU M/MI	22.74785	CU M
SP3		08.24.2004	20.25	0.01387	CU M/MI	22.7857	CU M
SP3		08.24.2004	20.3	0.01325	CU M/MI	22.8614	CU M
SP3		08.24.2004	20.35	0.01355	CU M/MI	22.9371	CU M
SP3		08.24.2004	20.4	0.01364	CU M/MI	23.0128	CU M
SP3		08.24.2004	20.45	0.01321	CU M/MI	23.05065	CU M
SP3		08.24.2004	20.5	0.01359	CU M/MI	23.12635	CU M
SP3		08.24.2004	20.55	0.01308	CU M/MI	23.20205	CU M
SP3		08.24.2004	21	0.01324	CU M/MI	23.27775	CU M
SP3		08.24.2004	21.05	0.0131	CU M/MI	23.3156	CU M
SP3		08.24.2004	21.1	0.01321	CU M/MI	23.3913	CU M
SP3		08.24.2004	21.15	0.01303	CU M/MI	23.467	CU M
SP3		08.24.2004	21.2	0.0127	CU M/MI	23.5427	CU M
SP3		08.24.2004	21.25	0.01253	CU M/MI	23.58055	CU M
SP3		08.24.2004	21.3	0.01318	CU M/MI	23.65625	CU M
SP3		08.24.2004	21.35	0.01292	CU M/MI	23.6941	CU M
SP3		08.24.2004	21.4	0.01282	CU M/MI	23.7698	CU M
SP3		08.24.2004	21.45	0.50324	CU M/MI	24.6782	CU M
SP3		08.24.2004	21.5	0.01329	CU M/MI	25.2081	CU M
SP3		08.24.2004	21.55	0.01339	CU M/MI	25.2838	CU M
SP3		08.24.2004	22	0.01318	CU M/MI	25.32165	CU M
SP3		08.24.2004	22.05	0.01318	CU M/MI	25.39735	CU M
SP3		08.24.2004	22.1	0.01341	CU M/MI	25.47305	CU M
SP3		08.24.2004	22.15	0.01312	CU M/MI	25.54875	CU M
SP3		08.24.2004	22.2	0.013	CU M/MI	25.5866	CU M

Appendix B
Raw Flow from Accommodations (SP-3)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3		08.24.2004	22.25	0.01266	CU M/MI	25.6623	CU M
SP3		08.24.2004	22.3	0.01309	CU M/MI	25.738	CU M
SP3		08.24.2004	22.35	0.01308	CU M/MI	25.8137	CU M
SP3		08.24.2004	22.4	0.01263	CU M/MI	25.85155	CU M
SP3		08.24.2004	22.45	0.01284	CU M/MI	25.92725	CU M
SP3		08.24.2004	22.5	0.01289	CU M/MI	26.00295	CU M
SP3		08.24.2004	22.55	0.01273	CU M/MI	26.0408	CU M
SP3		08.24.2004	23	0.01629	CU M/MI	24.7539	CU M
SP3		08.24.2004	23.05	0.01318	CU M/MI	24.79175	CU M
SP3		08.24.2004	23.1	0.01329	CU M/MI	24.86745	CU M
SP3		08.24.2004	23.15	0.01301	CU M/MI	24.94315	CU M
SP3		08.24.2004	23.2	0.01317	CU M/MI	25.01885	CU M
SP3		08.24.2004	23.25	0.01308	CU M/MI	25.0567	CU M
SP3		08.24.2004	23.3	0.01309	CU M/MI	25.1324	CU M
SP3		08.24.2004	23.35	0.01296	CU M/MI	25.2081	CU M
SP3		08.24.2004	23.4	0.01306	CU M/MI	25.2838	CU M
SP3		08.24.2004	23.45	0.01293	CU M/MI	25.32165	CU M
SP3		08.24.2004	23.5	0.01287	CU M/MI	25.39735	CU M
SP3		08.24.2004	23.55	0.01314	CU M/MI	25.47305	CU M
SP3		08.25.2004	0	0.0126	CU M/MI	25.5109	CU M
SP3		08.25.2004	0.05	0.01289	CU M/MI	25.5866	CU M
SP3		08.25.2004	0.1	0.01265	CU M/MI	25.6623	CU M
SP3		08.25.2004	0.15	0.50577	CU M/MI	27.21415	CU M
SP3		08.25.2004	0.2	0.01332	CU M/MI	27.44125	CU M
SP3		08.25.2004	0.25	0.01332	CU M/MI	27.51695	CU M
SP3		08.25.2004	0.3	0.01335	CU M/MI	27.59265	CU M
SP3		08.25.2004	0.35	0.01313	CU M/MI	27.66835	CU M
SP3		08.25.2004	0.4	0.01337	CU M/MI	27.7062	CU M
SP3		08.25.2004	0.45	0.01304	CU M/MI	27.7819	CU M
SP3		08.25.2004	0.5	0.01314	CU M/MI	27.8576	CU M
SP3		08.25.2004	0.55	0.01316	CU M/MI	27.9333	CU M
SP3		08.25.2004	1	0.013	CU M/MI	27.97115	CU M
SP3		08.25.2004	1.05	0.01265	CU M/MI	28.04685	CU M
SP3		08.25.2004	1.1	0.01263	CU M/MI	28.12255	CU M
SP3		08.25.2004	1.15	0.01298	CU M/MI	28.1604	CU M
SP3		08.25.2004	1.2	0.01265	CU M/MI	28.2361	CU M
SP3		08.25.2004	1.25	0.01247	CU M/MI	28.3118	CU M
SP3		08.25.2004	1.3	0.01288	CU M/MI	28.3875	CU M
SP3		08.25.2004	1.35	0.01228	CU M/MI	28.42535	CU M
SP3		08.25.2004	1.4	0.01277	CU M/MI	28.50105	CU M
SP3		08.25.2004	1.45	0.01248	CU M/MI	28.57675	CU M
SP3		08.25.2004	1.5	0.01281	CU M/MI	28.6146	CU M
SP3		08.25.2004	1.55	0	CU M/MI	28.65245	CU M
SP3		08.25.2004	2	0.01263	CU M/MI	28.6146	CU M
SP3		08.25.2004	2.05	0.01271	CU M/MI	28.65245	CU M
SP3		08.25.2004	2.1	0.01273	CU M/MI	28.72815	CU M
SP3		08.25.2004	2.15	0.01212	CU M/MI	28.766	CU M
SP3		08.25.2004	2.2	0.01218	CU M/MI	28.8417	CU M
SP3		08.25.2004	2.25	0.01207	CU M/MI	28.87955	CU M
SP3		08.25.2004	2.3	0.01236	CU M/MI	28.95525	CU M
SP3		08.25.2004	2.35	0	CU M/MI	28.87955	CU M
SP3		08.25.2004	2.4	0	CU M/MI	28.57675	CU M
SP3		08.25.2004	2.45	0	CU M/MI	28.42535	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3		08.25.2004	2.5	0	CU M/MI	28.19825	CU M
SP3		08.25.2004	2.55	0.01329	CU M/MI	28.04685	CU M
SP3		08.25.2004	3	0	CU M/MI	28.04685	CU M
SP3		08.25.2004	3.05	0.01155	CU M/MI	28.009	CU M
SP3		08.25.2004	3.1	0.01238	CU M/MI	28.0847	CU M
SP3		08.25.2004	3.15	0	CU M/MI	27.7819	CU M
SP3		08.25.2004	3.2	0.01128	CU M/MI	27.5548	CU M
SP3		08.25.2004	3.25	0	CU M/MI	27.3277	CU M
SP3		08.25.2004	3.3	0	CU M/MI	27.13845	CU M
SP3		08.25.2004	3.35	0.01264	CU M/MI	27.06275	CU M
SP3		08.25.2004	3.4	0	CU M/MI	26.91135	CU M
SP3		08.25.2004	3.45	0.01149	CU M/MI	26.7221	CU M
SP3		08.25.2004	3.5	0	CU M/MI	26.53285	CU M
SP3		08.25.2004	3.55	0.01216	CU M/MI	26.45715	CU M
SP3		08.25.2004	4	0.01225	CU M/MI	26.38145	CU M
SP3		08.25.2004	4.05	0.01224	CU M/MI	26.38145	CU M
SP3		08.25.2004	4.1	0	CU M/MI	26.15435	CU M
SP3		08.25.2004	4.15	0.00521	CU M/MI	25.8894	CU M
SP3		08.25.2004	4.2	0.01195	CU M/MI	25.738	CU M
SP3		08.25.2004	4.25	0.01212	CU M/MI	25.8137	CU M
SP3		08.25.2004	4.3	0	CU M/MI	25.77585	CU M
SP3		08.25.2004	4.35	0.01229	CU M/MI	25.5866	CU M
SP3		08.25.2004	4.4	0	CU M/MI	25.32165	CU M
SP3		08.25.2004	4.45	0	CU M/MI	25.01885	CU M
SP3		08.25.2004	4.5	0.0128	CU M/MI	24.94315	CU M
SP3		08.25.2004	4.55	0	CU M/MI	24.71605	CU M
SP3		08.25.2004	5	0.01301	CU M/MI	24.4511	CU M
SP3		08.25.2004	5.05	0	CU M/MI	24.3754	CU M
SP3		08.25.2004	5.1	0.01231	CU M/MI	24.2997	CU M
SP3		08.25.2004	5.15	0	CU M/MI	24.26185	CU M
SP3		08.25.2004	5.2	0.01213	CU M/MI	24.18615	CU M
SP3		08.25.2004	5.25	0.01171	CU M/MI	24.0726	CU M
SP3		08.25.2004	5.3	0	CU M/MI	23.7698	CU M
SP3		08.25.2004	5.35	0	CU M/MI	23.467	CU M
SP3		08.25.2004	5.4	0	CU M/MI	23.20205	CU M
SP3		08.25.2004	5.45	0	CU M/MI	22.8614	CU M
SP3		08.25.2004	5.5	0	CU M/MI	22.52075	CU M
SP3		08.25.2004	5.55	0.01173	CU M/MI	22.2558	CU M
SP3		08.25.2004	6	0	CU M/MI	21.99085	CU M
SP3		08.25.2004	6.05	0.00068	CU M/MI	22.59645	CU M
SP3		08.25.2004	6.1	0.01284	CU M/MI	22.6343	CU M
SP3		08.25.2004	6.15	0.01307	CU M/MI	22.71	CU M
SP3		08.25.2004	6.2	0.01309	CU M/MI	22.7857	CU M
SP3		08.25.2004	6.25	0.01331	CU M/MI	22.82355	CU M
SP3		08.25.2004	6.3	0.0134	CU M/MI	22.89925	CU M
SP3		08.25.2004	6.35	0.01298	CU M/MI	22.97495	CU M
SP3		08.25.2004	6.4	0.5037	CU M/MI	23.9212	CU M
SP3		08.25.2004	6.45	0.01356	CU M/MI	24.71605	CU M
SP3		08.25.2004	6.5	0.01317	CU M/MI	24.7539	CU M
SP3		08.25.2004	6.55	0.01315	CU M/MI	24.8296	CU M
SP3		08.25.2004	7	0.01346	CU M/MI	24.9053	CU M
SP3		08.25.2004	7.05	0.01355	CU M/MI	24.981	CU M
SP3		08.25.2004	7.1	0.01367	CU M/MI	25.01885	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3		08.25.2004	7.15	0.01317	CU M/MI	25.09455	CU M
SP3		08.25.2004	7.15	0.01317	CU M/MI	25.09455	CU M
SP3		08.25.2004	7.25	0.0134	CU M/MI	26.9492	CU M
SP3		08.25.2004	7.3	0.01356	CU M/MI	27.0249	CU M
SP3		08.25.2004	7.35	0.01379	CU M/MI	27.06275	CU M
SP3		08.25.2004	7.4	0.01375	CU M/MI	27.13845	CU M
SP3		08.25.2004	7.45	0.01366	CU M/MI	27.21415	CU M
SP3		08.25.2004	7.5	0.01298	CU M/MI	27.28985	CU M
SP3		08.25.2004	7.55	0.01342	CU M/MI	27.36555	CU M
SP3		08.25.2004	8	0.50996	CU M/MI	28.5389	CU M
SP3		08.25.2004	8.05	0.01392	CU M/MI	29.2959	CU M
SP3		08.25.2004	8.1	0.01393	CU M/MI	29.3716	CU M
SP3		08.25.2004	8.15	0.01395	CU M/MI	29.4473	CU M
SP3		08.25.2004	8.2	0.01384	CU M/MI	29.523	CU M
SP3		08.25.2004	8.25	0.01358	CU M/MI	29.5987	CU M
SP3		08.25.2004	8.3	0.01335	CU M/MI	29.63655	CU M
SP3		08.25.2004	8.35	0.0133	CU M/MI	29.71225	CU M
SP3		08.25.2004	8.4	0.01361	CU M/MI	29.78795	CU M
SP3		08.25.2004	8.45	0.01344	CU M/MI	29.86365	CU M
SP3		08.25.2004	8.5	0.01324	CU M/MI	29.9015	CU M
SP3		08.25.2004	8.55	0	CU M/MI	31.07485	CU M
SP3		08.25.2004	9	0.01366	CU M/MI	30.4314	CU M
SP3		08.25.2004	9.05	0.01394	CU M/MI	30.5071	CU M
SP3		08.25.2004	9.1	0.01316	CU M/MI	30.5828	CU M
SP3		08.25.2004	9.2	0.01328	CU M/MI	30.69635	CU M
SP3		08.25.2004	9.25	0.01348	CU M/MI	30.77205	CU M
SP3		08.25.2004	9.3	0.01316	CU M/MI	30.84775	CU M
SP3		08.25.2004	9.35	0.01298	CU M/MI	30.92345	CU M
SP3		08.25.2004	9.4	0.01346	CU M/MI	32.74025	CU M
SP3		08.25.2004	9.45	0.01301	CU M/MI	32.7781	CU M
SP3		08.25.2004	9.5	0.01327	CU M/MI	32.8538	CU M
SP3		08.25.2004	9.55	0.01338	CU M/MI	32.9295	CU M
SP3		08.25.2004	10	0.01349	CU M/MI	33.0052	CU M
SP3		08.25.2004	10.05	0.01307	CU M/MI	33.04305	CU M
SP3		08.25.2004	10.1	0.01338	CU M/MI	33.11875	CU M
SP3		08.25.2004	10.15	0.01318	CU M/MI	33.19445	CU M
SP3		08.25.2004	10.2	0.0133	CU M/MI	33.27015	CU M
SP3		08.25.2004	10.25	0.01312	CU M/MI	33.308	CU M
SP3		08.25.2004	10.3	0.01271	CU M/MI	33.3837	CU M
SP3		08.25.2004	10.35	0.01311	CU M/MI	33.4594	CU M
SP3		08.25.2004	10.4	0.01353	CU M/MI	34.5949	CU M
SP3		08.25.2004	10.45	0.01338	CU M/MI	34.6706	CU M
SP3		08.25.2004	10.5	0.01341	CU M/MI	34.7463	CU M
SP3		08.25.2004	10.55	0.01347	CU M/MI	34.822	CU M
SP3		08.25.2004	11	0.01346	CU M/MI	34.85985	CU M
SP3		08.25.2004	11.05	0.01346	CU M/MI	34.93555	CU M
SP3		08.25.2004	11.1	0.01326	CU M/MI	35.01125	CU M
SP3		08.25.2004	11.15	0.01323	CU M/MI	35.08695	CU M
SP3		08.25.2004	11.2	0.01258	CU M/MI	35.1248	CU M
SP3		08.25.2004	11.25	0.01304	CU M/MI	35.2005	CU M
SP3		08.25.2004	11.3	0.0133	CU M/MI	35.2762	CU M
SP3		08.25.2004	11.35	0.01296	CU M/MI	35.31405	CU M
SP3		08.25.2004	11.4	0.01282	CU M/MI	35.38975	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3		08.25.2004	11.45	0.01285	CU M/MI	35.46545	CU M
SP3		08.25.2004	11.5	0.01299	CU M/MI	35.54115	CU M
SP3		08.25.2004	11.55	0.01273	CU M/MI	35.579	CU M
SP3		08.25.2004	12	0.01307	CU M/MI	35.6547	CU M
SP3		08.25.2004	12.05	0.01319	CU M/MI	35.7304	CU M
SP3		08.25.2004	12.1	0.01265	CU M/MI	35.76825	CU M
SP3		08.25.2004	12.15	0.01281	CU M/MI	35.84395	CU M
SP3		08.25.2004	12.2	0.01243	CU M/MI	35.91965	CU M
SP3		08.25.2004	12.25	0.01261	CU M/MI	35.9575	CU M
SP3		08.25.2004	12.3	0.01267	CU M/MI	36.0332	CU M
SP3		08.25.2004	12.35	0.0127	CU M/MI	36.1089	CU M
SP3		08.25.2004	12.4	0.01266	CU M/MI	36.14675	CU M
SP3		08.25.2004	12.45	0.01254	CU M/MI	36.22245	CU M
SP3		08.25.2004	12.5	0.01264	CU M/MI	36.29815	CU M
SP3		08.25.2004	12.55	0.01296	CU M/MI	36.37385	CU M
SP3		08.25.2004	13	0.01258	CU M/MI	36.4117	CU M
SP3		08.25.2004	13.05	0.01264	CU M/MI	36.4874	CU M
SP3		08.25.2004	13.1	0.01258	CU M/MI	36.5631	CU M
SP3		08.25.2004	13.15	0.51981	CU M/MI	36.82805	CU M
SP3		08.25.2004	13.2	0.01317	CU M/MI	38.2285	CU M
SP3		08.25.2004	13.25	0.01315	CU M/MI	38.3042	CU M
SP3		08.25.2004	13.3	0.01301	CU M/MI	38.3799	CU M
SP3		08.25.2004	13.35	0.01327	CU M/MI	38.41775	CU M
SP3		08.25.2004	13.4	0.01312	CU M/MI	38.49345	CU M
SP3		08.25.2004	13.45	0.0132	CU M/MI	38.56915	CU M
SP3		08.25.2004	13.5	0.01269	CU M/MI	38.607	CU M
SP3		08.25.2004	13.55	0.01286	CU M/MI	38.6827	CU M
SP3		08.25.2004	14	0.01292	CU M/MI	38.7584	CU M
SP3		08.25.2004	14.05	0.01304	CU M/MI	38.8341	CU M
SP3		08.25.2004	14.1	0.01281	CU M/MI	38.87195	CU M
SP3		08.25.2004	14.15	0.0131	CU M/MI	38.94765	CU M
SP3		08.25.2004	14.2	0.01281	CU M/MI	39.02335	CU M
SP3		08.25.2004	14.25	0.01273	CU M/MI	39.0612	CU M
SP3		08.25.2004	14.3	0.01232	CU M/MI	39.1369	CU M
SP3		08.25.2004	14.35	0.01272	CU M/MI	39.2126	CU M
SP3		08.25.2004	14.4	0.01267	CU M/MI	39.25045	CU M
SP3		08.25.2004	14.45	0.01278	CU M/MI	39.32615	CU M
SP3		08.25.2004	14.5	0.01274	CU M/MI	39.40185	CU M
SP3		08.25.2004	14.55	0.01277	CU M/MI	39.4397	CU M
SP3		08.25.2004	15	0.01288	CU M/MI	39.5154	CU M
SP3		08.25.2004	15.05	0.0127	CU M/MI	39.5911	CU M
SP3		08.25.2004	15.1	0.01272	CU M/MI	39.6668	CU M
SP3		08.25.2004	15.15	0.01248	CU M/MI	39.70465	CU M
SP3		08.25.2004	15.2	0.60392	CU M/MI	39.4397	CU M
SP3		08.25.2004	15.25	0.01324	CU M/MI	40.91585	CU M
SP3		08.25.2004	15.3	0.01328	CU M/MI	40.99155	CU M
SP3		08.25.2004	15.35	0.01342	CU M/MI	41.06725	CU M
SP3		08.25.2004	15.4	0.01332	CU M/MI	41.14295	CU M
SP3		08.25.2004	15.45	0.01397	CU M/MI	41.1808	CU M
SP3		08.25.2004	15.5	0.01327	CU M/MI	41.2565	CU M
SP3		08.25.2004	15.55	0.01343	CU M/MI	41.3322	CU M
SP3		08.25.2004	16	0.01319	CU M/MI	41.4079	CU M
SP3		08.25.2004	16.05	0.013	CU M/MI	41.44575	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3		08.25.2004	16.1	0.01276	CU M/MI	41.52145	CU M
SP3		08.25.2004	16.15	0.01311	CU M/MI	41.59715	CU M
SP3		08.25.2004	16.2	0.01318	CU M/MI	41.67285	CU M
SP3		08.25.2004	17.25	0.01324	CU M/MI	43.6789	CU M
SP3		08.25.2004	17.3	0.01343	CU M/MI	43.7546	CU M
SP3		08.25.2004	17.35	0.0132	CU M/MI	43.8303	CU M
SP3		08.25.2004	17.4	0.0129	CU M/MI	43.906	CU M
SP3		08.25.2004	17.45	0.01301	CU M/MI	43.94385	CU M
SP3		08.25.2004	17.5	0.01308	CU M/MI	44.01955	CU M
SP3		08.25.2004	17.55	0.01285	CU M/MI	44.09525	CU M
SP3		08.25.2004	18	0.01298	CU M/MI	44.1331	CU M
SP3		08.25.2004	18.05	0.01326	CU M/MI	44.2088	CU M
SP3		08.25.2004	18.1	0.01267	CU M/MI	44.2845	CU M
SP3		08.25.2004	18.15	0.01312	CU M/MI	45.9499	CU M
SP3		08.25.2004	18.2	0.01347	CU M/MI	45.98775	CU M
SP3		08.25.2004	18.25	0.01327	CU M/MI	46.06345	CU M
SP3		08.25.2004	18.3	0.01298	CU M/MI	46.13915	CU M
SP3		08.25.2004	18.35	0.01338	CU M/MI	46.21485	CU M
SP3		08.25.2004	18.4	0.01321	CU M/MI	46.29055	CU M
SP3		08.25.2004	18.45	0.01351	CU M/MI	46.3284	CU M
SP3		08.25.2004	18.5	0.01416	CU M/MI	46.934	CU M
SP3		08.25.2004	18.55	0.01379	CU M/MI	47.0097	CU M
SP3		08.25.2004	19	0.01391	CU M/MI	47.0854	CU M
SP3		08.25.2004	19.05	0.01352	CU M/MI	47.1611	CU M
SP3		08.25.2004	19.1	0.01364	CU M/MI	47.19895	CU M
SP3		08.25.2004	19.15	0.01364	CU M/MI	47.27465	CU M
SP3		08.25.2004	19.2	0.59661	CU M/MI	47.72885	CU M
SP3		08.25.2004	19.25	0.0137	CU M/MI	49.0536	CU M
SP3		08.25.2004	19.3	0.01366	CU M/MI	49.1293	CU M
SP3		08.25.2004	19.35	0.01376	CU M/MI	49.16715	CU M
SP3		08.25.2004	19.4	0.01393	CU M/MI	49.24285	CU M
SP3		08.25.2004	19.45	0.01384	CU M/MI	49.31855	CU M
SP3		08.25.2004	19.5	0.01351	CU M/MI	49.39425	CU M
SP3		08.25.2004	19.55	0.01378	CU M/MI	49.46995	CU M
SP3		08.25.2004	20	0.01325	CU M/MI	49.5078	CU M
SP3		08.25.2004	20.05	0.01338	CU M/MI	49.5835	CU M
SP3		08.25.2004	20.1	0.0133	CU M/MI	49.6592	CU M
SP3		08.25.2004	20.15	0.52326	CU M/MI	50.07555	CU M
SP3		08.25.2004	20.2	0.01334	CU M/MI	49.24285	CU M
SP3		08.25.2004	20.25	0.01361	CU M/MI	49.2807	CU M
SP3		08.25.2004	20.3	0.01369	CU M/MI	49.3564	CU M
SP3		08.25.2004	20.35	0.01329	CU M/MI	49.4321	CU M
SP3		08.25.2004	20.4	0.01315	CU M/MI	49.5078	CU M
SP3		08.25.2004	20.45	0.01297	CU M/MI	49.5835	CU M
SP3		08.25.2004	20.5	0.01334	CU M/MI	49.62135	CU M
SP3		08.25.2004	20.55	0.01323	CU M/MI	49.69705	CU M
SP3		08.25.2004	21	0.01311	CU M/MI	49.77275	CU M
SP3		08.25.2004	21.05	0.01293	CU M/MI	49.84845	CU M
SP3		08.25.2004	21.1	0.00108	CU M/MI	49.84845	CU M
SP3		08.25.2004	21.15	0.01235	CU M/MI	49.8863	CU M
SP3		08.25.2004	21.2	0	CU M/MI	49.84845	CU M
SP3		08.25.2004	21.25	0.01225	CU M/MI	49.8106	CU M
SP3		08.25.2004	21.3	0.01274	CU M/MI	49.84845	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3		08.25.2004	21.35	0.01272	CU M/MI	49.8863	CU M
SP3		08.25.2004	21.4	0.01292	CU M/MI	49.92415	CU M
SP3		08.25.2004	21.45	0.01256	CU M/MI	49.99985	CU M
SP3		08.25.2004	21.5	0	CU M/MI	50.0377	CU M
SP3		08.25.2004	21.55	0.01319	CU M/MI	49.3564	CU M
SP3		08.25.2004	22	0.01276	CU M/MI	49.4321	CU M
SP3		08.25.2004	22.05	0.01346	CU M/MI	49.5078	CU M
SP3		08.25.2004	22.1	0.01321	CU M/MI	49.54565	CU M
SP3		08.25.2004	22.15	0.01316	CU M/MI	49.62135	CU M
SP3		08.25.2004	22.2	0.0129	CU M/MI	49.69705	CU M
SP3		08.25.2004	22.25	0.01277	CU M/MI	49.7349	CU M
SP3		08.25.2004	22.3	0.01297	CU M/MI	49.8106	CU M
SP3		08.25.2004	22.35	0.01241	CU M/MI	49.8863	CU M
SP3		08.25.2004	22.4	0	CU M/MI	49.8106	CU M
SP3		08.25.2004	22.45	0	CU M/MI	49.69705	CU M
SP3		08.25.2004	22.5	0.01257	CU M/MI	49.62135	CU M
SP3		08.25.2004	22.55	0.01248	CU M/MI	49.69705	CU M
SP3		08.25.2004	23	0	CU M/MI	49.69705	CU M
SP3		08.25.2004	23.05	0.02384	CU M/MI	51.28675	CU M
SP3		08.25.2004	23.1	0.01294	CU M/MI	51.36245	CU M
SP3		08.25.2004	23.15	0.01304	CU M/MI	51.43815	CU M
SP3		08.25.2004	23.2	0.0132	CU M/MI	51.476	CU M
SP3		08.25.2004	23.25	0.01335	CU M/MI	51.5517	CU M
SP3		08.25.2004	23.3	0.01301	CU M/MI	51.6274	CU M
SP3		08.25.2004	23.35	0.01299	CU M/MI	51.66525	CU M
SP3		08.25.2004	23.4	0.01289	CU M/MI	51.74095	CU M
SP3		08.25.2004	23.45	0.013	CU M/MI	51.7788	CU M
SP3		08.25.2004	23.5	0	CU M/MI	51.58955	CU M
SP3		08.25.2004	23.55	0.01242	CU M/MI	51.6274	CU M
SP3		08.26.2004	0	0.01244	CU M/MI	51.7031	CU M
SP3		08.26.2004	0.05	0	CU M/MI	52.87645	CU M
SP3		08.26.2004	0.1	0.01345	CU M/MI	52.5358	CU M
SP3		08.26.2004	0.15	0.01358	CU M/MI	52.6115	CU M
SP3		08.26.2004	0.2	0.01328	CU M/MI	52.6872	CU M
SP3		08.26.2004	0.25	0.01328	CU M/MI	52.7629	CU M
SP3		08.26.2004	0.3	0.01353	CU M/MI	52.80075	CU M
SP3		08.26.2004	0.35	0.01342	CU M/MI	52.87645	CU M
SP3		08.26.2004	0.4	0.01267	CU M/MI	52.95215	CU M
SP3		08.26.2004	0.45	0.0128	CU M/MI	53.02785	CU M
SP3		08.26.2004	0.5	0	CU M/MI	52.95215	CU M
SP3		08.26.2004	0.55	0.01279	CU M/MI	52.9143	CU M
SP3		08.26.2004	1	0	CU M/MI	52.9143	CU M
SP3		08.26.2004	1.05	0.01259	CU M/MI	52.87645	CU M
SP3		08.26.2004	1.1	0.01259	CU M/MI	52.95215	CU M
SP3		08.26.2004	1.15	0.00625	CU M/MI	52.99	CU M
SP3		08.26.2004	1.2	0.01289	CU M/MI	53.02785	CU M
SP3		08.26.2004	1.25	0.01227	CU M/MI	53.0657	CU M
SP3		08.26.2004	1.3	0.01129	CU M/MI	53.10355	CU M
SP3		08.26.2004	1.35	0.01285	CU M/MI	53.1414	CU M
SP3		08.26.2004	1.4	0	CU M/MI	53.02785	CU M
SP3		08.26.2004	1.45	0	CU M/MI	52.7629	CU M
SP3		08.26.2004	1.5	0	CU M/MI	52.4601	CU M
SP3		08.26.2004	1.55	0	CU M/MI	52.19515	CU M

Appendix B
Raw Flow from Accommodations (SP-3)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3		08.26.2004	2	0	CU M/MI	51.89235	CU M
SP3		08.26.2004	2.05	0.0109	CU M/MI	51.7031	CU M
SP3		08.26.2004	2.1	0	CU M/MI	51.58955	CU M
SP3		08.26.2004	2.15	0	CU M/MI	51.28675	CU M
SP3		08.26.2004	2.2	0	CU M/MI	51.0218	CU M
SP3		08.26.2004	2.25	0	CU M/MI	50.719	CU M
SP3		08.26.2004	2.3	0	CU M/MI	50.45405	CU M
SP3		08.26.2004	2.35	0	CU M/MI	50.15125	CU M
SP3		08.26.2004	2.4	0	CU M/MI	49.84845	CU M
SP3		08.26.2004	2.45	0	CU M/MI	49.69705	CU M
SP3		08.26.2004	2.5	0.01248	CU M/MI	49.69705	CU M
SP3		08.26.2004	2.55	0	CU M/MI	49.46995	CU M
SP3		08.26.2004	3	0	CU M/MI	49.205	CU M
SP3		08.26.2004	3.05	0	CU M/MI	48.94005	CU M
SP3		08.26.2004	3.1	0	CU M/MI	48.6751	CU M
SP3		08.26.2004	3.15	0	CU M/MI	48.41015	CU M
SP3		08.26.2004	3.2	0	CU M/MI	48.10735	CU M
SP3		08.26.2004	3.25	0	CU M/MI	47.80455	CU M
SP3		08.26.2004	3.3	0	CU M/MI	47.50175	CU M
SP3		08.26.2004	3.35	0	CU M/MI	47.19895	CU M
SP3		08.26.2004	3.4	0.01236	CU M/MI	47.2368	CU M
SP3		08.26.2004	3.45	0	CU M/MI	46.934	CU M
SP3		08.26.2004	3.5	0	CU M/MI	46.66905	CU M
SP3		08.26.2004	3.55	0	CU M/MI	46.5555	CU M
SP3		08.26.2004	4	0	CU M/MI	46.4041	CU M
SP3		08.26.2004	4.05	0	CU M/MI	46.13915	CU M
SP3		08.26.2004	4.1	0	CU M/MI	45.83635	CU M
SP3		08.26.2004	4.15	0	CU M/MI	45.76065	CU M
SP3		08.26.2004	4.2	0	CU M/MI	45.45785	CU M
SP3		08.26.2004	4.25	0	CU M/MI	45.1929	CU M
SP3		08.26.2004	4.3	0	CU M/MI	44.8901	CU M
SP3		08.26.2004	4.35	0	CU M/MI	44.5873	CU M
SP3		08.26.2004	4.4	0.01235	CU M/MI	44.4359	CU M
SP3		08.26.2004	4.45	0.01246	CU M/MI	44.5116	CU M
SP3		08.26.2004	4.5	0.01234	CU M/MI	44.54945	CU M
SP3		08.26.2004	4.55	0.01247	CU M/MI	44.62515	CU M
SP3		08.26.2004	5	0.01249	CU M/MI	44.663	CU M
SP3		08.26.2004	5.05	0.01246	CU M/MI	44.7387	CU M
SP3		08.26.2004	5.1	0.0125	CU M/MI	44.8144	CU M
SP3		08.26.2004	5.15	0.01279	CU M/MI	44.85225	CU M
SP3		08.26.2004	5.2	0.01245	CU M/MI	44.92795	CU M
SP3		08.26.2004	5.25	0.01252	CU M/MI	45.00365	CU M
SP3		08.26.2004	5.3	0.01217	CU M/MI	45.0415	CU M
SP3		08.26.2004	5.35	0.01263	CU M/MI	45.1172	CU M
SP3		08.26.2004	5.4	0.01227	CU M/MI	45.1929	CU M
SP3		08.26.2004	5.45	0.01261	CU M/MI	45.15505	CU M
SP3		08.26.2004	5.5	0.01247	CU M/MI	45.1929	CU M
SP3		08.26.2004	5.55	0.01236	CU M/MI	45.2686	CU M
SP3		08.26.2004	6	0	CU M/MI	45.30645	CU M
SP3		08.26.2004	6.05	0.01298	CU M/MI	46.13915	CU M
SP3		08.26.2004	6.1	0.01281	CU M/MI	46.21485	CU M
SP3		08.26.2004	6.15	0.01275	CU M/MI	46.2527	CU M
SP3		08.26.2004	6.2	0.01277	CU M/MI	46.3284	CU M

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Raw Flow from Accommodations (SP-3)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3		08.26.2004	6.25	0.01283	CU M/MI	46.4041	CU M
SP3		08.26.2004	6.3	0.01284	CU M/MI	46.4798	CU M
SP3		08.26.2004	6.35	0.01276	CU M/MI	46.51765	CU M
SP3		08.26.2004	6.4	0.01261	CU M/MI	46.59335	CU M
SP3		08.26.2004	6.45	0.0126	CU M/MI	46.66905	CU M
SP3		08.26.2004	6.5	0.0126	CU M/MI	46.7069	CU M
SP3		08.26.2004	6.55	0.01271	CU M/MI	46.7826	CU M
SP3		08.26.2004	7	0.58376	CU M/MI	46.97185	CU M
SP3		08.26.2004	7.05	0.01284	CU M/MI	48.63725	CU M
SP3		08.26.2004	7.1	0.01301	CU M/MI	48.71295	CU M
SP3		08.26.2004	7.15	0.01328	CU M/MI	48.7508	CU M
SP3		08.26.2004	7.2	0.01291	CU M/MI	48.8265	CU M
SP3		08.26.2004	7.25	0.01284	CU M/MI	48.9022	CU M
SP3		08.26.2004	7.3	0.51658	CU M/MI	49.2807	CU M
SP3		08.26.2004	7.35	0.01284	CU M/MI	50.719	CU M
SP3		08.26.2004	7.4	0.01313	CU M/MI	50.75685	CU M
SP3		08.26.2004	7.45	0.0131	CU M/MI	50.83255	CU M
SP3		08.26.2004	7.5	0.01302	CU M/MI	50.90825	CU M
SP3		08.26.2004	7.55	0.01323	CU M/MI	50.98395	CU M
SP3		08.26.2004	8	0.01293	CU M/MI	51.0218	CU M
SP3		08.26.2004	8.05	0.01325	CU M/MI	52.6872	CU M
SP3		08.26.2004	8.1	0.0133	CU M/MI	52.72505	CU M
SP3		08.26.2004	8.15	0.01339	CU M/MI	52.80075	CU M
SP3		08.26.2004	8.2	0.0132	CU M/MI	52.87645	CU M
SP3		08.26.2004	8.25	0.0131	CU M/MI	52.95215	CU M
SP3		08.26.2004	8.3	0.4985	CU M/MI	54.4283	CU M
SP3		08.26.2004	8.35	0.01354	CU M/MI	54.08765	CU M
SP3		08.26.2004	8.4	0.01338	CU M/MI	54.16335	CU M
SP3		08.26.2004	8.45	0.0133	CU M/MI	54.23905	CU M
SP3		08.26.2004	8.5	0.01307	CU M/MI	54.2769	CU M
SP3		08.26.2004	8.55	0.0132	CU M/MI	54.3526	CU M
SP3		08.26.2004	9	0.0221	CU M/MI	55.67735	CU M
SP3		08.26.2004	9.05	0.01366	CU M/MI	55.75305	CU M
SP3		08.26.2004	9.1	0.01354	CU M/MI	55.82875	CU M
SP3		08.26.2004	9.15	0.01377	CU M/MI	55.8666	CU M
SP3		08.26.2004	9.2	0.01348	CU M/MI	55.9423	CU M
SP3		08.26.2004	9.25	0.50049	CU M/MI	57.34275	CU M
SP3		08.26.2004	9.3	0.01349	CU M/MI	57.7591	CU M
SP3		08.26.2004	9.35	0.01331	CU M/MI	57.8348	CU M
SP3		08.26.2004	9.4	0.01332	CU M/MI	57.87265	CU M
SP3		08.26.2004	9.45	0.0137	CU M/MI	57.94835	CU M
SP3		08.26.2004	9.5	0.01313	CU M/MI	58.02405	CU M
SP3		08.26.2004	9.55	0.01333	CU M/MI	58.09975	CU M
SP3		08.26.2004	10	0.01307	CU M/MI	58.1376	CU M
SP3		08.26.2004	10.05	0.59541	CU M/MI	58.93245	CU M
SP3		08.26.2004	10.1	0.01332	CU M/MI	59.91655	CU M
SP3		08.26.2004	10.15	0.01352	CU M/MI	59.99225	CU M
SP3		08.26.2004	10.2	0.01309	CU M/MI	60.06795	CU M
SP3		08.26.2004	10.25	0.01327	CU M/MI	60.1058	CU M
SP3		08.26.2004	10.3	0.01291	CU M/MI	60.1815	CU M
SP3		08.26.2004	10.35	0.01323	CU M/MI	60.2572	CU M
SP3		08.26.2004	10.4	0.01322	CU M/MI	60.29505	CU M
SP3		08.26.2004	10.45	0.50369	CU M/MI	60.4086	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3		08.26.2004	11.05	0.01323	CU M/MI	61.96045	CU M
SP3		08.26.2004	11.1	0.01282	CU M/MI	61.9983	CU M
SP3		08.26.2004	11.15	0.01304	CU M/MI	62.074	CU M
SP3		08.26.2004	11.2	0.01279	CU M/MI	62.1497	CU M
SP3		08.26.2004	11.25	0.01276	CU M/MI	62.18755	CU M
SP3		08.26.2004	11.3	0.01293	CU M/MI	63.92865	CU M
SP3		08.26.2004	11.35	0.01311	CU M/MI	64.00435	CU M
SP3		08.26.2004	11.4	0.01326	CU M/MI	64.0422	CU M
SP3		08.26.2004	11.45	0.01323	CU M/MI	64.1179	CU M
SP3		08.26.2004	11.5	0.01316	CU M/MI	64.1936	CU M
SP3		08.26.2004	11.55	0.01306	CU M/MI	64.2693	CU M
SP3		08.26.2004	12	0.01264	CU M/MI	64.30715	CU M
SP3		08.26.2004	12.05	0.01289	CU M/MI	64.38285	CU M
SP3		08.26.2004	12.1	0.01277	CU M/MI	64.45855	CU M
SP3		08.26.2004	12.15	0.01262	CU M/MI	64.4964	CU M
SP3		08.26.2004	12.2	0.53183	CU M/MI	65.2534	CU M
SP3		08.26.2004	12.25	0.01306	CU M/MI	66.0104	CU M
SP3		08.26.2004	12.3	0.013	CU M/MI	66.0861	CU M
SP3		08.26.2004	12.35	0.01318	CU M/MI	66.12395	CU M
SP3		08.26.2004	12.4	0.01305	CU M/MI	66.19965	CU M
SP3		08.26.2004	12.45	0.01302	CU M/MI	66.27535	CU M
SP3		08.26.2004	12.5	0.01304	CU M/MI	66.3132	CU M
SP3		08.26.2004	12.55	0.01277	CU M/MI	66.3889	CU M
SP3		08.26.2004	13	0.01264	CU M/MI	66.4646	CU M
SP3		08.26.2004	13.05	0	CU M/MI	67.78935	CU M
SP3		08.26.2004	13.1	0.01331	CU M/MI	67.86505	CU M
SP3		08.26.2004	13.15	0.01311	CU M/MI	67.9029	CU M
SP3		08.26.2004	13.2	0.01333	CU M/MI	67.9786	CU M
SP3		08.26.2004	13.25	0.01435	CU M/MI	68.0543	CU M
SP3		08.26.2004	13.3	0.01304	CU M/MI	68.09215	CU M
SP3		08.26.2004	13.35	0.01284	CU M/MI	68.16785	CU M
SP3		08.26.2004	13.4	0.01278	CU M/MI	68.24355	CU M
SP3		08.26.2004	13.45	0.01251	CU M/MI	68.31925	CU M
SP3		08.26.2004	13.5	0.013	CU M/MI	68.3571	CU M
SP3		08.26.2004	13.55	0.50858	CU M/MI	69.7954	CU M
SP3		08.26.2004	14	0.01317	CU M/MI	69.15195	CU M
SP3		08.26.2004	14.05	0.01321	CU M/MI	69.22765	CU M
SP3		08.26.2004	14.1	0.01305	CU M/MI	69.2655	CU M
SP3		08.26.2004	14.15	0.01316	CU M/MI	69.3412	CU M
SP3		08.26.2004	14.2	0.01341	CU M/MI	69.4169	CU M
SP3		08.26.2004	14.25	0.01323	CU M/MI	69.4926	CU M
SP3		08.26.2004	14.3	0.01296	CU M/MI	69.53045	CU M
SP3		08.26.2004	14.35	0.01289	CU M/MI	69.60615	CU M
SP3		08.26.2004	14.4	0.01281	CU M/MI	69.68185	CU M
SP3		08.26.2004	14.45	0.59852	CU M/MI	70.43885	CU M
SP3		08.26.2004	14.5	0.0131	CU M/MI	71.158	CU M
SP3		08.26.2004	14.55	0.01327	CU M/MI	71.2337	CU M
SP3		08.26.2004	15	0.01318	CU M/MI	71.27155	CU M
SP3		08.26.2004	15.05	0.0135	CU M/MI	71.34725	CU M
SP3		08.26.2004	15.1	0.01339	CU M/MI	71.42295	CU M
SP3		08.26.2004	15.15	0.01298	CU M/MI	71.49865	CU M
SP3		08.26.2004	15.2	0.01326	CU M/MI	71.5365	CU M
SP3		08.26.2004	15.25	0.01288	CU M/MI	71.6122	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3		08.26.2004	15.3	0	CU M/MI	72.672	CU M
SP3		08.26.2004	15.35	0.01333	CU M/MI	71.95285	CU M
SP3		08.26.2004	15.4	0.01311	CU M/MI	72.02855	CU M
SP3		08.26.2004	15.45	0.01328	CU M/MI	72.0664	CU M
SP3		08.26.2004	15.5	0.01325	CU M/MI	72.1421	CU M
SP3		08.26.2004	15.55	0.0134	CU M/MI	72.2178	CU M
SP3		08.26.2004	16	0.01345	CU M/MI	72.2935	CU M
SP3		08.26.2004	16.05	0.01292	CU M/MI	72.33135	CU M
SP3		08.26.2004	16.1	0	CU M/MI	70.6281	CU M
SP3		08.26.2004	16.15	0.01363	CU M/MI	70.7038	CU M
SP3		08.26.2004	16.2	0.01358	CU M/MI	70.7795	CU M
SP3		08.26.2004	16.25	0.01337	CU M/MI	70.8552	CU M
SP3		08.26.2004	16.3	0.01313	CU M/MI	70.89305	CU M
SP3		08.26.2004	16.35	0.01312	CU M/MI	70.96875	CU M
SP3		08.26.2004	16.4	0.50824	CU M/MI	71.915	CU M
SP3		08.26.2004	16.45	0.0134	CU M/MI	72.4449	CU M
SP3		08.26.2004	16.5	0.01348	CU M/MI	72.48275	CU M
SP3		08.26.2004	16.55	0.01329	CU M/MI	72.55845	CU M
SP3		08.26.2004	17	0.01323	CU M/MI	72.63415	CU M
SP3		08.26.2004	17.05	0.01345	CU M/MI	72.70985	CU M
SP3		08.26.2004	17.1	0	CU M/MI	71.6122	CU M
SP3		08.26.2004	17.15	0.01382	CU M/MI	71.04445	CU M
SP3		08.26.2004	17.2	0.01374	CU M/MI	71.12015	CU M
SP3		08.26.2004	17.25	0.01323	CU M/MI	71.158	CU M
SP3		08.26.2004	17.3	0.01332	CU M/MI	71.2337	CU M
SP3		08.26.2004	17.35	0.0131	CU M/MI	71.3094	CU M
SP3		08.26.2004	17.4	0.51044	CU M/MI	72.1421	CU M
SP3		08.26.2004	17.45	0.0134	CU M/MI	71.27155	CU M
SP3		08.26.2004	17.5	0.01349	CU M/MI	71.3094	CU M
SP3		08.26.2004	17.55	0.0132	CU M/MI	71.3851	CU M
SP3		08.26.2004	18	0	CU M/MI	71.27155	CU M
SP3		08.26.2004	18.05	0	CU M/MI	71.04445	CU M
SP3		08.26.2004	18.1	0	CU M/MI	65.2534	CU M
SP3		08.26.2004	18.15	0	CU M/MI	65.06415	CU M
SP3		08.26.2004	18.2	0	CU M/MI	64.7992	CU M
SP3		08.26.2004	18.25	0	CU M/MI	64.5721	CU M
SP3		08.26.2004	18.3	0	CU M/MI	64.30715	CU M
SP3		08.26.2004	18.35	0	CU M/MI	64.08005	CU M
SP3		08.26.2004	18.4	0	CU M/MI	51.1732	CU M
SP3		08.26.2004	18.45	0	CU M/MI	50.9461	CU M
SP3		08.26.2004	18.5	0	CU M/MI	50.68115	CU M
SP3		08.26.2004	18.55	0	CU M/MI	50.45405	CU M
SP3		08.26.2004	19	0	CU M/MI	50.22695	CU M
SP3		08.26.2004	19.05	0	CU M/MI	49.962	CU M
SP3		08.26.2004	19.1	0	CU M/MI	49.7349	CU M
SP3		08.26.2004	19.15	0.01309	CU M/MI	49.7349	CU M
SP3		08.26.2004	19.2	0.01338	CU M/MI	49.8106	CU M
SP3		08.26.2004	19.25	0.0132	CU M/MI	49.8863	CU M
SP3		08.26.2004	19.3	0.00394	CU M/MI	51.58955	CU M
SP3		08.26.2004	19.35	0.0136	CU M/MI	51.6274	CU M
SP3		08.26.2004	19.4	0.0135	CU M/MI	51.7031	CU M
SP3		08.26.2004	19.45	0.01336	CU M/MI	51.7788	CU M
SP3		08.26.2004	19.5	0.0136	CU M/MI	51.8545	CU M

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Raw Flow from Accommodations (SP-3)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3		08.26.2004	19.55	0.01328	CU M/MI	51.89235	CU M
SP3		08.26.2004	20	0.01325	CU M/MI	51.96805	CU M
SP3		08.26.2004	20.05	0.01341	CU M/MI	52.04375	CU M
SP3		08.26.2004	20.1	0.01352	CU M/MI	52.11945	CU M
SP3		08.26.2004	20.15	0.01275	CU M/MI	52.1573	CU M
SP3		08.26.2004	20.2	0.01342	CU M/MI	52.233	CU M
SP3		08.26.2004	20.25	0.01321	CU M/MI	52.3087	CU M
SP3		08.26.2004	20.3	0.01293	CU M/MI	52.3844	CU M
SP3		08.26.2004	20.35	0.01302	CU M/MI	52.42225	CU M
SP3		08.26.2004	20.4	0.01312	CU M/MI	52.49795	CU M
SP3		08.26.2004	20.45	0.01297	CU M/MI	52.57365	CU M
SP3		08.26.2004	20.5	0.01288	CU M/MI	52.6115	CU M
SP3		08.26.2004	20.55	0.0127	CU M/MI	52.6872	CU M
SP3		08.26.2004	21	0	CU M/MI	52.64935	CU M
SP3		08.26.2004	21.05	0.01281	CU M/MI	52.72505	CU M
SP3		08.26.2004	21.1	0.01252	CU M/MI	52.7629	CU M
SP3		08.26.2004	21.15	0.01283	CU M/MI	52.8386	CU M
SP3		08.26.2004	21.2	0.01271	CU M/MI	52.87645	CU M
SP3		08.26.2004	21.25	0.01254	CU M/MI	52.95215	CU M
SP3		08.26.2004	21.3	0.01277	CU M/MI	53.02785	CU M
SP3		08.26.2004	21.35	0.01281	CU M/MI	53.0657	CU M
SP3		08.26.2004	21.4	0	CU M/MI	52.8386	CU M
SP3		08.26.2004	21.45	0	CU M/MI	52.11945	CU M
SP3		08.26.2004	21.5	0	CU M/MI	40.8023	CU M
SP3		08.26.2004	21.55	0	CU M/MI	40.5752	CU M
SP3		08.26.2004	22	0	CU M/MI	40.31025	CU M
SP3		08.26.2004	22.05	0	CU M/MI	40.08315	CU M
SP3		08.26.2004	22.1	0	CU M/MI	39.8182	CU M
SP3		08.26.2004	22.15	0	CU M/MI	39.55325	CU M
SP3		08.26.2004	22.2	0	CU M/MI	39.32615	CU M
SP3		08.26.2004	22.25	0	CU M/MI	39.0612	CU M
SP3		08.26.2004	22.3	0	CU M/MI	38.79625	CU M
SP3		08.26.2004	22.35	0	CU M/MI	38.56915	CU M
SP3		08.26.2004	22.4	0	CU M/MI	38.3042	CU M
SP3		08.26.2004	22.45	0	CU M/MI	38.03925	CU M
SP3		08.26.2004	22.5	0	CU M/MI	37.7743	CU M
SP3		08.26.2004	22.55	0	CU M/MI	37.5472	CU M
SP3		08.26.2004	23	0	CU M/MI	37.28225	CU M
SP3		08.26.2004	23.05	0	CU M/MI	37.0173	CU M
SP3		08.26.2004	23.1	0	CU M/MI	36.75235	CU M
SP3		08.26.2004	23.15	0	CU M/MI	36.4874	CU M
SP3		08.26.2004	23.2	0	CU M/MI	30.5828	CU M
SP3		08.26.2004	23.25	0	CU M/MI	26.15435	CU M
SP3		08.26.2004	23.3	0	CU M/MI	25.92725	CU M
SP3		08.26.2004	23.35	0	CU M/MI	25.6623	CU M
SP3		08.26.2004	23.4	0	CU M/MI	25.4352	CU M
SP3		08.26.2004	23.45	0	CU M/MI	25.17025	CU M
SP3		08.26.2004	23.5	0	CU M/MI	24.9053	CU M
SP3		08.26.2004	23.55	0	CU M/MI	24.6782	CU M
SP3		08.27.2004	0	0	CU M/MI	24.41325	CU M
SP3		08.27.2004	0.05	0	CU M/MI	24.1483	CU M
SP3		08.27.2004	0.1	0	CU M/MI	23.9212	CU M
SP3		08.27.2004	0.15	0	CU M/MI	23.65625	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3		08.27.2004	0.2	0	CU M/MI	23.3913	CU M
SP3		08.27.2004	0.25	0	CU M/MI	23.1642	CU M
SP3		08.27.2004	0.3	0	CU M/MI	22.89925	CU M
SP3		08.27.2004	0.35	0	CU M/MI	22.6343	CU M
SP3		08.27.2004	0.4	0	CU M/MI	22.36935	CU M
SP3		08.27.2004	0.45	0	CU M/MI	22.14225	CU M
SP3		08.27.2004	0.5	0	CU M/MI	21.8773	CU M
SP3		08.27.2004	0.55	0	CU M/MI	21.61235	CU M
SP3		08.27.2004	1	0	CU M/MI	21.3474	CU M
SP3		08.27.2004	1.05	0	CU M/MI	21.08245	CU M
SP3		08.27.2004	1.1	0	CU M/MI	20.8175	CU M
SP3		08.27.2004	1.15	0	CU M/MI	20.55255	CU M
SP3		08.27.2004	1.2	0	CU M/MI	20.32545	CU M
SP3		08.27.2004	1.25	0	CU M/MI	20.0605	CU M
SP3		08.27.2004	1.3	0	CU M/MI	19.79555	CU M
SP3		08.27.2004	1.35	0	CU M/MI	19.5306	CU M
SP3		08.27.2004	1.4	0	CU M/MI	19.26565	CU M
SP3		08.27.2004	1.45	0	CU M/MI	19.0007	CU M
SP3		08.27.2004	1.5	0	CU M/MI	18.7736	CU M
SP3		08.27.2004	1.55	0	CU M/MI	18.50865	CU M
SP3		08.27.2004	2	0	CU M/MI	6.24525	CU M
SP3		08.27.2004	2.05	0	CU M/MI	6.01815	CU M
SP3		08.27.2004	2.1	0	CU M/MI	5.7532	CU M
SP3		08.27.2004	2.15	0	CU M/MI	5.48825	CU M
SP3		08.27.2004	2.2	0	CU M/MI	5.26115	CU M
SP3		08.27.2004	2.25	0	CU M/MI	4.9962	CU M
SP3		08.27.2004	2.3	0	CU M/MI	4.7691	CU M
SP3		08.27.2004	2.35	0	CU M/MI	4.50415	CU M
SP3		08.27.2004	2.4	0	CU M/MI	4.27705	CU M
SP3		08.27.2004	2.45	0	CU M/MI	4.0121	CU M
SP3		08.27.2004	2.5	0	CU M/MI	3.74715	CU M
SP3		08.27.2004	2.55	0	CU M/MI	3.52005	CU M
SP3		08.27.2004	3	0	CU M/MI	3.2551	CU M
SP3		08.27.2004	3.05	0	CU M/MI	2.99015	CU M
SP3		08.27.2004	3.1	0	CU M/MI	2.7252	CU M
SP3		08.27.2004	3.15	0	CU M/MI	2.4981	CU M
SP3		08.27.2004	3.2	0	CU M/MI	2.23315	CU M
SP3		08.27.2004	3.25	0.01257	CU M/MI	2.271	CU M
SP3		08.27.2004	3.3	0.013	CU M/MI	2.3467	CU M
SP3		08.27.2004	3.35	0.01291	CU M/MI	2.38455	CU M
SP3		08.27.2004	3.4	0.01273	CU M/MI	2.46025	CU M
SP3		08.27.2004	3.45	0.01279	CU M/MI	2.53595	CU M
SP3		08.27.2004	3.5	0.01255	CU M/MI	2.5738	CU M
SP3		08.27.2004	3.55	0.01258	CU M/MI	2.6495	CU M
SP3		08.27.2004	4	0.01252	CU M/MI	2.7252	CU M
SP3		08.27.2004	4.05	0.01298	CU M/MI	2.76305	CU M
SP3		08.27.2004	4.1	0.01285	CU M/MI	2.83875	CU M
SP3		08.27.2004	4.15	0.0125	CU M/MI	2.91445	CU M
SP3		08.27.2004	4.2	0.01249	CU M/MI	2.9523	CU M
SP3		08.27.2004	4.25	0.01246	CU M/MI	3.028	CU M
SP3		08.27.2004	4.3	0.01247	CU M/MI	3.1037	CU M
SP3		08.27.2004	4.35	0.01278	CU M/MI	3.1794	CU M
SP3		08.27.2004	4.4	0.0125	CU M/MI	3.21725	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3		08.27.2004	4.45	0.01265	CU M/MI	3.29295	CU M
SP3		08.27.2004	4.5	0.01252	CU M/MI	3.36865	CU M
SP3		08.27.2004	4.55	0.01283	CU M/MI	3.4065	CU M
SP3		08.27.2004	5	0.01255	CU M/MI	3.4822	CU M
SP3		08.27.2004	5.05	0.01254	CU M/MI	3.5579	CU M
SP3		08.27.2004	5.1	0.01266	CU M/MI	3.59575	CU M
SP3		08.27.2004	5.15	0.01269	CU M/MI	3.67145	CU M
SP3		08.27.2004	5.2	0.01235	CU M/MI	3.6336	CU M
SP3		08.27.2004	5.25	0.01241	CU M/MI	3.7093	CU M
SP3		08.27.2004	5.3	0.01241	CU M/MI	3.74715	CU M
SP3		08.27.2004	5.35	0	CU M/MI	3.74715	CU M
SP3		08.27.2004	5.4	0.01287	CU M/MI	3.785	CU M
SP3		08.27.2004	5.45	0	CU M/MI	3.7093	CU M
SP3		08.27.2004	5.5	0.01219	CU M/MI	3.52005	CU M
SP3		08.27.2004	5.55	0.01247	CU M/MI	3.59575	CU M
SP3		08.27.2004	6	0.0128	CU M/MI	3.67145	CU M
SP3		08.27.2004	6.05	0.0126	CU M/MI	3.7093	CU M
SP3		08.27.2004	6.1	0.01253	CU M/MI	3.785	CU M
SP3		08.27.2004	6.15	0.01307	CU M/MI	3.82285	CU M
SP3		08.27.2004	6.2	0.01279	CU M/MI	3.89855	CU M
SP3		08.27.2004	6.25	0.01294	CU M/MI	3.8607	CU M
SP3		08.27.2004	6.3	0.0126	CU M/MI	3.89855	CU M
SP3		08.27.2004	6.35	0.01279	CU M/MI	3.97425	CU M
SP3		08.27.2004	6.4	0.01282	CU M/MI	4.04995	CU M
SP3		08.27.2004	6.45	0.01316	CU M/MI	4.0878	CU M
SP3		08.27.2004	6.5	0.01269	CU M/MI	4.1635	CU M
SP3		08.27.2004	6.55	0	CU M/MI	4.12565	CU M
SP3		08.27.2004	7	0	CU M/MI	4.04995	CU M
SP3		08.27.2004	7.05	0.01275	CU M/MI	4.04995	CU M
SP3		08.27.2004	7.1	0.01313	CU M/MI	5.3747	CU M
SP3		08.27.2004	7.15	0.01337	CU M/MI	5.4504	CU M
SP3		08.27.2004	7.2	0.01331	CU M/MI	5.5261	CU M
SP3		08.27.2004	7.25	0.01309	CU M/MI	5.56395	CU M
SP3		08.27.2004	7.3	0.01318	CU M/MI	5.6018	CU M
SP3		08.27.2004	7.35	0.52075	CU M/MI	5.18545	CU M
SP3		08.27.2004	7.4	0.0134	CU M/MI	5.8289	CU M
SP3		08.27.2004	7.45	0.01373	CU M/MI	5.9046	CU M
SP3		08.27.2004	7.5	0.01344	CU M/MI	5.9803	CU M
SP3		08.27.2004	7.55	0.01356	CU M/MI	6.01815	CU M
SP3		08.27.2004	8	0.01354	CU M/MI	6.09385	CU M
SP3		08.27.2004	8.05	0.59199	CU M/MI	7.15365	CU M
SP3		08.27.2004	8.1	0.01385	CU M/MI	7.1915	CU M
SP3		08.27.2004	8.15	0.01383	CU M/MI	7.2672	CU M
SP3		08.27.2004	8.2	0.01385	CU M/MI	7.3429	CU M
SP3		08.27.2004	8.25	0.01355	CU M/MI	7.4186	CU M
SP3		08.27.2004	8.3	0.01373	CU M/MI	7.45645	CU M
SP3		08.27.2004	8.35	0.50203	CU M/MI	7.7214	CU M
SP3		08.27.2004	8.4	0.01404	CU M/MI	7.57	CU M
SP3		08.27.2004	8.45	0.01389	CU M/MI	7.6457	CU M
SP3		08.27.2004	8.5	0.01359	CU M/MI	7.7214	CU M
SP3		08.27.2004	8.55	0.01397	CU M/MI	7.7971	CU M
SP3		08.27.2004	9	0	CU M/MI	0.94625	CU M
SP3		08.27.2004	9.05	0.0142	CU M/MI	1.02195	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3		08.27.2004	9.1	0.0145	CU M/MI	1.09765	CU M
SP3		08.27.2004	9.15	0.01391	CU M/MI	1.17335	CU M
SP3		08.27.2004	9.2	0.01384	CU M/MI	1.24905	CU M
SP3		08.27.2004	9.25	0.01391	CU M/MI	1.2869	CU M
SP3		08.27.2004	9.3	0.43286	CU M/MI	-2.38455	CU M
SP3		08.27.2004	9.35	0.01389	CU M/MI	-5.6018	CU M
SP3		08.27.2004	9.4	0.01422	CU M/MI	-5.5261	CU M
SP3		08.27.2004	9.45	0.01417	CU M/MI	-5.4504	CU M
SP3		08.27.2004	9.5	0.01392	CU M/MI	-5.3747	CU M
SP3		08.27.2004	9.55	0.01368	CU M/MI	-5.299	CU M
SP3		08.27.2004	10	0.01355	CU M/MI	-5.2233	CU M
SP3		08.27.2004	10.05	0.58995	CU M/MI	-4.1635	CU M
SP3		08.27.2004	10.1	0.01386	CU M/MI	-4.2392	CU M
SP3		08.27.2004	10.15	0.01402	CU M/MI	-4.1635	CU M
SP3		08.27.2004	10.2	0.01393	CU M/MI	-4.0878	CU M
SP3		08.27.2004	10.25	0.01388	CU M/MI	-4.04995	CU M
SP3		08.27.2004	10.3	0.01373	CU M/MI	-3.97425	CU M
SP3		08.27.2004	10.35	0.01352	CU M/MI	-3.89855	CU M
SP3		08.27.2004	10.4	0.01326	CU M/MI	-3.82285	CU M
SP3		08.27.2004	10.45	0.01308	CU M/MI	-3.74715	CU M
SP3		08.27.2004	10.5	0.01341	CU M/MI	-3.7093	CU M
SP3		08.27.2004	10.55	0.49501	CU M/MI	-2.61165	CU M
SP3		08.27.2004	11	0.01378	CU M/MI	-2.4981	CU M
SP3		08.27.2004	11.05	0.01359	CU M/MI	-2.4224	CU M
SP3		08.27.2004	11.1	0.01353	CU M/MI	-2.38455	CU M
SP3		08.27.2004	11.15	0.01353	CU M/MI	-2.30885	CU M
SP3		08.27.2004	11.2	0.01339	CU M/MI	-2.23315	CU M
SP3		08.27.2004	11.25	0.01358	CU M/MI	-2.15745	CU M
SP3		08.27.2004	11.3	0.01349	CU M/MI	-2.1196	CU M
SP3		08.27.2004	11.35	0.01395	CU M/MI	-5.9803	CU M
SP3		08.27.2004	11.4	0.01396	CU M/MI	-5.9046	CU M
SP3		08.27.2004	12.05	0.01329	CU M/MI	-5.56395	CU M
SP3		08.27.2004	12.1	0.50891	CU M/MI	-4.9962	CU M
SP3		08.27.2004	12.15	0.01331	CU M/MI	-8.0999	CU M
SP3		08.27.2004	12.2	0.0137	CU M/MI	-8.0242	CU M
SP3		08.27.2004	12.25	0.01399	CU M/MI	-7.9485	CU M
SP3		08.27.2004	12.3	0.01374	CU M/MI	-7.8728	CU M
SP3		08.27.2004	12.35	0.01366	CU M/MI	-7.7971	CU M
SP3		08.27.2004	12.4	0.01317	CU M/MI	-7.75925	CU M
SP3		08.27.2004	12.45	0.01359	CU M/MI	-7.68355	CU M
SP3		08.27.2004	12.5	0.01347	CU M/MI	-7.60785	CU M
SP3		08.27.2004	12.55	0.01406	CU M/MI	-6.056	CU M
SP3		08.27.2004	13	0.01345	CU M/MI	-6.01815	CU M
SP3		08.27.2004	13.05	0.01368	CU M/MI	-5.94245	CU M
SP3		08.27.2004	13.1	0.01363	CU M/MI	-5.86675	CU M
SP3		08.27.2004	13.15	0.01353	CU M/MI	-5.79105	CU M
SP3		08.27.2004	13.2	0.01372	CU M/MI	-5.71535	CU M
SP3		08.27.2004	13.25	0.01339	CU M/MI	-5.63965	CU M
SP3		08.27.2004	13.3	0.01318	CU M/MI	-5.6018	CU M
SP3		08.27.2004	13.35	0.01342	CU M/MI	-5.5261	CU M
SP3		08.27.2004	13.4	0.50606	CU M/MI	-4.6934	CU M
SP3		08.27.2004	13.45	0.01371	CU M/MI	-5.299	CU M
SP3		08.27.2004	13.5	0.01043	CU M/MI	-5.26115	CU M

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SP3		08.27.2004	13.55	0.01364	CU M/MI	-5.2233	CU M
SP3		08.27.2004	14	0.01363	CU M/MI	-5.1476	CU M
SP3		08.27.2004	14.05	0.01359	CU M/MI	-5.0719	CU M
SP3		08.27.2004	14.1	0.01347	CU M/MI	-4.9962	CU M
SP3		08.27.2004	14.15	0.01327	CU M/MI	-4.95835	CU M
SP3		08.27.2004	14.2	0.01337	CU M/MI	-4.88265	CU M
SP3		08.27.2004	14.25	0.01317	CU M/MI	-4.80695	CU M
SP3		08.27.2004	14.3	0.01319	CU M/MI	-4.73125	CU M
SP3		08.27.2004	14.35	0.0132	CU M/MI	-4.6934	CU M
SP3		08.27.2004	14.4	0.01311	CU M/MI	-4.6177	CU M
SP3		08.27.2004	14.45	0.01258	CU M/MI	-4.542	CU M
SP3		08.27.2004	14.5	0.59337	CU M/MI	-3.4065	CU M
SP3		08.27.2004	14.55	0.01302	CU M/MI	-3.06585	CU M
SP3		08.27.2004	15	0.01344	CU M/MI	-3.028	CU M
SP3		08.27.2004	15.05	0.01306	CU M/MI	-2.9523	CU M
SP3		08.27.2004	15.1	0.01322	CU M/MI	-2.8766	CU M
SP3		08.27.2004	15.15	0.01323	CU M/MI	-2.8009	CU M
SP3		08.27.2004	15.2	0.01337	CU M/MI	-2.76305	CU M
SP3		08.27.2004	15.25	0.01326	CU M/MI	-2.68735	CU M
SP3		08.27.2004	15.3	0	CU M/MI	-2.6495	CU M
SP3		08.27.2004	15.35	0	CU M/MI	-2.6495	CU M
SP3		08.27.2004	15.4	0.0136	CU M/MI	-2.7252	CU M
SP3		08.27.2004	15.45	0.01337	CU M/MI	-2.6495	CU M
SP3		08.27.2004	15.5	0.01354	CU M/MI	-2.61165	CU M
SP3		08.27.2004	15.55	0.01118	CU M/MI	-2.53595	CU M
SP3		08.27.2004	16	0.01332	CU M/MI	-2.46025	CU M
SP3		08.27.2004	16.05	0.01327	CU M/MI	-2.38455	CU M
SP3		08.27.2004	16.1	0.01319	CU M/MI	-2.3467	CU M
SP3		08.27.2004	16.15	0.01323	CU M/MI	-2.271	CU M
SP3		08.27.2004	16.2	0.01296	CU M/MI	-2.1953	CU M
SP3		08.27.2004	16.25	0.5873	CU M/MI	-2.61165	CU M
SP3		08.27.2004	16.3	0.01341	CU M/MI	-2.4981	CU M
SP3		08.27.2004	16.35	0.01324	CU M/MI	-2.4224	CU M
SP3		08.27.2004	16.4	0.01333	CU M/MI	-2.3467	CU M
SP3		08.27.2004	16.45	0.01323	CU M/MI	-2.271	CU M
SP3		08.27.2004	16.5	0.01322	CU M/MI	-2.23315	CU M
SP3		08.27.2004	16.55	0.01346	CU M/MI	-2.15745	CU M
SP3		08.27.2004	17	0.01294	CU M/MI	-2.08175	CU M
SP3		08.27.2004	17.05	0	CU M/MI	-2.0439	CU M
SP3		08.27.2004	17.1	0	CU M/MI	-2.00605	CU M
SP3		08.27.2004	17.15	0.01288	CU M/MI	-2.00605	CU M
SP3		08.27.2004	17.2	0.01256	CU M/MI	-2.00605	CU M
SP3		08.27.2004	17.25	0	CU M/MI	-2.0439	CU M
SP3		08.27.2004	17.3	0.00109	CU M/MI	-2.30885	CU M
SP3		08.27.2004	17.35	0.01244	CU M/MI	-2.30885	CU M
SP3		08.27.2004	17.4	0.51359	CU M/MI	-1.47615	CU M
SP3		08.27.2004	17.45	0.01284	CU M/MI	-0.56775	CU M
SP3		08.27.2004	17.5	0.01316	CU M/MI	-0.49205	CU M
SP3		08.27.2004	17.55	0.01313	CU M/MI	-0.41635	CU M
SP3		08.27.2004	18	0.01286	CU M/MI	-0.3785	CU M
SP3		08.27.2004	18.05	0.01329	CU M/MI	-0.3028	CU M
SP3		08.27.2004	18.1	0.01301	CU M/MI	-0.2271	CU M
SP3		08.27.2004	18.15	0.01311	CU M/MI	-0.18925	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3		08.27.2004	18.2	0.01295	CU M/MI	-0.11355	CU M
SP3		08.27.2004	18.25	0.0129	CU M/MI	-0.03785	CU M
SP3		08.27.2004	18.3	0.0126	CU M/MI	-0.0757	CU M
SP3		08.27.2004	18.35	0.01333	CU M/MI	0.1514	CU M
SP3		08.27.2004	18.4	0.01315	CU M/MI	0.2271	CU M
SP3		08.27.2004	18.45	0.01346	CU M/MI	0.3028	CU M
SP3		08.27.2004	18.5	0.01322	CU M/MI	0.3785	CU M
SP3		08.27.2004	18.55	0.01291	CU M/MI	0.41635	CU M
SP3		08.27.2004	19	0.013	CU M/MI	0.49205	CU M
SP3		08.27.2004	19.05	0.01282	CU M/MI	0.56775	CU M
SP3		08.27.2004	19.1	0.0129	CU M/MI	0.6056	CU M
SP3		08.27.2004	19.15	0	CU M/MI	0.56775	CU M
SP3		08.27.2004	19.2	0.01259	CU M/MI	0.56775	CU M
SP3		08.27.2004	19.25	0.01277	CU M/MI	0.64345	CU M
SP3		08.27.2004	19.3	0.01273	CU M/MI	0.71915	CU M
SP3		08.27.2004	19.35	0.06459	CU M/MI	1.17335	CU M
SP3		08.27.2004	19.4	0.01349	CU M/MI	1.2112	CU M
SP3		08.27.2004	19.45	0.01331	CU M/MI	1.2869	CU M
SP3		08.27.2004	19.5	0.01354	CU M/MI	1.3626	CU M
SP3		08.27.2004	19.55	0.01313	CU M/MI	1.4383	CU M
SP3		08.27.2004	20	0.01304	CU M/MI	1.47615	CU M
SP3		08.27.2004	20.05	0.01276	CU M/MI	1.55185	CU M
SP3		08.27.2004	20.1	0.01295	CU M/MI	1.62755	CU M
SP3		08.27.2004	20.15	0.01296	CU M/MI	1.70325	CU M
SP3		08.27.2004	20.2	0.01303	CU M/MI	1.7411	CU M
SP3		08.27.2004	20.25	0.01262	CU M/MI	1.8168	CU M
SP3		08.27.2004	20.3	0.01246	CU M/MI	1.85465	CU M
SP3		08.27.2004	20.35	0	CU M/MI	1.7411	CU M
SP3		08.27.2004	20.4	0	CU M/MI	1.70325	CU M
SP3		08.27.2004	20.45	0.01237	CU M/MI	1.55185	CU M
SP3		08.27.2004	20.5	0.01269	CU M/MI	1.514	CU M
SP3		08.27.2004	20.55	0	CU M/MI	1.32475	CU M
SP3		08.27.2004	21	0.31411	CU M/MI	2.68735	CU M
SP3		08.27.2004	21.05	0.01302	CU M/MI	2.76305	CU M
SP3		08.27.2004	21.1	0.01309	CU M/MI	2.83875	CU M
SP3		08.27.2004	21.15	0.01278	CU M/MI	2.8766	CU M
SP3		08.27.2004	21.2	0.01303	CU M/MI	2.9523	CU M
SP3		08.27.2004	21.25	0.01294	CU M/MI	3.028	CU M
SP3		08.27.2004	21.3	0.0128	CU M/MI	3.06585	CU M
SP3		08.27.2004	21.35	0.01283	CU M/MI	3.14155	CU M
SP3		08.27.2004	21.4	0.01278	CU M/MI	3.21725	CU M
SP3		08.27.2004	21.45	0.01278	CU M/MI	3.2551	CU M
SP3		08.27.2004	21.5	0.01273	CU M/MI	3.3308	CU M
SP3		08.27.2004	21.55	0.01206	CU M/MI	3.4065	CU M
SP3		08.27.2004	22	0.01247	CU M/MI	3.44435	CU M
SP3		08.27.2004	22.05	0.01331	CU M/MI	5.26115	CU M
SP3		08.27.2004	22.1	0.01306	CU M/MI	5.299	CU M
SP3		08.27.2004	22.15	0.01312	CU M/MI	5.3747	CU M
SP3		08.27.2004	22.2	0.01322	CU M/MI	5.4504	CU M
SP3		08.27.2004	22.25	0.01294	CU M/MI	5.5261	CU M
SP3		08.27.2004	22.3	0.0131	CU M/MI	5.56395	CU M
SP3		08.27.2004	22.35	0.01285	CU M/MI	5.63965	CU M
SP3		08.27.2004	22.4	0.01287	CU M/MI	5.71535	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3		08.27.2004	22.45	0	CU M/MI	5.7532	CU M
SP3		08.27.2004	22.5	0.0093	CU M/MI	5.71535	CU M
SP3		08.27.2004	22.55	0.0127	CU M/MI	5.79105	CU M
SP3		08.27.2004	23	0.01264	CU M/MI	5.8289	CU M
SP3		08.27.2004	23.05	0.01253	CU M/MI	5.9046	CU M
SP3		08.27.2004	23.1	0.01239	CU M/MI	5.8289	CU M
SP3		08.27.2004	23.15	0	CU M/MI	5.8289	CU M
SP3		08.27.2004	23.2	0.01339	CU M/MI	7.53215	CU M
SP3		08.27.2004	23.25	0.01295	CU M/MI	7.60785	CU M
SP3		08.27.2004	23.3	0.01327	CU M/MI	7.68355	CU M
SP3		08.27.2004	23.35	0.01306	CU M/MI	7.7214	CU M
SP3		08.27.2004	23.4	0.01295	CU M/MI	7.7971	CU M
SP3		08.27.2004	23.45	0.01321	CU M/MI	7.8728	CU M
SP3		08.27.2004	23.5	0.01309	CU M/MI	7.9485	CU M
SP3		08.27.2004	23.55	0.01263	CU M/MI	7.98635	CU M
SP3		08.28.2004	0	0.01305	CU M/MI	8.06205	CU M
SP3		08.28.2004	0.05	0.01272	CU M/MI	8.13775	CU M
SP3		08.28.2004	0.1	0.01253	CU M/MI	8.1756	CU M
SP3		08.28.2004	0.15	0.01265	CU M/MI	8.2513	CU M
SP3		08.28.2004	0.2	0	CU M/MI	8.2513	CU M
SP3		08.28.2004	0.25	0.01267	CU M/MI	8.2513	CU M
SP3		08.28.2004	0.3	0.01256	CU M/MI	8.28915	CU M
SP3		08.28.2004	0.35	0.01278	CU M/MI	8.36485	CU M
SP3		08.28.2004	0.4	0	CU M/MI	8.36485	CU M
SP3		08.28.2004	0.45	0	CU M/MI	8.28915	CU M
SP3		08.28.2004	0.5	0.01248	CU M/MI	8.28915	CU M
SP3		08.28.2004	0.55	0.01051	CU M/MI	8.2513	CU M
SP3		08.28.2004	1	0.01259	CU M/MI	8.327	CU M
SP3		08.28.2004	1.05	0.00499	CU M/MI	8.06205	CU M
SP3		08.28.2004	1.1	0	CU M/MI	7.98635	CU M
SP3		08.28.2004	1.15	0	CU M/MI	7.83495	CU M
SP3		08.28.2004	1.2	0	CU M/MI	7.7214	CU M
SP3		08.28.2004	1.25	0	CU M/MI	7.45645	CU M
SP3		08.28.2004	1.3	0.01228	CU M/MI	7.2672	CU M
SP3		08.28.2004	1.35	0.01229	CU M/MI	7.2672	CU M
SP3		08.28.2004	1.4	0	CU M/MI	7.07795	CU M
SP3		08.28.2004	1.45	0	CU M/MI	6.8887	CU M
SP3		08.28.2004	1.5	0	CU M/MI	6.62375	CU M
SP3		08.28.2004	1.55	0	CU M/MI	6.3588	CU M
SP3		08.28.2004	2	0.01188	CU M/MI	6.1317	CU M
SP3		08.28.2004	2.05	0	CU M/MI	5.8289	CU M
SP3		08.28.2004	2.1	0.01011	CU M/MI	5.56395	CU M
SP3		08.28.2004	2.15	0	CU M/MI	5.299	CU M
SP3		08.28.2004	2.2	0	CU M/MI	4.9962	CU M
SP3		08.28.2004	2.25	0	CU M/MI	4.6934	CU M
SP3		08.28.2004	2.3	0	CU M/MI	4.3906	CU M
SP3		08.28.2004	2.35	0	CU M/MI	4.0878	CU M
SP3		08.28.2004	2.4	0	CU M/MI	3.82285	CU M
SP3		08.28.2004	2.45	0	CU M/MI	3.52005	CU M
SP3		08.28.2004	2.5	0	CU M/MI	3.2551	CU M
SP3		08.28.2004	2.55	0	CU M/MI	2.99015	CU M
SP3		08.28.2004	3	0	CU M/MI	2.7252	CU M
SP3		08.28.2004	3.05	0	CU M/MI	2.68735	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3		08.28.2004	3.1	0	CU M/MI	2.5738	CU M
SP3		08.28.2004	3.15	0	CU M/MI	2.30885	CU M
SP3		08.28.2004	3.2	0	CU M/MI	2.00605	CU M
SP3		08.28.2004	3.25	0	CU M/MI	1.7411	CU M
SP3		08.28.2004	3.3	0	CU M/MI	1.4383	CU M
SP3		08.28.2004	3.35	0	CU M/MI	1.17335	CU M
SP3		08.28.2004	3.4	0	CU M/MI	0.9084	CU M
SP3		08.28.2004	3.45	0	CU M/MI	0.64345	CU M
SP3		08.28.2004	3.5	0	CU M/MI	0.3785	CU M
SP3		08.28.2004	3.55	0	CU M/MI	0.11355	CU M
SP3		08.28.2004	4	0	CU M/MI	0.11355	CU M
SP3		08.28.2004	4.05	0	CU M/MI	-0.1514	CU M
SP3		08.28.2004	4.1	0	CU M/MI	-0.4542	CU M
SP3		08.28.2004	4.15	0.0166	CU M/MI	-4.04995	CU M
SP3		08.28.2004	4.2	0.01327	CU M/MI	-4.0121	CU M
SP3		08.28.2004	4.25	0.01321	CU M/MI	-3.9364	CU M
SP3		08.28.2004	4.3	0.01321	CU M/MI	-3.8607	CU M
SP3		08.28.2004	4.35	0.01331	CU M/MI	-3.785	CU M
SP3		08.28.2004	4.4	0.01307	CU M/MI	-3.74715	CU M
SP3		08.28.2004	4.45	0.01305	CU M/MI	-3.7093	CU M
SP3		08.28.2004	4.5	0.01279	CU M/MI	-3.6336	CU M
SP3		08.28.2004	4.55	0.00948	CU M/MI	-3.7093	CU M
SP3		08.28.2004	5	0.01286	CU M/MI	-3.6336	CU M
SP3		08.28.2004	5.05	0.01249	CU M/MI	-5.6018	CU M
SP3		08.28.2004	5.1	0.01318	CU M/MI	-5.56395	CU M
SP3		08.28.2004	5.15	0.01321	CU M/MI	-5.48825	CU M
SP3		08.28.2004	5.2	0.0133	CU M/MI	-5.41255	CU M
SP3		08.28.2004	5.25	0.01334	CU M/MI	-5.33685	CU M
SP3		08.28.2004	5.3	0.50812	CU M/MI	-4.0121	CU M
SP3		08.28.2004	5.35	0.01401	CU M/MI	-5.41255	CU M
SP3		08.28.2004	5.4	0.01332	CU M/MI	-5.33685	CU M
SP3		08.28.2004	5.45	0.01386	CU M/MI	-5.26115	CU M
SP3		08.28.2004	5.5	0.01378	CU M/MI	-5.2233	CU M
SP3		08.28.2004	5.55	0.01319	CU M/MI	-5.1476	CU M
SP3	Day 1	08.29.2004	0.1	0.01297	CU M/MI	-25.79545455	CU M
SP3	Day 1	08.29.2004	0.15	0.01333	CU M/MI	-25.71969697	CU M
SP3	Day 1	08.29.2004	0.2	0.01314	CU M/MI	-25.68181818	CU M
SP3	Day 1	08.29.2004	0.25	0.01293	CU M/MI	-25.60606061	CU M
SP3	Day 1	08.29.2004	0.3	0.01291	CU M/MI	-25.53030303	CU M
SP3	Day 1	08.29.2004	0.35	0.01277	CU M/MI	-25.49242424	CU M
SP3	Day 1	08.29.2004	0.4	0.01282	CU M/MI	-25.41666667	CU M
SP3	Day 1	08.29.2004	0.45	0.01279	CU M/MI	-25.34090909	CU M
SP3	Day 1	08.29.2004	0.5	0.0123	CU M/MI	-25.26515152	CU M
SP3	Day 1	08.29.2004	0.55	0.013	CU M/MI	-25.22727273	CU M
SP3	Day 1	08.29.2004	1	0.01258	CU M/MI	-25.15151515	CU M
SP3	Day 1	08.29.2004	1.05	0.01285	CU M/MI	-25.07575758	CU M
SP3	Day 1	08.29.2004	1.1	0.0128	CU M/MI	-25.03787879	CU M
SP3	Day 1	08.29.2004	1.15	0.01248	CU M/MI	-24.96212121	CU M
SP3	Day 1	08.29.2004	1.2	0	CU M/MI	-24.92424242	CU M
SP3	Day 1	08.29.2004	1.25	0.01246	CU M/MI	-24.92424242	CU M
SP3	Day 1	08.29.2004	1.3	0.01233	CU M/MI	-24.96212121	CU M
SP3	Day 1	08.29.2004	1.35	0.01266	CU M/MI	-24.88636364	CU M
SP3	Day 1	08.29.2004	1.4	0.01253	CU M/MI	-24.81060606	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3	Day 1	08.29.2004	1.45	0.01255	CU M/MI	-24.77272727	CU M
SP3	Day 1	08.29.2004	1.5	0.01258	CU M/MI	-24.77272727	CU M
SP3	Day 1	08.29.2004	1.55	0	CU M/MI	-24.73484848	CU M
SP3	Day 1	08.29.2004	2	0	CU M/MI	-24.92424242	CU M
SP3	Day 1	08.29.2004	2.05	0	CU M/MI	-25.22727273	CU M
SP3	Day 1	08.29.2004	2.1	0	CU M/MI	-25.49242424	CU M
SP3	Day 1	08.29.2004	2.15	0	CU M/MI	-25.68181818	CU M
SP3	Day 1	08.29.2004	2.2	0	CU M/MI	-25.9469697	CU M
SP3	Day 1	08.29.2004	2.25	0	CU M/MI	-26.25	CU M
SP3	Day 1	08.29.2004	2.3	0	CU M/MI	-26.5530303	CU M
SP3	Day 1	08.29.2004	2.35	0	CU M/MI	-26.85606061	CU M
SP3	Day 1	08.29.2004	2.4	0.01165	CU M/MI	-27.08333333	CU M
SP3	Day 1	08.29.2004	2.45	0	CU M/MI	-27.27272727	CU M
SP3	Day 1	08.29.2004	2.5	0	CU M/MI	-27.57575758	CU M
SP3	Day 1	08.29.2004	2.55	0	CU M/MI	-27.87878788	CU M
SP3	Day 1	08.29.2004	3	0	CU M/MI	-28.18181818	CU M
SP3	Day 1	08.29.2004	3.05	0	CU M/MI	-28.4469697	CU M
SP3	Day 1	08.29.2004	3.1	0	CU M/MI	-28.75	CU M
SP3	Day 1	08.29.2004	3.15	0.01182	CU M/MI	-29.01515152	CU M
SP3	Day 1	08.29.2004	3.2	0.01203	CU M/MI	-28.93939394	CU M
SP3	Day 1	08.29.2004	3.25	0	CU M/MI	-29.20454545	CU M
SP3	Day 1	08.29.2004	3.3	0	CU M/MI	-29.31818182	CU M
SP3	Day 1	08.29.2004	3.35	0	CU M/MI	-29.62121212	CU M
SP3	Day 1	08.29.2004	3.4	0.59464	CU M/MI	-29.50757576	CU M
SP3	Day 1	08.29.2004	3.45	0.01305	CU M/MI	-29.20454545	CU M
SP3	Day 1	08.29.2004	3.5	0.01274	CU M/MI	-29.16666667	CU M
SP3	Day 1	08.29.2004	3.55	0.01294	CU M/MI	-29.09090909	CU M
SP3	Day 1	08.29.2004	4	0.01271	CU M/MI	-29.0530303	CU M
SP3	Day 1	08.29.2004	4.05	0.01218	CU M/MI	-29.0530303	CU M
SP3	Day 1	08.29.2004	4.1	0.0127	CU M/MI	-28.97727273	CU M
SP3	Day 1	08.29.2004	4.15	0.01261	CU M/MI	-28.90151515	CU M
SP3	Day 1	08.29.2004	4.2	0.0125	CU M/MI	-28.86363636	CU M
SP3	Day 1	08.29.2004	4.25	0.01267	CU M/MI	-28.78787879	CU M
SP3	Day 1	08.29.2004	4.3	0.0113	CU M/MI	-28.71212121	CU M
SP3	Day 1	08.29.2004	4.35	0.01287	CU M/MI	-28.67424242	CU M
SP3	Day 1	08.29.2004	4.4	0.01268	CU M/MI	-28.59848485	CU M
SP3	Day 1	08.29.2004	4.45	0.01261	CU M/MI	-28.52272727	CU M
SP3	Day 1	08.29.2004	4.5	0.01248	CU M/MI	-28.48484848	CU M
SP3	Day 1	08.29.2004	4.55	0.01233	CU M/MI	-28.56060606	CU M
SP3	Day 1	08.29.2004	5	0	CU M/MI	-28.71212121	CU M
SP3	Day 1	08.29.2004	5.05	0	CU M/MI	-28.97727273	CU M
SP3	Day 1	08.29.2004	5.1	0	CU M/MI	-29.24242424	CU M
SP3	Day 1	08.29.2004	5.15	0	CU M/MI	-29.50757576	CU M
SP3	Day 1	08.29.2004	5.2	0	CU M/MI	-29.77272727	CU M
SP3	Day 1	08.29.2004	5.25	0	CU M/MI	-30.03787879	CU M
SP3	Day 1	08.29.2004	5.3	0	CU M/MI	-30.37878788	CU M
SP3	Day 1	08.29.2004	5.35	0	CU M/MI	-30.68181818	CU M
SP3	Day 1	08.29.2004	5.4	0	CU M/MI	-30.9469697	CU M
SP3	Day 1	08.29.2004	5.45	0	CU M/MI	-31.25	CU M
SP3	Day 1	08.29.2004	5.5	0	CU M/MI	-31.5530303	CU M
SP3	Day 1	08.29.2004	5.55	0	CU M/MI	-31.85606061	CU M
SP3	Day 2	08.29.2004	6	0	CU M/MI	-32.15909091	CU M
SP3	Day 2	08.29.2004	6.05	0	CU M/MI	-32.42424242	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3	Day 2	08.29.2004	6.1	0	CU M/MI	-32.72727273	CU M
SP3	Day 2	08.29.2004	6.15	0	CU M/MI	-33.03030303	CU M
SP3	Day 2	08.29.2004	6.2	0	CU M/MI	-33.29545455	CU M
SP3	Day 2	08.29.2004	6.25	0	CU M/MI	-33.59848485	CU M
SP3	Day 2	08.29.2004	6.3	0	CU M/MI	-33.90151515	CU M
SP3	Day 2	08.29.2004	6.35	0	CU M/MI	-34.20454545	CU M
SP3	Day 2	08.29.2004	6.4	0	CU M/MI	-34.46969697	CU M
SP3	Day 2	08.29.2004	6.45	0	CU M/MI	-34.77272727	CU M
SP3	Day 2	08.29.2004	6.5	0	CU M/MI	-35.07575758	CU M
SP3	Day 2	08.29.2004	6.55	0.01187	CU M/MI	-39.84848485	CU M
SP3	Day 2	08.29.2004	7	0.01223	CU M/MI	-39.81060606	CU M
SP3	Day 2	08.29.2004	7.05	0.0128	CU M/MI	-39.73484848	CU M
SP3	Day 2	08.29.2004	7.1	0.01259	CU M/MI	-39.65909091	CU M
SP3	Day 2	08.29.2004	7.15	0.0121	CU M/MI	-39.73484848	CU M
SP3	Day 2	08.29.2004	7.2	0	CU M/MI	-39.88636364	CU M
SP3	Day 2	08.29.2004	7.25	0.60488	CU M/MI	-39.92424242	CU M
SP3	Day 2	08.29.2004	7.3	0.01267	CU M/MI	-43.86363636	CU M
SP3	Day 2	08.29.2004	7.35	0.01317	CU M/MI	-43.82575758	CU M
SP3	Day 2	08.29.2004	7.4	0.01329	CU M/MI	-43.75	CU M
SP3	Day 2	08.29.2004	7.45	0.01321	CU M/MI	-43.67424242	CU M
SP3	Day 2	08.29.2004	7.5	0.01294	CU M/MI	-43.59848485	CU M
SP3	Day 2	08.29.2004	7.55	0.51796	CU M/MI	-42.65151515	CU M
SP3	Day 2	08.29.2004	8	0.01257	CU M/MI	-44.50757576	CU M
SP3	Day 2	08.29.2004	8.05	0.01313	CU M/MI	-44.43181818	CU M
SP3	Day 2	08.29.2004	8.1	0.0131	CU M/MI	-44.39393939	CU M
SP3	Day 2	08.29.2004	8.15	0	CU M/MI	-45.37878788	CU M
SP3	Day 2	08.29.2004	8.2	0.01338	CU M/MI	-45.34090909	CU M
SP3	Day 2	08.29.2004	8.25	0.0131	CU M/MI	-45.26515152	CU M
SP3	Day 2	08.29.2004	8.3	0.01296	CU M/MI	-45.18939394	CU M
SP3	Day 2	08.29.2004	8.35	0	CU M/MI	-48.21969697	CU M
SP3	Day 2	08.29.2004	8.4	0.01333	CU M/MI	-49.77272727	CU M
SP3	Day 2	08.29.2004	8.45	0.01321	CU M/MI	-49.6969697	CU M
SP3	Day 2	08.29.2004	8.5	0.01357	CU M/MI	-49.62121212	CU M
SP3	Day 2	08.29.2004	8.55	0.01286	CU M/MI	-49.58333333	CU M
SP3	Day 2	08.29.2004	9	0.01324	CU M/MI	-49.50757576	CU M
SP3	Day 2	08.29.2004	9.05	0.01293	CU M/MI	-49.43181818	CU M
SP3	Day 2	08.29.2004	9.1	0.60054	CU M/MI	-51.51515152	CU M
SP3	Day 2	08.29.2004	9.15	0.01309	CU M/MI	-52.65151515	CU M
SP3	Day 2	08.29.2004	9.2	0.01352	CU M/MI	-52.57575758	CU M
SP3	Day 2	08.29.2004	9.25	0.01293	CU M/MI	-52.5	CU M
SP3	Day 2	08.29.2004	9.3	0.01294	CU M/MI	-52.42424242	CU M
SP3	Day 2	08.29.2004	9.35	0.01301	CU M/MI	-52.38636364	CU M
SP3	Day 2	08.29.2004	9.4	0.01262	CU M/MI	-52.31060606	CU M
SP3	Day 2	08.29.2004	9.45	0.50909	CU M/MI	-51.32575758	CU M
SP3	Day 2	08.29.2004	9.5	0.01307	CU M/MI	-50.75757576	CU M
SP3	Day 2	08.29.2004	9.55	0.01323	CU M/MI	-50.68181818	CU M
SP3	Day 2	08.29.2004	10	0.01319	CU M/MI	-50.64393939	CU M
SP3	Day 2	08.29.2004	10.05	0.01325	CU M/MI	-50.56818182	CU M
SP3	Day 2	08.29.2004	10.1	0.01307	CU M/MI	-50.49242424	CU M
SP3	Day 2	08.29.2004	10.15	0.01301	CU M/MI	-50.45454545	CU M
SP3	Day 2	08.29.2004	10.2	0.01259	CU M/MI	-50.37878788	CU M
SP3	Day 2	08.29.2004	10.25	0.01426	CU M/MI	-50.79545455	CU M
SP3	Day 2	08.29.2004	10.3	0.01293	CU M/MI	-50.71969697	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3	Day 2	08.29.2004	10.35	0.01292	CU M/MI	-50.68181818	CU M
SP3	Day 2	08.29.2004	10.4	0.01341	CU M/MI	-50.60606061	CU M
SP3	Day 2	08.29.2004	10.45	0.01256	CU M/MI	-50.53030303	CU M
SP3	Day 2	08.29.2004	10.5	0.01266	CU M/MI	-50.53030303	CU M
SP3	Day 2	08.29.2004	10.55	0.01309	CU M/MI	-50.45454545	CU M
SP3	Day 2	08.29.2004	11	0.01555	CU M/MI	-49.6969697	CU M
SP3	Day 2	08.29.2004	11.05	0.01323	CU M/MI	-49.62121212	CU M
SP3	Day 2	08.29.2004	11.1	0.01284	CU M/MI	-49.58333333	CU M
SP3	Day 2	08.29.2004	11.15	0.01313	CU M/MI	-49.50757576	CU M
SP3	Day 2	08.29.2004	11.2	0.01323	CU M/MI	-49.43181818	CU M
SP3	Day 2	08.29.2004	11.25	0.01296	CU M/MI	-49.35606061	CU M
SP3	Day 2	08.29.2004	11.3	0.01279	CU M/MI	-49.31818182	CU M
SP3	Day 2	08.29.2004	11.35	0.01251	CU M/MI	-49.24242424	CU M
SP3	Day 2	08.29.2004	11.4	0.01182	CU M/MI	-49.24242424	CU M
SP3	Day 2	08.29.2004	11.45	0.39921	CU M/MI	-49.24242424	CU M
SP3	Day 2	08.29.2004	11.5	0.0132	CU M/MI	-50.3030303	CU M
SP3	Day 2	08.29.2004	11.55	0.0134	CU M/MI	-50.22727273	CU M
SP3	Day 2	08.29.2004	12	0.01285	CU M/MI	-50.15151515	CU M
SP3	Day 2	08.29.2004	12.05	0.01296	CU M/MI	-50.11363636	CU M
SP3	Day 2	08.29.2004	12.1	0.01304	CU M/MI	-50.03787879	CU M
SP3	Day 2	08.29.2004	12.15	0.51461	CU M/MI	-49.65909091	CU M
SP3	Day 2	08.29.2004	12.2	0.01336	CU M/MI	-49.92424242	CU M
SP3	Day 2	08.29.2004	12.25	0.01326	CU M/MI	-49.88636364	CU M
SP3	Day 2	08.29.2004	12.3	0.0131	CU M/MI	-49.81060606	CU M
SP3	Day 2	08.29.2004	12.35	0.01352	CU M/MI	-49.73484848	CU M
SP3	Day 2	08.29.2004	12.4	0.01291	CU M/MI	-49.6969697	CU M
SP3	Day 2	08.29.2004	12.45	0.0128	CU M/MI	-49.62121212	CU M
SP3	Day 2	08.29.2004	12.5	0.01308	CU M/MI	-49.54545455	CU M
SP3	Day 2	08.29.2004	12.55	0.0128	CU M/MI	-49.46969697	CU M
SP3	Day 2	08.29.2004	13	0.01273	CU M/MI	-49.43181818	CU M
SP3	Day 2	08.29.2004	13.05	0.01307	CU M/MI	-49.35606061	CU M
SP3	Day 2	08.29.2004	13.1	0.01251	CU M/MI	-49.28030303	CU M
SP3	Day 2	08.29.2004	13.15	0.01282	CU M/MI	-49.24242424	CU M
SP3	Day 2	08.29.2004	13.2	0.0129	CU M/MI	-49.16666667	CU M
SP3	Day 2	08.29.2004	13.25	0.01264	CU M/MI	-49.09090909	CU M
SP3	Day 2	08.29.2004	13.3	0.59364	CU M/MI	-47.72727273	CU M
SP3	Day 2	08.29.2004	13.35	0.01299	CU M/MI	-47.46212121	CU M
SP3	Day 2	08.29.2004	13.4	0.01292	CU M/MI	-47.38636364	CU M
SP3	Day 2	08.29.2004	13.45	0.01291	CU M/MI	-47.34848485	CU M
SP3	Day 2	08.29.2004	13.5	0.01321	CU M/MI	-47.27272727	CU M
SP3	Day 2	08.29.2004	13.55	0.01321	CU M/MI	-47.1969697	CU M
SP3	Day 2	08.29.2004	14	0.01304	CU M/MI	-47.12121212	CU M
SP3	Day 2	08.29.2004	14.05	0.01323	CU M/MI	-47.08333333	CU M
SP3	Day 2	08.29.2004	14.1	0.0127	CU M/MI	-47.00757576	CU M
SP3	Day 2	08.29.2004	14.15	0.01299	CU M/MI	-46.93181818	CU M
SP3	Day 2	08.29.2004	14.2	0	CU M/MI	-46.96969697	CU M
SP3	Day 2	08.29.2004	14.25	0.00987	CU M/MI	-47.1969697	CU M
SP3	Day 2	08.29.2004	14.3	0	CU M/MI	-47.76515152	CU M
SP3	Day 2	08.29.2004	14.35	0.01285	CU M/MI	-50.64393939	CU M
SP3	Day 2	08.29.2004	14.4	0.01287	CU M/MI	-50.56818182	CU M
SP3	Day 2	08.29.2004	14.45	0.01287	CU M/MI	-50.49242424	CU M
SP3	Day 2	08.29.2004	14.5	0.01313	CU M/MI	-50.41666667	CU M
SP3	Day 2	08.29.2004	14.55	0.01298	CU M/MI	-50.37878788	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3	Day 2	08.29.2004	15	0.01305	CU M/MI	-50.3030303	CU M
SP3	Day 2	08.29.2004	15.05	0.01304	CU M/MI	-50.22727273	CU M
SP3	Day 2	08.29.2004	15.1	0	CU M/MI	-50.3030303	CU M
SP3	Day 2	08.29.2004	15.15	0	CU M/MI	-50.56818182	CU M
SP3	Day 2	08.29.2004	15.2	0	CU M/MI	-50.83333333	CU M
SP3	Day 2	08.29.2004	15.25	0	CU M/MI	-51.06060606	CU M
SP3	Day 2	08.29.2004	15.3	0	CU M/MI	-61.66666667	CU M
SP3	Day 2	08.29.2004	15.35	0	CU M/MI	-61.89393939	CU M
SP3	Day 2	08.29.2004	15.4	0	CU M/MI	-62.15909091	CU M
SP3	Day 2	08.29.2004	15.45	0	CU M/MI	-62.38636364	CU M
SP3	Day 2	08.29.2004	15.5	0	CU M/MI	-62.65151515	CU M
SP3	Day 2	08.29.2004	15.55	0	CU M/MI	-62.87878788	CU M
SP3	Day 2	08.29.2004	16	0	CU M/MI	-63.14393939	CU M
SP3	Day 2	08.29.2004	16.05	0	CU M/MI	-73.67424242	CU M
SP3	Day 2	08.29.2004	16.1	0	CU M/MI	-77.5	CU M
SP3	Day 2	08.29.2004	16.15	0	CU M/MI	-78.14393939	CU M
SP3	Day 2	08.29.2004	16.2	0	CU M/MI	-78.37121212	CU M
SP3	Day 2	08.29.2004	16.25	0	CU M/MI	-78.63636364	CU M
SP3	Day 2	08.29.2004	16.3	0	CU M/MI	-78.86363636	CU M
SP3	Day 2	08.29.2004	16.35	0	CU M/MI	-79.12878788	CU M
SP3	Day 2	08.29.2004	16.4	0	CU M/MI	-79.35606061	CU M
SP3	Day 2	08.29.2004	20.1	0.01336	CU M/MI	-138.4848485	CU M
SP3	Day 2	08.29.2004	20.15	0.01334	CU M/MI	-138.4090909	CU M
SP3	Day 2	08.29.2004	20.2	0.01358	CU M/MI	-138.3333333	CU M
SP3	Day 2	08.29.2004	20.25	0.01316	CU M/MI	-138.2575758	CU M
SP3	Day 2	08.29.2004	20.3	0.01366	CU M/MI	-138.219697	CU M
SP3	Day 2	08.29.2004	20.35	0.01314	CU M/MI	-138.1439394	CU M
SP3	Day 2	08.29.2004	20.4	0.52124	CU M/MI	-137.8030303	CU M
SP3	Day 2	08.29.2004	20.45	0.01365	CU M/MI	-140.1136364	CU M
SP3	Day 2	08.29.2004	20.5	0.01363	CU M/MI	-140.0378788	CU M
SP3	Day 2	08.29.2004	20.55	0.01363	CU M/MI	-139.9621212	CU M
SP3	Day 2	08.29.2004	21	0.01384	CU M/MI	-139.8863636	CU M
SP3	Day 2	08.29.2004	21.05	0.01344	CU M/MI	-139.8484848	CU M
SP3	Day 2	08.29.2004	21.1	0.01354	CU M/MI	-139.7727273	CU M
SP3	Day 2	08.29.2004	21.15	0.01324	CU M/MI	-139.6969697	CU M
SP3	Day 2	08.29.2004	21.2	0.01329	CU M/MI	-139.6212121	CU M
SP3	Day 2	08.29.2004	21.25	0.0132	CU M/MI	-139.5454545	CU M
SP3	Day 2	08.29.2004	21.3	0.01346	CU M/MI	-139.5075758	CU M
SP3	Day 2	08.29.2004	21.35	0.01291	CU M/MI	-139.4318182	CU M
SP3	Day 2	08.29.2004	21.4	0.01342	CU M/MI	-139.3560606	CU M
SP3	Day 2	08.29.2004	21.45	0	CU M/MI	-139.3939394	CU M
SP3	Day 2	08.29.2004	21.5	0.01178	CU M/MI	-139.4318182	CU M
SP3	Day 2	08.29.2004	21.55	0.01312	CU M/MI	-139.3560606	CU M
SP3	Day 2	08.29.2004	22	0.0132	CU M/MI	-139.5075758	CU M
SP3	Day 2	08.29.2004	22.05	0.01286	CU M/MI	-139.5833333	CU M
SP3	Day 2	08.29.2004	22.1	0.01272	CU M/MI	-139.5075758	CU M
SP3	Day 2	08.29.2004	22.15	0.01288	CU M/MI	-139.5075758	CU M
SP3	Day 2	08.29.2004	22.2	0.60744	CU M/MI	-138.8636364	CU M
SP3	Day 2	08.29.2004	22.25	0.01348	CU M/MI	-137.6515152	CU M
SP3	Day 2	08.29.2004	22.3	0.01375	CU M/MI	-137.5757576	CU M
SP3	Day 2	08.29.2004	22.35	0.01393	CU M/MI	-137.5378788	CU M
SP3	Day 2	08.29.2004	22.4	0.014	CU M/MI	-137.4621212	CU M
SP3	Day 2	08.29.2004	22.45	0.01331	CU M/MI	-137.3863636	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3	Day 2	08.29.2004	22.5	0.01356	CU M/MI	-137.3106061	CU M
SP3	Day 2	08.29.2004	22.55	0.01342	CU M/MI	-137.2348485	CU M
SP3	Day 2	08.29.2004	23	0.0135	CU M/MI	-137.1969697	CU M
SP3	Day 2	08.29.2004	23.05	0.01318	CU M/MI	-137.1212121	CU M
SP3	Day 2	08.29.2004	23.1	0.01331	CU M/MI	-137.0454545	CU M
SP3	Day 2	08.29.2004	23.15	0.01353	CU M/MI	-136.969697	CU M
SP3	Day 2	08.29.2004	23.2	0.01339	CU M/MI	-136.9318182	CU M
SP3	Day 2	08.29.2004	23.25	0.01296	CU M/MI	-136.8560606	CU M
SP3	Day 2	08.29.2004	23.3	0.01323	CU M/MI	-136.780303	CU M
SP3	Day 2	08.29.2004	23.35	0.01297	CU M/MI	-136.7424242	CU M
SP3	Day 2	08.29.2004	23.4	0.01318	CU M/MI	-136.6666667	CU M
SP3	Day 2	08.29.2004	23.45	0.01298	CU M/MI	-136.6666667	CU M
SP3	Day 2	08.29.2004	23.5	0.01318	CU M/MI	-136.7045455	CU M
SP3	Day 2	08.29.2004	23.55	0.01305	CU M/MI	-136.6287879	CU M
SP3	Day 2	08.30.2004	0	0.01287	CU M/MI	-136.5909091	CU M
SP3	Day 2	08.30.2004	0.05	0.51618	CU M/MI	-135.4545455	CU M
SP3	Day 2	08.30.2004	0.1	0.01356	CU M/MI	-134.7348485	CU M
SP3	Day 2	08.30.2004	0.15	0.0134	CU M/MI	-134.6590909	CU M
SP3	Day 2	08.30.2004	0.2	0.01351	CU M/MI	-134.6212121	CU M
SP3	Day 2	08.30.2004	0.25	0.0135	CU M/MI	-134.5454545	CU M
SP3	Day 2	08.30.2004	0.3	0.01345	CU M/MI	-134.469697	CU M
SP3	Day 2	08.30.2004	0.35	0.00203	CU M/MI	-134.469697	CU M
SP3	Day 2	08.30.2004	0.4	0.01343	CU M/MI	-134.4318182	CU M
SP3	Day 2	08.30.2004	0.45	0.01275	CU M/MI	-134.3560606	CU M
SP3	Day 2	08.30.2004	0.5	0.01308	CU M/MI	-134.280303	CU M
SP3	Day 2	08.30.2004	0.55	0.0135	CU M/MI	-134.2424242	CU M
SP3	Day 2	08.30.2004	1	0.01313	CU M/MI	-134.1666667	CU M
SP3	Day 2	08.30.2004	1.05	0.01292	CU M/MI	-134.0909091	CU M
SP3	Day 2	08.30.2004	1.1	0.01319	CU M/MI	-134.0151515	CU M
SP3	Day 2	08.30.2004	1.15	0.01302	CU M/MI	-133.9772727	CU M
SP3	Day 2	08.30.2004	1.2	0	CU M/MI	-134.0530303	CU M
SP3	Day 2	08.30.2004	1.25	0	CU M/MI	-134.3181818	CU M
SP3	Day 2	08.30.2004	1.3	0	CU M/MI	-134.5454545	CU M
SP3	Day 2	08.30.2004	1.35	0	CU M/MI	-134.8106061	CU M
SP3	Day 2	08.30.2004	1.4	0	CU M/MI	-135.0378788	CU M
SP3	Day 2	08.30.2004	1.45	0	CU M/MI	-135.3030303	CU M
SP3	Day 2	08.30.2004	1.5	0.013	CU M/MI	-135.3409091	CU M
SP3	Day 2	08.30.2004	1.55	0.01284	CU M/MI	-135.3409091	CU M
SP3	Day 2	08.30.2004	2	0.01255	CU M/MI	-135.2651515	CU M
SP3	Day 2	08.30.2004	2.05	0.00755	CU M/MI	-135.4166667	CU M
SP3	Day 2	08.30.2004	2.1	0.01264	CU M/MI	-135.3409091	CU M
SP3	Day 2	08.30.2004	2.15	0.01295	CU M/MI	-135.2651515	CU M
SP3	Day 2	08.30.2004	2.2	0.01252	CU M/MI	-135.2272727	CU M
SP3	Day 2	08.30.2004	2.25	0.01275	CU M/MI	-135.1515152	CU M
SP3	Day 2	08.30.2004	2.3	0.0129	CU M/MI	-135.0757576	CU M
SP3	Day 2	08.30.2004	2.35	0.01271	CU M/MI	-135	CU M
SP3	Day 2	08.30.2004	2.4	0.0125	CU M/MI	-134.9621212	CU M
SP3	Day 2	08.30.2004	2.45	0.01256	CU M/MI	-134.8863636	CU M
SP3	Day 2	08.30.2004	2.5	0.01302	CU M/MI	-134.8106061	CU M
SP3	Day 2	08.30.2004	2.55	0.01313	CU M/MI	-134.7727273	CU M
SP3	Day 2	08.30.2004	3	0.0129	CU M/MI	-134.7727273	CU M
SP3	Day 2	08.30.2004	3.05	0.0126	CU M/MI	-134.6969697	CU M
SP3	Day 2	08.30.2004	3.1	0.01264	CU M/MI	-134.6212121	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3	Day 2	08.30.2004	3.15	0.01278	CU M/MI	-134.5833333	CU M
SP3	Day 2	08.30.2004	3.2	0	CU M/MI	-134.5075758	CU M
SP3	Day 2	08.30.2004	3.25	0.01297	CU M/MI	-134.469697	CU M
SP3	Day 2	08.30.2004	3.3	0.01275	CU M/MI	-134.3939394	CU M
SP3	Day 2	08.30.2004	3.35	0.01244	CU M/MI	-134.4318182	CU M
SP3	Day 2	08.30.2004	3.4	0.01271	CU M/MI	-134.3560606	CU M
SP3	Day 2	08.30.2004	3.45	0.01275	CU M/MI	-134.280303	CU M
SP3	Day 2	08.30.2004	3.5	0.01277	CU M/MI	-134.2424242	CU M
SP3	Day 2	08.30.2004	3.55	0.01259	CU M/MI	-134.3181818	CU M
SP3	Day 2	08.30.2004	4	0.01279	CU M/MI	-134.2424242	CU M
SP3	Day 2	08.30.2004	4.05	0.01083	CU M/MI	-134.2045455	CU M
SP3	Day 2	08.30.2004	4.1	0.01267	CU M/MI	-134.1666667	CU M
SP3	Day 2	08.30.2004	4.15	0	CU M/MI	-134.2424242	CU M
SP3	Day 2	08.30.2004	4.2	0.01206	CU M/MI	-134.469697	CU M
SP3	Day 2	08.30.2004	4.25	0	CU M/MI	-134.4318182	CU M
SP3	Day 2	08.30.2004	4.3	0	CU M/MI	-134.6590909	CU M
SP3	Day 2	08.30.2004	4.35	0.00888	CU M/MI	-134.9242424	CU M
SP3	Day 2	08.30.2004	4.4	0.01264	CU M/MI	-134.8484848	CU M
SP3	Day 2	08.30.2004	4.45	0.01302	CU M/MI	-134.8106061	CU M
SP3	Day 2	08.30.2004	4.5	0	CU M/MI	-135.0378788	CU M
SP3	Day 2	08.30.2004	4.55	0	CU M/MI	-135.3409091	CU M
SP3	Day 2	08.30.2004	5	0	CU M/MI	-135.6060606	CU M
SP3	Day 2	08.30.2004	5.05	0.01309	CU M/MI	-135.7575758	CU M
SP3	Day 2	08.30.2004	5.1	0.01275	CU M/MI	-135.6818182	CU M
SP3	Day 2	08.30.2004	5.15	0	CU M/MI	-135.7954545	CU M
SP3	Day 2	08.30.2004	5.2	0	CU M/MI	-136.0227273	CU M
SP3	Day 2	08.30.2004	5.25	0	CU M/MI	-136.25	CU M
SP3	Day 2	08.30.2004	5.3	0	CU M/MI	-136.4015152	CU M
SP3	Day 2	08.30.2004	5.35	0.01215	CU M/MI	-136.6287879	CU M
SP3	Day 2	08.30.2004	5.4	0.01234	CU M/MI	-136.5530303	CU M
SP3	Day 2	08.30.2004	5.45	0	CU M/MI	-136.6666667	CU M
SP3	Day 2	08.30.2004	5.5	0	CU M/MI	-136.9318182	CU M
SP3	Day 2	08.30.2004	5.55	0	CU M/MI	-137.1969697	CU M
SP3	Day 3	08.30.2004	6	0	CU M/MI	-137.5	CU M
SP3	Day 3	08.30.2004	6.05	0.01236	CU M/MI	-137.5	CU M
SP3	Day 3	08.30.2004	6.1	0	CU M/MI	-137.6136364	CU M
SP3	Day 3	08.30.2004	6.15	0.0126	CU M/MI	-137.5757576	CU M
SP3	Day 3	08.30.2004	6.2	0	CU M/MI	-137.6136364	CU M
SP3	Day 3	08.30.2004	6.25	0.01129	CU M/MI	-137.8409091	CU M
SP3	Day 3	08.30.2004	6.3	0.01314	CU M/MI	-143.4848485	CU M
SP3	Day 3	08.30.2004	6.35	0.01291	CU M/MI	-143.4469697	CU M
SP3	Day 3	08.30.2004	6.4	0.0132	CU M/MI	-143.3712121	CU M
SP3	Day 3	08.30.2004	6.45	0.01262	CU M/MI	-143.2954545	CU M
SP3	Day 3	08.30.2004	6.5	0	CU M/MI	-143.2575758	CU M
SP3	Day 3	08.30.2004	6.55	0.01284	CU M/MI	-143.3712121	CU M
SP3	Day 3	08.30.2004	7	0.01283	CU M/MI	-143.2954545	CU M
SP3	Day 3	08.30.2004	7.05	0.51719	CU M/MI	-145.8712121	CU M
SP3	Day 3	08.30.2004	7.1	0.01304	CU M/MI	-146.5909091	CU M
SP3	Day 3	08.30.2004	7.15	0.01316	CU M/MI	-146.5530303	CU M
SP3	Day 3	08.30.2004	7.2	0.01322	CU M/MI	-146.4772727	CU M
SP3	Day 3	08.30.2004	7.25	0.01344	CU M/MI	-146.4015152	CU M
SP3	Day 3	08.30.2004	7.3	0.01301	CU M/MI	-146.3257576	CU M
SP3	Day 3	08.30.2004	7.35	0.59908	CU M/MI	-145.6818182	CU M

Appendix B
Raw Flow from Accommodations (SP-3)
23 August Through 3 September 2004

Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3	Day 3	08.30.2004	7.4	0.01349	CU M/MI	-150.9469697	CU M
SP3	Day 3	08.30.2004	7.45	0.01362	CU M/MI	-150.9848485	CU M
SP3	Day 3	08.30.2004	7.5	0.01362	CU M/MI	-150.9090909	CU M
SP3	Day 3	08.30.2004	7.55	0.01364	CU M/MI	-150.8333333	CU M
SP3	Day 3	08.30.2004	8	0.01328	CU M/MI	-150.7575758	CU M
SP3	Day 3	08.30.2004	8.05	0.01399	CU M/MI	-150.719697	CU M
SP3	Day 3	08.30.2004	8.1	0.00831	CU M/MI	-163.4848485	CU M
SP3	Day 3	08.30.2004	8.15	0.01406	CU M/MI	-163.4469697	CU M
SP3	Day 3	08.30.2004	8.2	0.01358	CU M/MI	-163.3712121	CU M
SP3	Day 3	08.30.2004	8.25	0.01329	CU M/MI	-163.3333333	CU M
SP3	Day 3	08.30.2004	8.3	0.01342	CU M/MI	-163.2575758	CU M
SP3	Day 3	08.30.2004	8.35	0.01329	CU M/MI	-163.1818182	CU M
SP3	Day 3	08.30.2004	8.4	0.014	CU M/MI	-166.8939394	CU M
SP3	Day 3	08.30.2004	8.45	0.01387	CU M/MI	-166.8560606	CU M
SP3	Day 3	08.30.2004	8.5	0.0135	CU M/MI	-166.780303	CU M
SP3	Day 3	08.30.2004	8.55	0.01378	CU M/MI	-166.7045455	CU M
SP3	Day 3	08.30.2004	9	0.01372	CU M/MI	-166.6287879	CU M
SP3	Day 3	08.30.2004	9.05	0.51022	CU M/MI	-168.6363636	CU M
SP3	Day 3	08.30.2004	9.1	0.0139	CU M/MI	-167.8787879	CU M
SP3	Day 3	08.30.2004	9.15	0.01366	CU M/MI	-167.8409091	CU M
SP3	Day 3	08.30.2004	9.2	0.01362	CU M/MI	-167.7651515	CU M
SP3	Day 3	08.30.2004	9.25	0.01376	CU M/MI	-167.6893939	CU M
SP3	Day 3	08.30.2004	9.3	0.01311	CU M/MI	-167.6136364	CU M
SP3	Day 3	08.30.2004	9.35	0.01346	CU M/MI	-167.5378788	CU M
SP3	Day 3	08.30.2004	9.4	0.01349	CU M/MI	-166.0606061	CU M
SP3	Day 3	08.30.2004	9.45	0.01338	CU M/MI	-165.9848485	CU M
SP3	Day 3	08.30.2004	9.5	0.01325	CU M/MI	-165.9090909	CU M
SP3	Day 3	08.30.2004	9.55	0.01341	CU M/MI	-165.8333333	CU M
SP3	Day 3	08.30.2004	10	0.01352	CU M/MI	-165.7954545	CU M
SP3	Day 3	08.30.2004	10.05	0.01338	CU M/MI	-165.719697	CU M
SP3	Day 3	08.30.2004	10.1	0.01326	CU M/MI	-165.6439394	CU M
SP3	Day 3	08.30.2004	10.15	0.01315	CU M/MI	-165.5681818	CU M
SP3	Day 3	08.30.2004	10.2	0.01092	CU M/MI	-165.530303	CU M
SP3	Day 3	08.30.2004	10.25	0.50654	CU M/MI	-163.9015152	CU M
SP3	Day 3	08.30.2004	10.3	0.01354	CU M/MI	-164.469697	CU M
SP3	Day 3	08.30.2004	10.35	0.01346	CU M/MI	-164.3939394	CU M
SP3	Day 3	08.30.2004	10.4	0.01334	CU M/MI	-164.3181818	CU M
SP3	Day 3	08.30.2004	10.45	0.01356	CU M/MI	-164.2424242	CU M
SP3	Day 3	08.30.2004	10.5	0.01331	CU M/MI	-164.2045455	CU M
SP3	Day 3	08.30.2004	10.55	0.01352	CU M/MI	-164.1287879	CU M
SP3	Day 3	08.30.2004	11	0.01314	CU M/MI	-164.0530303	CU M
SP3	Day 3	08.30.2004	11.05	0.01298	CU M/MI	-163.9772727	CU M
SP3	Day 3	08.30.2004	11.1	0.59853	CU M/MI	-163.8257576	CU M
SP3	Day 3	08.30.2004	11.15	0.01365	CU M/MI	-163.9015152	CU M
SP3	Day 3	08.30.2004	11.2	0.01403	CU M/MI	-163.8257576	CU M
SP3	Day 3	08.30.2004	11.25	0.0133	CU M/MI	-163.75	CU M
SP3	Day 3	08.30.2004	11.3	0.01329	CU M/MI	-163.6742424	CU M
SP3	Day 3	08.30.2004	11.35	0.0133	CU M/MI	-163.6363636	CU M
SP3	Day 3	08.30.2004	11.4	0.01323	CU M/MI	-163.5606061	CU M
SP3	Day 3	08.30.2004	11.45	0.01345	CU M/MI	-163.4848485	CU M
SP3	Day 3	08.30.2004	11.5	0.01319	CU M/MI	-163.4090909	CU M
SP3	Day 3	08.30.2004	11.55	0.01275	CU M/MI	-163.3712121	CU M
SP3	Day 3	08.30.2004	12	0.5113	CU M/MI	-162.3863636	CU M

Appendix B
Raw Flow from Accommodations (SP-3)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3	Day 3	08.30.2004	12.05	0.01345	CU M/MI	-161.5909091	CU M
SP3	Day 3	08.30.2004	12.1	0.01335	CU M/MI	-161.5530303	CU M
SP3	Day 3	08.30.2004	12.15	0.01331	CU M/MI	-161.4772727	CU M
SP3	Day 3	08.30.2004	12.2	0.01318	CU M/MI	-161.4015152	CU M
SP3	Day 3	08.30.2004	12.25	0.01317	CU M/MI	-161.3257576	CU M
SP3	Day 3	08.30.2004	12.3	0.01329	CU M/MI	-161.25	CU M
SP3	Day 3	08.30.2004	12.35	0.01316	CU M/MI	-161.2121212	CU M
SP3	Day 3	08.30.2004	12.4	0.0131	CU M/MI	-161.1363636	CU M
SP3	Day 3	08.30.2004	12.45	0.01314	CU M/MI	-161.0606061	CU M
SP3	Day 3	08.30.2004	12.5	0.01304	CU M/MI	-161.0227273	CU M
SP3	Day 3	08.30.2004	12.55	0.01277	CU M/MI	-160.9469697	CU M
SP3	Day 3	08.30.2004	13	0.01331	CU M/MI	-159.280303	CU M
SP3	Day 3	08.30.2004	13.05	0.01315	CU M/MI	-159.2045455	CU M
SP3	Day 3	08.30.2004	13.1	0.01347	CU M/MI	-159.1666667	CU M
SP3	Day 3	08.30.2004	13.15	0.01332	CU M/MI	-159.0909091	CU M
SP3	Day 3	08.30.2004	13.2	0.01311	CU M/MI	-159.0151515	CU M
SP3	Day 3	08.30.2004	13.25	0.01316	CU M/MI	-158.9393939	CU M
SP3	Day 3	08.30.2004	13.3	0.01333	CU M/MI	-158.9015152	CU M
SP3	Day 3	08.30.2004	13.35	0.01315	CU M/MI	-158.8257576	CU M
SP3	Day 3	08.30.2004	13.4	0.01306	CU M/MI	-158.75	CU M
SP3	Day 3	08.30.2004	13.45	0.01275	CU M/MI	-158.6742424	CU M
SP3	Day 3	08.30.2004	13.5	0.01316	CU M/MI	-158.6363636	CU M
SP3	Day 3	08.30.2004	13.55	0.01276	CU M/MI	-158.5606061	CU M
SP3	Day 3	08.30.2004	14	0.01285	CU M/MI	-158.4848485	CU M
SP3	Day 3	08.30.2004	14.05	0.01291	CU M/MI	-158.4469697	CU M
SP3	Day 3	08.30.2004	14.1	0.01297	CU M/MI	-158.3712121	CU M
SP3	Day 3	08.30.2004	14.15	0.01265	CU M/MI	-158.2954545	CU M
SP3	Day 3	08.30.2004	14.2	0.01244	CU M/MI	-158.2575758	CU M
SP3	Day 3	08.30.2004	14.25	0.01265	CU M/MI	-158.1818182	CU M
SP3	Day 3	08.30.2004	14.3	0.01275	CU M/MI	-158.1060606	CU M
SP3	Day 3	08.30.2004	14.35	0.01231	CU M/MI	-158.0681818	CU M
SP3	Day 3	08.30.2004	14.4	0.01259	CU M/MI	-157.9924242	CU M
SP3	Day 3	08.30.2004	14.45	0.01242	CU M/MI	-157.9166667	CU M
SP3	Day 3	08.30.2004	14.5	0.51977	CU M/MI	-157.5757576	CU M
SP3	Day 3	08.30.2004	14.55	0.01302	CU M/MI	-156.25	CU M
SP3	Day 3	08.30.2004	15	0.01321	CU M/MI	-156.1742424	CU M
SP3	Day 3	08.30.2004	15.05	0.01304	CU M/MI	-156.1363636	CU M
SP3	Day 3	08.30.2004	15.1	0.01305	CU M/MI	-156.0606061	CU M
SP3	Day 3	08.30.2004	15.15	0.01324	CU M/MI	-155.9848485	CU M
SP3	Day 3	08.30.2004	15.2	0.01292	CU M/MI	-155.9469697	CU M
SP3	Day 3	08.30.2004	15.25	0.01293	CU M/MI	-155.8712121	CU M
SP3	Day 3	08.30.2004	15.3	0.0128	CU M/MI	-155.7954545	CU M
SP3	Day 3	08.30.2004	15.35	0.0129	CU M/MI	-155.719697	CU M
SP3	Day 3	08.30.2004	15.4	0.01226	CU M/MI	-155.6818182	CU M
SP3	Day 3	08.30.2004	15.45	0.01286	CU M/MI	-155.6060606	CU M
SP3	Day 3	08.30.2004	15.5	0.01266	CU M/MI	-155.530303	CU M
SP3	Day 3	08.30.2004	15.55	0.01271	CU M/MI	-155.4924242	CU M
SP3	Day 3	08.30.2004	16	0.01301	CU M/MI	-155.4166667	CU M
SP3	Day 3	08.30.2004	16.05	0.01241	CU M/MI	-155.3409091	CU M
SP3	Day 3	08.30.2004	16.1	0.01277	CU M/MI	-155.3030303	CU M
SP3	Day 3	08.30.2004	16.15	0.01245	CU M/MI	-155.2272727	CU M
SP3	Day 3	08.30.2004	16.2	0.01253	CU M/MI	-155.1515152	CU M
SP3	Day 3	08.30.2004	16.25	0.01259	CU M/MI	-155.1136364	CU M

Appendix B
Raw Flow from Accommodations (SP-3)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3	Day 3	08.30.2004	16.3	0.01237	CU M/MI	-155.0378788	CU M
SP3	Day 3	08.30.2004	16.35	0.01225	CU M/MI	-154.9621212	CU M
SP3	Day 3	08.30.2004	16.4	0.01257	CU M/MI	-154.9242424	CU M
SP3	Day 3	08.30.2004	16.45	0.01104	CU M/MI	-154.8484848	CU M
SP3	Day 3	08.30.2004	16.5	0.01278	CU M/MI	-154.7727273	CU M
SP3	Day 3	08.30.2004	16.55	0.01339	CU M/MI	-155	CU M
SP3	Day 3	08.30.2004	17	0.01296	CU M/MI	-154.9242424	CU M
SP3	Day 3	08.30.2004	17.05	0.0131	CU M/MI	-154.8863636	CU M
SP3	Day 3	08.30.2004	17.1	0.01319	CU M/MI	-154.8106061	CU M
SP3	Day 3	08.30.2004	17.15	0.01299	CU M/MI	-154.7348485	CU M
SP3	Day 3	08.30.2004	17.2	0.01312	CU M/MI	-154.6590909	CU M
SP3	Day 3	08.30.2004	17.25	0.0126	CU M/MI	-154.6212121	CU M
SP3	Day 3	08.30.2004	17.3	0.01278	CU M/MI	-154.5454545	CU M
SP3	Day 3	08.30.2004	17.35	0.01291	CU M/MI	-154.469697	CU M
SP3	Day 3	08.30.2004	17.4	0.01242	CU M/MI	-154.4318182	CU M
SP3	Day 3	08.30.2004	17.45	0.01292	CU M/MI	-154.3560606	CU M
SP3	Day 3	08.30.2004	17.5	0.51897	CU M/MI	-153.9393939	CU M
SP3	Day 3	08.30.2004	17.55	0.01318	CU M/MI	-152.6136364	CU M
SP3	Day 3	08.30.2004	18	0.01342	CU M/MI	-152.5378788	CU M
SP3	Day 3	08.30.2004	18.05	0.01321	CU M/MI	-152.4621212	CU M
SP3	Day 3	08.30.2004	18.1	0.01322	CU M/MI	-152.3863636	CU M
SP3	Day 3	08.30.2004	18.15	0.01333	CU M/MI	-152.3484848	CU M
SP3	Day 3	08.30.2004	18.2	0.0137	CU M/MI	-152.2727273	CU M
SP3	Day 3	08.30.2004	18.25	0.01315	CU M/MI	-152.1969697	CU M
SP3	Day 3	08.30.2004	18.3	0.01291	CU M/MI	-152.1212121	CU M
SP3	Day 3	08.30.2004	18.35	0.01343	CU M/MI	-150.719697	CU M
SP3	Day 3	08.30.2004	18.4	0.01355	CU M/MI	-150.6439394	CU M
SP3	Day 3	08.30.2004	18.45	0.01358	CU M/MI	-150.5681818	CU M
SP3	Day 3	08.30.2004	18.5	0.0134	CU M/MI	-150.4924242	CU M
SP3	Day 3	08.30.2004	18.55	0.01328	CU M/MI	-150.4545455	CU M
SP3	Day 3	08.30.2004	19	0.0134	CU M/MI	-150.3787879	CU M
SP3	Day 3	08.30.2004	19.05	0.01335	CU M/MI	-150.3030303	CU M
SP3	Day 3	08.30.2004	19.1	0.01318	CU M/MI	-150.2272727	CU M
SP3	Day 3	08.30.2004	19.15	0.013	CU M/MI	-150.1893939	CU M
SP3	Day 3	08.30.2004	19.2	0.01335	CU M/MI	-150.1136364	CU M
SP3	Day 3	08.30.2004	19.4	0.01333	CU M/MI	-148.1060606	CU M
SP3	Day 3	08.30.2004	19.45	0.01297	CU M/MI	-148.030303	CU M
SP3	Day 3	08.30.2004	19.5	0.01322	CU M/MI	-147.9924242	CU M
SP3	Day 3	08.30.2004	19.55	0.01346	CU M/MI	-147.9166667	CU M
SP3	Day 3	08.30.2004	20	0.01328	CU M/MI	-147.8409091	CU M
SP3	Day 3	08.30.2004	20.05	0.01312	CU M/MI	-147.7651515	CU M
SP3	Day 3	08.30.2004	20.1	0.01301	CU M/MI	-147.7272727	CU M
SP3	Day 3	08.30.2004	20.15	0.01302	CU M/MI	-147.6515152	CU M
SP3	Day 3	08.30.2004	20.2	0.01274	CU M/MI	-147.5757576	CU M
SP3	Day 3	08.30.2004	20.25	0.01295	CU M/MI	-147.5	CU M
SP3	Day 3	08.30.2004	20.3	0.01284	CU M/MI	-147.4621212	CU M
SP3	Day 3	08.30.2004	20.35	0.01271	CU M/MI	-147.3863636	CU M
SP3	Day 3	08.30.2004	20.4	0.01246	CU M/MI	-147.3106061	CU M
SP3	Day 3	08.30.2004	20.45	0.0127	CU M/MI	-147.2727273	CU M
SP3	Day 3	08.30.2004	20.5	0.01259	CU M/MI	-147.1969697	CU M
SP3	Day 3	08.30.2004	20.55	0.01287	CU M/MI	-147.1212121	CU M
SP3	Day 3	08.30.2004	21	0	CU M/MI	-147.3106061	CU M
SP3	Day 3	08.30.2004	21.05	0.01305	CU M/MI	-147.0075758	CU M

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Raw Flow from Accommodations (SP-3)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3	Day 3	08.30.2004	21.1	0.01302	CU M/MI	-146.969697	CU M
SP3	Day 3	08.30.2004	21.15	0.01332	CU M/MI	-146.8939394	CU M
SP3	Day 3	08.30.2004	21.2	0.01299	CU M/MI	-146.8181818	CU M
SP3	Day 3	08.30.2004	21.25	0.01324	CU M/MI	-146.7424242	CU M
SP3	Day 3	08.30.2004	21.3	0.01306	CU M/MI	-146.7045455	CU M
SP3	Day 3	08.30.2004	21.35	0.01286	CU M/MI	-146.6287879	CU M
SP3	Day 3	08.30.2004	21.4	0.01306	CU M/MI	-146.5530303	CU M
SP3	Day 3	08.30.2004	21.45	0.01292	CU M/MI	-146.5151515	CU M
SP3	Day 3	08.30.2004	21.5	0.01258	CU M/MI	-146.4393939	CU M
SP3	Day 3	08.30.2004	21.55	0.01291	CU M/MI	-146.3636364	CU M
SP3	Day 3	08.30.2004	22	0.01058	CU M/MI	-146.3636364	CU M
SP3	Day 3	08.30.2004	22.05	0	CU M/MI	-146.2878788	CU M
SP3	Day 3	08.30.2004	22.1	0.01239	CU M/MI	-146.25	CU M
SP3	Day 3	08.30.2004	22.15	0.01191	CU M/MI	-146.1742424	CU M
SP3	Day 3	08.30.2004	22.2	0.5187	CU M/MI	-145.4545455	CU M
SP3	Day 3	08.30.2004	22.25	0.01319	CU M/MI	-144.3939394	CU M
SP3	Day 3	08.30.2004	22.3	0.01331	CU M/MI	-144.3560606	CU M
SP3	Day 3	08.30.2004	22.35	0.01312	CU M/MI	-144.280303	CU M
SP3	Day 3	08.30.2004	22.4	0.01348	CU M/MI	-144.2045455	CU M
SP3	Day 3	08.30.2004	22.45	0.01311	CU M/MI	-144.1287879	CU M
SP3	Day 3	08.30.2004	22.5	0.01317	CU M/MI	-144.0909091	CU M
SP3	Day 3	08.30.2004	22.55	0.01297	CU M/MI	-144.0151515	CU M
SP3	Day 3	08.30.2004	23	0.01289	CU M/MI	-143.9393939	CU M
SP3	Day 3	08.30.2004	23.05	0.01267	CU M/MI	-143.8636364	CU M
SP3	Day 3	08.30.2004	23.1	0.01282	CU M/MI	-143.8257576	CU M
SP3	Day 3	08.30.2004	23.15	0.01283	CU M/MI	-143.75	CU M
SP3	Day 3	08.30.2004	23.2	0.01259	CU M/MI	-143.6742424	CU M
SP3	Day 3	08.30.2004	23.25	0	CU M/MI	-143.6363636	CU M
SP3	Day 3	08.30.2004	23.3	0.01285	CU M/MI	-143.5984848	CU M
SP3	Day 3	08.30.2004	23.35	0.01313	CU M/MI	-143.5227273	CU M
SP3	Day 3	08.30.2004	23.4	0.01263	CU M/MI	-143.4469697	CU M
SP3	Day 3	08.30.2004	23.45	0.01264	CU M/MI	-143.4090909	CU M
SP3	Day 3	08.30.2004	23.5	0.0126	CU M/MI	-143.3333333	CU M
SP3	Day 3	08.30.2004	23.55	0.01281	CU M/MI	-143.3712121	CU M
SP3	Day 3	08.31.2004	0	0.01292	CU M/MI	-143.2954545	CU M
SP3	Day 3	08.31.2004	0.05	0.01414	CU M/MI	-141.6287879	CU M
SP3	Day 3	08.31.2004	0.1	0.01299	CU M/MI	-141.5909091	CU M
SP3	Day 3	08.31.2004	0.15	0.01312	CU M/MI	-141.5151515	CU M
SP3	Day 3	08.31.2004	0.2	0.01369	CU M/MI	-141.4393939	CU M
SP3	Day 3	08.31.2004	0.25	0.01313	CU M/MI	-141.3636364	CU M
SP3	Day 3	08.31.2004	0.3	0.01306	CU M/MI	-141.3257576	CU M
SP3	Day 3	08.31.2004	0.35	0.01309	CU M/MI	-141.25	CU M
SP3	Day 3	08.31.2004	0.4	0.01306	CU M/MI	-141.1742424	CU M
SP3	Day 3	08.31.2004	0.45	0.01317	CU M/MI	-141.0984848	CU M
SP3	Day 3	08.31.2004	0.5	0.01302	CU M/MI	-141.0606061	CU M
SP3	Day 3	08.31.2004	0.55	0.01269	CU M/MI	-140.9848485	CU M
SP3	Day 3	08.31.2004	1	0.01264	CU M/MI	-140.9090909	CU M
SP3	Day 3	08.31.2004	1.05	0.0131	CU M/MI	-140.8712121	CU M
SP3	Day 3	08.31.2004	1.1	0.01284	CU M/MI	-140.7954545	CU M
SP3	Day 3	08.31.2004	1.15	0.01289	CU M/MI	-140.719697	CU M
SP3	Day 3	08.31.2004	1.2	0.01282	CU M/MI	-140.6818182	CU M
SP3	Day 3	08.31.2004	1.25	0.01258	CU M/MI	-140.6060606	CU M
SP3	Day 3	08.31.2004	1.3	0.01262	CU M/MI	-140.530303	CU M

Appendix B
Raw Flow from Accommodations (SP-3)
23 August Through 3 September 2004

Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3	Day 3	08.31.2004	1.35	0.01265	CU M/MI	-140.4545455	CU M
SP3	Day 3	08.31.2004	1.4	0.01276	CU M/MI	-140.4166667	CU M
SP3	Day 3	08.31.2004	1.45	0.01252	CU M/MI	-140.3409091	CU M
SP3	Day 3	08.31.2004	1.5	0.01265	CU M/MI	-140.2651515	CU M
SP3	Day 3	08.31.2004	1.55	0.01145	CU M/MI	-140.3787879	CU M
SP3	Day 3	08.31.2004	2	0	CU M/MI	-140.3787879	CU M
SP3	Day 3	08.31.2004	2.05	0	CU M/MI	-140.6818182	CU M
SP3	Day 3	08.31.2004	2.1	0	CU M/MI	-140.9469697	CU M
SP3	Day 3	08.31.2004	2.15	0	CU M/MI	-141.25	CU M
SP3	Day 3	08.31.2004	2.2	0	CU M/MI	-141.4772727	CU M
SP3	Day 3	08.31.2004	2.25	0	CU M/MI	-141.5909091	CU M
SP3	Day 3	08.31.2004	2.3	0.01224	CU M/MI	-141.5530303	CU M
SP3	Day 3	08.31.2004	2.35	0.01208	CU M/MI	-141.4772727	CU M
SP3	Day 3	08.31.2004	2.4	0	CU M/MI	-141.6287879	CU M
SP3	Day 3	08.31.2004	2.45	0	CU M/MI	-141.8939394	CU M
SP3	Day 3	08.31.2004	2.5	0	CU M/MI	-142.0454545	CU M
SP3	Day 3	08.31.2004	2.55	0	CU M/MI	-142.3484848	CU M
SP3	Day 3	08.31.2004	3	0	CU M/MI	-142.6136364	CU M
SP3	Day 3	08.31.2004	3.05	0	CU M/MI	-142.8409091	CU M
SP3	Day 3	08.31.2004	3.1	0.0121	CU M/MI	-142.9545455	CU M
SP3	Day 3	08.31.2004	3.15	0.012	CU M/MI	-142.8787879	CU M
SP3	Day 3	08.31.2004	3.2	0	CU M/MI	-142.8409091	CU M
SP3	Day 3	08.31.2004	3.25	0	CU M/MI	-143.1818182	CU M
SP3	Day 3	08.31.2004	3.3	0	CU M/MI	-143.5227273	CU M
SP3	Day 3	08.31.2004	3.35	0	CU M/MI	-143.6363636	CU M
SP3	Day 3	08.31.2004	3.4	0	CU M/MI	-143.9393939	CU M
SP3	Day 3	08.31.2004	3.45	0	CU M/MI	-144.2424242	CU M
SP3	Day 3	08.31.2004	3.5	0	CU M/MI	-144.5075758	CU M
SP3	Day 3	08.31.2004	3.55	0.01141	CU M/MI	-144.7348485	CU M
SP3	Day 3	08.31.2004	4	0.00379	CU M/MI	-144.9242424	CU M
SP3	Day 3	08.31.2004	4.05	0.01221	CU M/MI	-144.8484848	CU M
SP3	Day 3	08.31.2004	4.1	0.01193	CU M/MI	-144.7727273	CU M
SP3	Day 3	08.31.2004	4.15	0	CU M/MI	-144.8484848	CU M
SP3	Day 3	08.31.2004	4.2	0	CU M/MI	-145.1515152	CU M
SP3	Day 3	08.31.2004	4.25	0	CU M/MI	-145.4166667	CU M
SP3	Day 3	08.31.2004	4.3	0	CU M/MI	-145.719697	CU M
SP3	Day 3	08.31.2004	4.35	0	CU M/MI	-146.0606061	CU M
SP3	Day 3	08.31.2004	4.4	0.01206	CU M/MI	-146.25	CU M
SP3	Day 3	08.31.2004	4.45	0.01222	CU M/MI	-146.1742424	CU M
SP3	Day 3	08.31.2004	4.5	0	CU M/MI	-146.3257576	CU M
SP3	Day 3	08.31.2004	4.55	0	CU M/MI	-146.5909091	CU M
SP3	Day 3	08.31.2004	5	0	CU M/MI	-146.8939394	CU M
SP3	Day 3	08.31.2004	5.05	0	CU M/MI	-147.1969697	CU M
SP3	Day 3	08.31.2004	5.1	0	CU M/MI	-147.5	CU M
SP3	Day 3	08.31.2004	5.15	0	CU M/MI	-147.8030303	CU M
SP3	Day 3	08.31.2004	5.2	0	CU M/MI	-148.1060606	CU M
SP3	Day 3	08.31.2004	5.25	0	CU M/MI	-148.3712121	CU M
SP3	Day 3	08.31.2004	5.3	0	CU M/MI	-148.6363636	CU M
SP3	Day 3	08.31.2004	5.35	0	CU M/MI	-148.9772727	CU M
SP3	Day 3	08.31.2004	5.4	0	CU M/MI	-149.280303	CU M
SP3	Day 3	08.31.2004	5.45	0	CU M/MI	-149.6212121	CU M
SP3	Day 3	08.31.2004	5.5	0.0126	CU M/MI	-148.8257576	CU M
SP3	Day 3	08.31.2004	5.55	0.01261	CU M/MI	-148.75	CU M

Appendix B
Raw Flow from Accommodations (SP-3)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3	Day 4	08.31.2004	6	0.01272	CU M/MI	-148.7121212	CU M
SP3	Day 4	08.31.2004	6.05	0.01292	CU M/MI	-148.6363636	CU M
SP3	Day 4	08.31.2004	6.1	0.01253	CU M/MI	-148.5606061	CU M
SP3	Day 4	08.31.2004	6.15	0.0128	CU M/MI	-149.0151515	CU M
SP3	Day 4	08.31.2004	6.2	0.01341	CU M/MI	-148.9393939	CU M
SP3	Day 4	08.31.2004	6.25	0.01306	CU M/MI	-148.9015152	CU M
SP3	Day 4	08.31.2004	6.3	0.01323	CU M/MI	-148.8257576	CU M
SP3	Day 4	08.31.2004	6.35	0.01336	CU M/MI	-148.75	CU M
SP3	Day 4	08.31.2004	6.4	0.01328	CU M/MI	-148.6742424	CU M
SP3	Day 4	08.31.2004	6.45	0.01311	CU M/MI	-148.6363636	CU M
SP3	Day 4	08.31.2004	6.5	0.53011	CU M/MI	-150.1893939	CU M
SP3	Day 4	08.31.2004	6.55	0.01336	CU M/MI	-148.9393939	CU M
SP3	Day 4	08.31.2004	7	0.01362	CU M/MI	-148.8636364	CU M
SP3	Day 4	08.31.2004	7.05	0.01362	CU M/MI	-148.7878788	CU M
SP3	Day 4	08.31.2004	7.1	0.01285	CU M/MI	-148.7878788	CU M
SP3	Day 4	08.31.2004	7.15	0.01335	CU M/MI	-148.7121212	CU M
SP3	Day 4	08.31.2004	7.2	0.01327	CU M/MI	-148.6742424	CU M
SP3	Day 4	08.31.2004	7.25	0	CU M/MI	-154.280303	CU M
SP3	Day 4	08.31.2004	7.3	0.01342	CU M/MI	-157.5757576	CU M
SP3	Day 4	08.31.2004	7.35	0.01342	CU M/MI	-157.5	CU M
SP3	Day 4	08.31.2004	7.4	0.01327	CU M/MI	-157.4242424	CU M
SP3	Day 4	08.31.2004	7.45	0.01366	CU M/MI	-157.3484848	CU M
SP3	Day 4	08.31.2004	7.5	0.01354	CU M/MI	-157.3106061	CU M
SP3	Day 4	08.31.2004	7.55	0.01355	CU M/MI	-157.2348485	CU M
SP3	Day 4	08.31.2004	8	0.0135	CU M/MI	-157.1590909	CU M
SP3	Day 4	08.31.2004	8.05	0.0133	CU M/MI	-157.0833333	CU M
SP3	Day 4	08.31.2004	8.1	0	CU M/MI	-165.4545455	CU M
SP3	Day 4	08.31.2004	8.15	0.01331	CU M/MI	-168.7121212	CU M
SP3	Day 4	08.31.2004	8.2	0.01345	CU M/MI	-168.6363636	CU M
SP3	Day 4	08.31.2004	8.25	0.01358	CU M/MI	-168.5606061	CU M
SP3	Day 4	08.31.2004	8.3	0.01336	CU M/MI	-168.4848485	CU M
SP3	Day 4	08.31.2004	8.35	0.0132	CU M/MI	-168.4469697	CU M
SP3	Day 4	08.31.2004	8.4	0.01341	CU M/MI	-168.3712121	CU M
SP3	Day 4	08.31.2004	8.45	0.01321	CU M/MI	-168.2954545	CU M
SP3	Day 4	08.31.2004	8.5	0.01334	CU M/MI	-168.219697	CU M
SP3	Day 4	08.31.2004	8.55	0.58028	CU M/MI	-168.1818182	CU M
SP3	Day 4	08.31.2004	9	0.01366	CU M/MI	-168.0681818	CU M
SP3	Day 4	08.31.2004	9.05	0.01369	CU M/MI	-167.9924242	CU M
SP3	Day 4	08.31.2004	9.1	0.01364	CU M/MI	-167.9545455	CU M
SP3	Day 4	08.31.2004	9.15	0.01325	CU M/MI	-167.8787879	CU M
SP3	Day 4	08.31.2004	9.2	0.01325	CU M/MI	-167.8030303	CU M
SP3	Day 4	08.31.2004	9.25	0.01342	CU M/MI	-167.7272727	CU M
SP3	Day 4	08.31.2004	9.3	0.01348	CU M/MI	-167.6893939	CU M
SP3	Day 4	08.31.2004	9.35	0.01314	CU M/MI	-167.6136364	CU M
SP3	Day 4	08.31.2004	9.4	0.50532	CU M/MI	-166.6666667	CU M
SP3	Day 4	08.31.2004	9.45	0.01357	CU M/MI	-167.7651515	CU M
SP3	Day 4	08.31.2004	9.5	0.01367	CU M/MI	-167.6893939	CU M
SP3	Day 4	08.31.2004	9.55	0.01376	CU M/MI	-167.6136364	CU M
SP3	Day 4	08.31.2004	10	0.0133	CU M/MI	-167.5757576	CU M
SP3	Day 4	08.31.2004	10.05	0.01348	CU M/MI	-167.5	CU M
SP3	Day 4	08.31.2004	10.1	0.01375	CU M/MI	-167.4242424	CU M
SP3	Day 4	08.31.2004	10.15	0.01357	CU M/MI	-167.3484848	CU M
SP3	Day 4	08.31.2004	10.2	0.0134	CU M/MI	-167.2727273	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3	Day 4	08.31.2004	10.25	0.01292	CU M/MI	-167.2348485	CU M
SP3	Day 4	08.31.2004	10.3	0.01309	CU M/MI	-167.1590909	CU M
SP3	Day 4	08.31.2004	10.35	0.01338	CU M/MI	-167.0833333	CU M
SP3	Day 4	08.31.2004	10.4	0.01255	CU M/MI	-167.0075758	CU M
SP3	Day 4	08.31.2004	10.45	0.0132	CU M/MI	-166.969697	CU M
SP3	Day 4	08.31.2004	10.5	0.01309	CU M/MI	-166.8939394	CU M
SP3	Day 4	08.31.2004	10.55	0.01291	CU M/MI	-166.8181818	CU M
SP3	Day 4	08.31.2004	11	0.01343	CU M/MI	-166.780303	CU M
SP3	Day 4	08.31.2004	11.05	0.01303	CU M/MI	-166.7045455	CU M
SP3	Day 4	08.31.2004	11.1	0.01275	CU M/MI	-166.7045455	CU M
SP3	Day 4	08.31.2004	11.15	0.5913	CU M/MI	-169.1666667	CU M
SP3	Day 4	08.31.2004	11.2	0.01323	CU M/MI	-168.5984848	CU M
SP3	Day 4	08.31.2004	11.25	0.01364	CU M/MI	-168.5227273	CU M
SP3	Day 4	08.31.2004	11.3	0.01323	CU M/MI	-168.4469697	CU M
SP3	Day 4	08.31.2004	11.35	0.01348	CU M/MI	-168.3712121	CU M
SP3	Day 4	08.31.2004	11.4	0.01332	CU M/MI	-168.3333333	CU M
SP3	Day 4	08.31.2004	11.45	0.01338	CU M/MI	-168.2575758	CU M
SP3	Day 4	08.31.2004	11.5	0.0133	CU M/MI	-168.1818182	CU M
SP3	Day 4	08.31.2004	11.55	0.01317	CU M/MI	-168.1060606	CU M
SP3	Day 4	08.31.2004	12	0.01319	CU M/MI	-168.0681818	CU M
SP3	Day 4	08.31.2004	12.05	0.01278	CU M/MI	-167.9924242	CU M
SP3	Day 4	08.31.2004	12.1	0.01297	CU M/MI	-167.9166667	CU M
SP3	Day 4	08.31.2004	12.15	0.01292	CU M/MI	-167.8409091	CU M
SP3	Day 4	08.31.2004	12.2	0.01264	CU M/MI	-167.8030303	CU M
SP3	Day 4	08.31.2004	12.25	0.01299	CU M/MI	-167.7272727	CU M
SP3	Day 4	08.31.2004	12.3	0.01282	CU M/MI	-167.6515152	CU M
SP3	Day 4	08.31.2004	12.35	0.01277	CU M/MI	-167.6136364	CU M
SP3	Day 4	08.31.2004	12.4	0.0131	CU M/MI	-167.5378788	CU M
SP3	Day 4	08.31.2004	12.45	0.01285	CU M/MI	-167.4621212	CU M
SP3	Day 4	08.31.2004	12.5	0.01269	CU M/MI	-167.4242424	CU M
SP3	Day 4	08.31.2004	12.55	0.01268	CU M/MI	-167.4621212	CU M
SP3	Day 4	08.31.2004	13	0.01285	CU M/MI	-167.3863636	CU M
SP3	Day 4	08.31.2004	13.05	0.01259	CU M/MI	-167.3106061	CU M
SP3	Day 4	08.31.2004	13.1	0.01294	CU M/MI	-167.2727273	CU M
SP3	Day 4	08.31.2004	13.15	0.01321	CU M/MI	-167.1969697	CU M
SP3	Day 4	08.31.2004	13.2	0.01283	CU M/MI	-167.1212121	CU M
SP3	Day 4	08.31.2004	13.25	0	CU M/MI	-167.1212121	CU M
SP3	Day 4	08.31.2004	13.3	0.01264	CU M/MI	-167.0833333	CU M
SP3	Day 4	08.31.2004	13.35	0.01254	CU M/MI	-167.0075758	CU M
SP3	Day 4	08.31.2004	13.4	0.00918	CU M/MI	-167.0833333	CU M
SP3	Day 4	08.31.2004	13.45	0.01247	CU M/MI	-167.0075758	CU M
SP3	Day 4	08.31.2004	13.5	0.0126	CU M/MI	-166.969697	CU M
SP3	Day 4	08.31.2004	13.55	0.01262	CU M/MI	-166.8939394	CU M
SP3	Day 4	08.31.2004	14	0.01275	CU M/MI	-166.8181818	CU M
SP3	Day 4	08.31.2004	14.05	0.0129	CU M/MI	-166.780303	CU M
SP3	Day 4	08.31.2004	14.1	0	CU M/MI	-166.780303	CU M
SP3	Day 4	08.31.2004	14.15	0.01225	CU M/MI	-166.8181818	CU M
SP3	Day 4	08.31.2004	14.2	0.01213	CU M/MI	-166.8560606	CU M
SP3	Day 4	08.31.2004	14.25	0.0128	CU M/MI	-166.8181818	CU M
SP3	Day 4	08.31.2004	14.3	0.01278	CU M/MI	-166.7424242	CU M
SP3	Day 4	08.31.2004	14.35	0.51008	CU M/MI	-165.8712121	CU M
SP3	Day 4	08.31.2004	14.4	0.01341	CU M/MI	-165.0757576	CU M
SP3	Day 4	08.31.2004	14.45	0.01406	CU M/MI	-165	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3	Day 4	08.31.2004	14.5	0.0136	CU M/MI	-164.9242424	CU M
SP3	Day 4	08.31.2004	14.55	0.0134	CU M/MI	-164.8484848	CU M
SP3	Day 4	08.31.2004	15	0.01316	CU M/MI	-164.8106061	CU M
SP3	Day 4	08.31.2004	15.05	0.01341	CU M/MI	-164.7348485	CU M
SP3	Day 4	08.31.2004	15.1	0.01356	CU M/MI	-164.6590909	CU M
SP3	Day 4	08.31.2004	15.15	0.01334	CU M/MI	-164.5833333	CU M
SP3	Day 4	08.31.2004	15.2	0.01325	CU M/MI	-164.5454545	CU M
SP3	Day 4	08.31.2004	15.25	0.01351	CU M/MI	-164.469697	CU M
SP3	Day 4	08.31.2004	15.3	0.01325	CU M/MI	-164.3939394	CU M
SP3	Day 4	08.31.2004	15.35	0.01354	CU M/MI	-164.3181818	CU M
SP3	Day 4	08.31.2004	15.4	0.01318	CU M/MI	-164.280303	CU M
SP3	Day 4	08.31.2004	15.45	0.01301	CU M/MI	-164.2045455	CU M
SP3	Day 4	08.31.2004	15.5	0.01285	CU M/MI	-164.1287879	CU M
SP3	Day 4	08.31.2004	15.55	0.01247	CU M/MI	-164.0530303	CU M
SP3	Day 4	08.31.2004	16	0	CU M/MI	-166.3636364	CU M
SP3	Day 4	08.31.2004	16.05	0.01312	CU M/MI	-171.2121212	CU M
SP3	Day 4	08.31.2004	16.1	0.01332	CU M/MI	-171.1363636	CU M
SP3	Day 4	08.31.2004	16.15	0.01322	CU M/MI	-171.0606061	CU M
SP3	Day 4	08.31.2004	16.2	0.01382	CU M/MI	-170.9848485	CU M
SP3	Day 4	08.31.2004	16.25	0.01365	CU M/MI	-170.9469697	CU M
SP3	Day 4	08.31.2004	16.3	0.01326	CU M/MI	-170.8712121	CU M
SP3	Day 4	08.31.2004	16.35	0.01339	CU M/MI	-170.7954545	CU M
SP3	Day 4	08.31.2004	16.4	0.01311	CU M/MI	-170.719697	CU M
SP3	Day 4	08.31.2004	16.45	0.01337	CU M/MI	-170.6439394	CU M
SP3	Day 4	08.31.2004	16.5	0	CU M/MI	-172.1212121	CU M
SP3	Day 4	08.31.2004	16.55	0.01334	CU M/MI	-177.5757576	CU M
SP3	Day 4	08.31.2004	17	0.01353	CU M/MI	-177.5378788	CU M
SP3	Day 4	08.31.2004	17.05	0.01363	CU M/MI	-177.4621212	CU M
SP3	Day 4	08.31.2004	17.1	0.01359	CU M/MI	-177.3863636	CU M
SP3	Day 4	08.31.2004	17.15	0.01369	CU M/MI	-177.3106061	CU M
SP3	Day 4	08.31.2004	17.2	0.01333	CU M/MI	-177.2348485	CU M
SP3	Day 4	08.31.2004	17.25	0.01364	CU M/MI	-184.9242424	CU M
SP3	Day 4	08.31.2004	17.3	0.01346	CU M/MI	-184.8484848	CU M
SP3	Day 4	08.31.2004	17.35	0.01357	CU M/MI	-184.7727273	CU M
SP3	Day 4	08.31.2004	17.4	0.01408	CU M/MI	-184.7348485	CU M
SP3	Day 4	08.31.2004	17.45	0.01364	CU M/MI	-184.6590909	CU M
SP3	Day 4	08.31.2004	17.5	0.01343	CU M/MI	-184.5833333	CU M
SP3	Day 4	08.31.2004	17.55	0.01362	CU M/MI	-184.5075758	CU M
SP3	Day 4	08.31.2004	18	0.01357	CU M/MI	-184.4318182	CU M
SP3	Day 4	08.31.2004	18.05	0.50438	CU M/MI	-188.9772727	CU M
SP3	Day 4	08.31.2004	18.1	0.01393	CU M/MI	-190.6818182	CU M
SP3	Day 4	08.31.2004	18.15	0.01369	CU M/MI	-190.6439394	CU M
SP3	Day 4	08.31.2004	18.2	0.01405	CU M/MI	-190.5681818	CU M
SP3	Day 4	08.31.2004	18.25	0.01363	CU M/MI	-190.4924242	CU M
SP3	Day 4	08.31.2004	18.3	0.01345	CU M/MI	-190.4166667	CU M
SP3	Day 4	08.31.2004	18.35	0.01349	CU M/MI	-190.3409091	CU M
SP3	Day 4	08.31.2004	18.4	0.01004	CU M/MI	-188.6363636	CU M
SP3	Day 4	08.31.2004	18.45	0.01447	CU M/MI	-188.5606061	CU M
SP3	Day 4	08.31.2004	18.5	0.0139	CU M/MI	-188.4848485	CU M
SP3	Day 4	08.31.2004	18.55	0.01383	CU M/MI	-188.4090909	CU M
SP3	Day 4	08.31.2004	19	0.01368	CU M/MI	-188.3712121	CU M
SP3	Day 4	08.31.2004	19.05	0.01383	CU M/MI	-188.2954545	CU M
SP3	Day 4	08.31.2004	19.1	0.01344	CU M/MI	-188.219697	CU M

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Raw Flow from Accommodations (SP-3)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3	Day 4	08.31.2004	19.15	0.01376	CU M/MI	-188.1439394	CU M
SP3	Day 4	08.31.2004	19.2	0.01372	CU M/MI	-188.0681818	CU M
SP3	Day 4	08.31.2004	19.25	0.01338	CU M/MI	-188.030303	CU M
SP3	Day 4	08.31.2004	19.3	0.01358	CU M/MI	-187.9545455	CU M
SP3	Day 4	08.31.2004	19.35	0.01341	CU M/MI	-187.8787879	CU M
SP3	Day 4	08.31.2004	19.55	0.01362	CU M/MI	-187.6136364	CU M
SP3	Day 4	08.31.2004	20	0.01378	CU M/MI	-187.5378788	CU M
SP3	Day 4	08.31.2004	20.05	0.01329	CU M/MI	-187.5	CU M
SP3	Day 4	08.31.2004	20.1	0.0133	CU M/MI	-187.4242424	CU M
SP3	Day 4	08.31.2004	20.15	0.01324	CU M/MI	-187.3484848	CU M
SP3	Day 4	08.31.2004	20.2	0.01336	CU M/MI	-187.2727273	CU M
SP3	Day 4	08.31.2004	20.25	0.01345	CU M/MI	-187.2348485	CU M
SP3	Day 4	08.31.2004	20.3	0.01345	CU M/MI	-187.1590909	CU M
SP3	Day 4	08.31.2004	20.35	0.01332	CU M/MI	-187.0833333	CU M
SP3	Day 4	08.31.2004	20.4	0.0133	CU M/MI	-187.0075758	CU M
SP3	Day 4	08.31.2004	20.45	0.01297	CU M/MI	-186.969697	CU M
SP3	Day 4	08.31.2004	20.5	0.0132	CU M/MI	-186.8939394	CU M
SP3	Day 4	08.31.2004	20.55	0.01339	CU M/MI	-186.8181818	CU M
SP3	Day 4	08.31.2004	21	0.01281	CU M/MI	-186.780303	CU M
SP3	Day 4	08.31.2004	21.05	0.01298	CU M/MI	-186.7045455	CU M
SP3	Day 4	08.31.2004	21.1	0.01275	CU M/MI	-186.6666667	CU M
SP3	Day 4	08.31.2004	21.15	0.01277	CU M/MI	-186.5909091	CU M
SP3	Day 4	08.31.2004	21.2	0.60138	CU M/MI	-186.1742424	CU M
SP3	Day 4	08.31.2004	21.25	0.01308	CU M/MI	-190.2272727	CU M
SP3	Day 4	08.31.2004	21.3	0.01296	CU M/MI	-190.1515152	CU M
SP3	Day 4	08.31.2004	21.35	0.01312	CU M/MI	-190.0757576	CU M
SP3	Day 4	08.31.2004	21.4	0.0133	CU M/MI	-190.0378788	CU M
SP3	Day 4	08.31.2004	21.45	0.01349	CU M/MI	-189.9621212	CU M
SP3	Day 4	08.31.2004	21.5	0.01333	CU M/MI	-189.8863636	CU M
SP3	Day 4	08.31.2004	21.55	0.01295	CU M/MI	-189.8106061	CU M
SP3	Day 4	08.31.2004	22	0.01326	CU M/MI	-189.7727273	CU M
SP3	Day 4	08.31.2004	22.05	0.01287	CU M/MI	-189.6969697	CU M
SP3	Day 4	08.31.2004	22.1	0.01273	CU M/MI	-189.6590909	CU M
SP3	Day 4	08.31.2004	22.15	0.01265	CU M/MI	-189.6590909	CU M
SP3	Day 4	08.31.2004	22.2	0.0131	CU M/MI	-187.9166667	CU M
SP3	Day 4	08.31.2004	22.25	0.01331	CU M/MI	-187.8409091	CU M
SP3	Day 4	08.31.2004	22.3	0.01295	CU M/MI	-187.8030303	CU M
SP3	Day 4	08.31.2004	22.35	0.01323	CU M/MI	-187.7272727	CU M
SP3	Day 4	08.31.2004	22.4	0.01323	CU M/MI	-187.6515152	CU M
SP3	Day 4	08.31.2004	22.45	0.01335	CU M/MI	-187.5757576	CU M
SP3	Day 4	08.31.2004	22.5	0.01337	CU M/MI	-187.5	CU M
SP3	Day 4	08.31.2004	22.55	0.01337	CU M/MI	-187.4621212	CU M
SP3	Day 4	08.31.2004	23	0.01346	CU M/MI	-187.3863636	CU M
SP3	Day 4	08.31.2004	23.05	0.013	CU M/MI	-187.3106061	CU M
SP3	Day 4	08.31.2004	23.1	0.01316	CU M/MI	-187.2727273	CU M
SP3	Day 4	08.31.2004	23.15	0.01301	CU M/MI	-187.1969697	CU M
SP3	Day 4	08.31.2004	23.2	0.01266	CU M/MI	-187.1212121	CU M
SP3	Day 4	08.31.2004	23.25	0.01298	CU M/MI	-187.0454545	CU M
SP3	Day 4	08.31.2004	23.3	0	CU M/MI	-187.0075758	CU M
SP3	Day 4	08.31.2004	23.35	0.01257	CU M/MI	-186.969697	CU M
SP3	Day 4	08.31.2004	23.4	0.01383	CU M/MI	-185.3030303	CU M
SP3	Day 4	08.31.2004	23.45	0.0137	CU M/MI	-185.2651515	CU M
SP3	Day 4	08.31.2004	23.5	0.0133	CU M/MI	-185.1893939	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3	Day 4	08.31.2004	23.55	0.01322	CU M/MI	-185.1136364	CU M
SP3	Day 4	09.01.2004	0	0.01336	CU M/MI	-185.0378788	CU M
SP3	Day 4	09.01.2004	0.05	0.01328	CU M/MI	-185	CU M
SP3	Day 4	09.01.2004	0.1	0.01337	CU M/MI	-184.9242424	CU M
SP3	Day 4	09.01.2004	0.15	0.01337	CU M/MI	-184.8484848	CU M
SP3	Day 4	09.01.2004	0.2	0.01304	CU M/MI	-184.7727273	CU M
SP3	Day 4	09.01.2004	0.25	0.01316	CU M/MI	-184.7348485	CU M
SP3	Day 4	09.01.2004	0.3	0.01279	CU M/MI	-184.6590909	CU M
SP3	Day 4	09.01.2004	0.35	0.01276	CU M/MI	-184.5833333	CU M
SP3	Day 4	09.01.2004	0.4	0.00652	CU M/MI	-184.5454545	CU M
SP3	Day 4	09.01.2004	0.45	0.01282	CU M/MI	-184.469697	CU M
SP3	Day 4	09.01.2004	0.5	0.01254	CU M/MI	-184.4318182	CU M
SP3	Day 4	09.01.2004	0.55	0.01297	CU M/MI	-184.3560606	CU M
SP3	Day 4	09.01.2004	1	0.01273	CU M/MI	-184.280303	CU M
SP3	Day 4	09.01.2004	1.05	0.01265	CU M/MI	-184.3181818	CU M
SP3	Day 4	09.01.2004	1.1	0.01401	CU M/MI	-184.280303	CU M
SP3	Day 4	09.01.2004	1.15	0.01244	CU M/MI	-184.2045455	CU M
SP3	Day 4	09.01.2004	1.2	0.01241	CU M/MI	-184.1287879	CU M
SP3	Day 4	09.01.2004	1.25	0.01267	CU M/MI	-184.0909091	CU M
SP3	Day 4	09.01.2004	1.3	0.01259	CU M/MI	-184.0151515	CU M
SP3	Day 4	09.01.2004	1.35	0.01241	CU M/MI	-183.9393939	CU M
SP3	Day 4	09.01.2004	1.4	0	CU M/MI	-184.0530303	CU M
SP3	Day 4	09.01.2004	1.45	0	CU M/MI	-184.3560606	CU M
SP3	Day 4	09.01.2004	1.5	0	CU M/MI	-184.6212121	CU M
SP3	Day 4	09.01.2004	1.55	0	CU M/MI	-184.8863636	CU M
SP3	Day 4	09.01.2004	2	0	CU M/MI	-185.1893939	CU M
SP3	Day 4	09.01.2004	2.05	0	CU M/MI	-185.4545455	CU M
SP3	Day 4	09.01.2004	2.1	0	CU M/MI	-185.6439394	CU M
SP3	Day 4	09.01.2004	2.15	0	CU M/MI	-185.9469697	CU M
SP3	Day 4	09.01.2004	2.2	0	CU M/MI	-186.2121212	CU M
SP3	Day 4	09.01.2004	2.25	0	CU M/MI	-186.5151515	CU M
SP3	Day 4	09.01.2004	2.3	0	CU M/MI	-186.6287879	CU M
SP3	Day 4	09.01.2004	2.35	0	CU M/MI	-186.9318182	CU M
SP3	Day 4	09.01.2004	2.4	0.0126	CU M/MI	-187.1590909	CU M
SP3	Day 4	09.01.2004	2.45	0	CU M/MI	-187.3863636	CU M
SP3	Day 4	09.01.2004	2.5	0	CU M/MI	-187.6893939	CU M
SP3	Day 4	09.01.2004	2.55	0.01236	CU M/MI	-187.8030303	CU M
SP3	Day 4	09.01.2004	3	0	CU M/MI	-188.0681818	CU M
SP3	Day 4	09.01.2004	3.05	0	CU M/MI	-188.3712121	CU M
SP3	Day 4	09.01.2004	3.1	0	CU M/MI	-188.6742424	CU M
SP3	Day 4	09.01.2004	3.15	0	CU M/MI	-189.0151515	CU M
SP3	Day 4	09.01.2004	3.2	0	CU M/MI	-189.3181818	CU M
SP3	Day 4	09.01.2004	3.25	0.01228	CU M/MI	-189.3181818	CU M
SP3	Day 4	09.01.2004	3.3	0	CU M/MI	-189.280303	CU M
SP3	Day 4	09.01.2004	3.35	0	CU M/MI	-189.5833333	CU M
SP3	Day 4	09.01.2004	3.4	0	CU M/MI	-189.8863636	CU M
SP3	Day 4	09.01.2004	3.45	0.01212	CU M/MI	-190.0378788	CU M
SP3	Day 4	09.01.2004	3.5	0	CU M/MI	-190.0757576	CU M
SP3	Day 4	09.01.2004	3.55	0	CU M/MI	-190.3787879	CU M
SP3	Day 4	09.01.2004	4	0	CU M/MI	-190.6818182	CU M
SP3	Day 4	09.01.2004	4.05	0	CU M/MI	-190.9469697	CU M
SP3	Day 4	09.01.2004	4.1	0.01181	CU M/MI	-191.0606061	CU M
SP3	Day 4	09.01.2004	4.15	0	CU M/MI	-191.0606061	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3	Day 4	09.01.2004	4.2	0	CU M/MI	-191.3636364	CU M
SP3	Day 4	09.01.2004	4.25	0	CU M/MI	-191.5530303	CU M
SP3	Day 4	09.01.2004	4.3	0	CU M/MI	-191.8560606	CU M
SP3	Day 4	09.01.2004	4.35	0	CU M/MI	-192.0833333	CU M
SP3	Day 4	09.01.2004	4.4	0	CU M/MI	-192.3863636	CU M
SP3	Day 4	09.01.2004	4.45	0.00438	CU M/MI	-192.6893939	CU M
SP3	Day 4	09.01.2004	4.5	0	CU M/MI	-192.9545455	CU M
SP3	Day 4	09.01.2004	4.55	0	CU M/MI	-193.2575758	CU M
SP3	Day 4	09.01.2004	5	0	CU M/MI	-193.5984848	CU M
SP3	Day 4	09.01.2004	5.05	0	CU M/MI	-193.9015152	CU M
SP3	Day 4	09.01.2004	5.1	0	CU M/MI	-194.2045455	CU M
SP3	Day 4	09.01.2004	5.15	0.0117	CU M/MI	-194.4318182	CU M
SP3	Day 4	09.01.2004	5.2	0.01187	CU M/MI	-194.3560606	CU M
SP3	Day 4	09.01.2004	5.25	0.01207	CU M/MI	-194.280303	CU M
SP3	Day 4	09.01.2004	5.3	0.012	CU M/MI	-194.2424242	CU M
SP3	Day 4	09.01.2004	5.35	0.02262	CU M/MI	-192.5757576	CU M
SP3	Day 4	09.01.2004	5.4	0.01256	CU M/MI	-192.5378788	CU M
SP3	Day 4	09.01.2004	5.45	0.01268	CU M/MI	-192.4621212	CU M
SP3	Day 4	09.01.2004	5.5	0.01282	CU M/MI	-192.3863636	CU M
SP3	Day 4	09.01.2004	5.55	0.01235	CU M/MI	-192.3484848	CU M
SP3	Day 5	09.01.2004	6	0.01266	CU M/MI	-192.2727273	CU M
SP3	Day 5	09.01.2004	6.05	0.01272	CU M/MI	-192.1969697	CU M
SP3	Day 5	09.01.2004	6.1	0.01247	CU M/MI	-192.1590909	CU M
SP3	Day 5	09.01.2004	6.15	0.01276	CU M/MI	-192.0833333	CU M
SP3	Day 5	09.01.2004	6.2	0.01245	CU M/MI	-192.0075758	CU M
SP3	Day 5	09.01.2004	6.25	0.01242	CU M/MI	-191.969697	CU M
SP3	Day 5	09.01.2004	6.3	0.01233	CU M/MI	-191.8939394	CU M
SP3	Day 5	09.01.2004	6.35	0.01331	CU M/MI	-190.0757576	CU M
SP3	Day 5	09.01.2004	6.4	0.01352	CU M/MI	-190	CU M
SP3	Day 5	09.01.2004	6.45	0.01339	CU M/MI	-189.9242424	CU M
SP3	Day 5	09.01.2004	6.5	0.01324	CU M/MI	-189.8484848	CU M
SP3	Day 5	09.01.2004	6.55	0.01322	CU M/MI	-189.8106061	CU M
SP3	Day 5	09.01.2004	7	0.01321	CU M/MI	-189.7348485	CU M
SP3	Day 5	09.01.2004	7.05	0.01325	CU M/MI	-189.6590909	CU M
SP3	Day 5	09.01.2004	7.1	0.51333	CU M/MI	-188.4469697	CU M
SP3	Day 5	09.01.2004	7.15	0.01368	CU M/MI	-187.7651515	CU M
SP3	Day 5	09.01.2004	7.2	0.01378	CU M/MI	-187.7272727	CU M
SP3	Day 5	09.01.2004	7.25	0.0133	CU M/MI	-187.6515152	CU M
SP3	Day 5	09.01.2004	7.3	0.01334	CU M/MI	-187.5757576	CU M
SP3	Day 5	09.01.2004	7.35	0.01329	CU M/MI	-187.5	CU M
SP3	Day 5	09.01.2004	7.4	0.59953	CU M/MI	-187.3106061	CU M
SP3	Day 5	09.01.2004	7.45	0.01329	CU M/MI	-188.4848485	CU M
SP3	Day 5	09.01.2004	7.5	0.01381	CU M/MI	-188.4090909	CU M
SP3	Day 5	09.01.2004	7.55	0.014	CU M/MI	-188.3333333	CU M
SP3	Day 5	09.01.2004	8	0.01349	CU M/MI	-188.2575758	CU M
SP3	Day 5	09.01.2004	8.05	0.01358	CU M/MI	-188.1818182	CU M
SP3	Day 5	09.01.2004	8.1	0.01355	CU M/MI	-188.1439394	CU M
SP3	Day 5	09.01.2004	8.15	0.01386	CU M/MI	-188.0681818	CU M
SP3	Day 5	09.01.2004	8.2	0.0136	CU M/MI	-187.9924242	CU M
SP3	Day 5	09.01.2004	8.25	0.01336	CU M/MI	-187.9166667	CU M
SP3	Day 5	09.01.2004	8.3	0.01324	CU M/MI	-187.8787879	CU M
SP3	Day 5	09.01.2004	8.35	0.0201	CU M/MI	-186.0606061	CU M
SP3	Day 5	09.01.2004	8.4	0.01361	CU M/MI	-185.9848485	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3	Day 5	09.01.2004	8.45	0.0137	CU M/MI	-185.9090909	CU M
SP3	Day 5	09.01.2004	8.5	0.0138	CU M/MI	-185.8333333	CU M
SP3	Day 5	09.01.2004	8.55	0.01362	CU M/MI	-185.7954545	CU M
SP3	Day 5	09.01.2004	9	0.01333	CU M/MI	-185.719697	CU M
SP3	Day 5	09.01.2004	9.05	0.01307	CU M/MI	-185.6439394	CU M
SP3	Day 5	09.01.2004	9.1	0.01322	CU M/MI	-185.5681818	CU M
SP3	Day 5	09.01.2004	9.15	0.01349	CU M/MI	-185.530303	CU M
SP3	Day 5	09.01.2004	9.2	0.01415	CU M/MI	-183.7878788	CU M
SP3	Day 5	09.01.2004	9.25	0.01381	CU M/MI	-183.7121212	CU M
SP3	Day 5	09.01.2004	9.3	0.01396	CU M/MI	-183.6363636	CU M
SP3	Day 5	09.01.2004	9.35	0.01386	CU M/MI	-183.5984848	CU M
SP3	Day 5	09.01.2004	9.4	0.01367	CU M/MI	-183.5227273	CU M
SP3	Day 5	09.01.2004	9.45	0.01374	CU M/MI	-183.4469697	CU M
SP3	Day 5	09.01.2004	9.5	0.01331	CU M/MI	-183.3712121	CU M
SP3	Day 5	09.01.2004	9.55	0.01331	CU M/MI	-183.2954545	CU M
SP3	Day 5	09.01.2004	10	0.01336	CU M/MI	-183.2575758	CU M
SP3	Day 5	09.01.2004	10.05	0.01328	CU M/MI	-183.1818182	CU M
SP3	Day 5	09.01.2004	10.1	0.01317	CU M/MI	-183.1060606	CU M
SP3	Day 5	09.01.2004	10.15	0.01312	CU M/MI	-183.030303	CU M
SP3	Day 5	09.01.2004	10.2	0.0131	CU M/MI	-182.9924242	CU M
SP3	Day 5	09.01.2004	10.25	0.01277	CU M/MI	-182.9166667	CU M
SP3	Day 5	09.01.2004	10.3	0.01288	CU M/MI	-182.8409091	CU M
SP3	Day 5	09.01.2004	10.35	0.01262	CU M/MI	-182.8030303	CU M
SP3	Day 5	09.01.2004	10.4	0.01322	CU M/MI	-182.7272727	CU M
SP3	Day 5	09.01.2004	10.45	0.52344	CU M/MI	-182.4621212	CU M
SP3	Day 5	09.01.2004	10.5	0.01333	CU M/MI	-180.9848485	CU M
SP3	Day 5	09.01.2004	10.55	0.01325	CU M/MI	-180.9090909	CU M
SP3	Day 5	09.01.2004	11	0.01314	CU M/MI	-180.8712121	CU M
SP3	Day 5	09.01.2004	11.05	0.01327	CU M/MI	-180.7954545	CU M
SP3	Day 5	09.01.2004	11.1	0.01331	CU M/MI	-180.719697	CU M
SP3	Day 5	09.01.2004	11.15	0.01334	CU M/MI	-180.6439394	CU M
SP3	Day 5	09.01.2004	11.2	0.01324	CU M/MI	-180.6060606	CU M
SP3	Day 5	09.01.2004	11.25	0.013	CU M/MI	-180.530303	CU M
SP3	Day 5	09.01.2004	11.3	0.01318	CU M/MI	-180.4545455	CU M
SP3	Day 5	09.01.2004	11.35	0.01294	CU M/MI	-180.3787879	CU M
SP3	Day 5	09.01.2004	11.4	0.01327	CU M/MI	-180.3409091	CU M
SP3	Day 5	09.01.2004	11.45	0.0128	CU M/MI	-180.2651515	CU M
SP3	Day 5	09.01.2004	11.5	0.01291	CU M/MI	-180.1893939	CU M
SP3	Day 5	09.01.2004	11.55	0.01265	CU M/MI	-180.1136364	CU M
SP3	Day 5	09.01.2004	12	0.01288	CU M/MI	-180.0757576	CU M
SP3	Day 5	09.01.2004	12.05	0.01286	CU M/MI	-180	CU M
SP3	Day 5	09.01.2004	12.1	0.01278	CU M/MI	-179.9242424	CU M
SP3	Day 5	09.01.2004	12.15	0.01276	CU M/MI	-179.8863636	CU M
SP3	Day 5	09.01.2004	12.2	0.01267	CU M/MI	-179.8106061	CU M
SP3	Day 5	09.01.2004	12.25	0.0128	CU M/MI	-179.7348485	CU M
SP3	Day 5	09.01.2004	12.3	0.01313	CU M/MI	-179.6969697	CU M
SP3	Day 5	09.01.2004	12.35	0.01255	CU M/MI	-179.6212121	CU M
SP3	Day 5	09.01.2004	12.4	0.01281	CU M/MI	-179.5454545	CU M
SP3	Day 5	09.01.2004	12.45	0.01282	CU M/MI	-179.5075758	CU M
SP3	Day 5	09.01.2004	12.5	0.01292	CU M/MI	-179.4318182	CU M
SP3	Day 5	09.01.2004	12.55	0.01283	CU M/MI	-179.3560606	CU M
SP3	Day 5	09.01.2004	13	0.01245	CU M/MI	-179.280303	CU M
SP3	Day 5	09.01.2004	13.05	0.01263	CU M/MI	-179.2424242	CU M

Appendix B
Raw Flow from Accommodations (SP-3)
23 August Through 3 September 2004

Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3	Day 5	09.01.2004	13.1	0.01272	CU M/MI	-179.1666667	CU M
SP3	Day 5	09.01.2004	13.15	0.01349	CU M/MI	-179.0909091	CU M
SP3	Day 5	09.01.2004	13.2	0.01294	CU M/MI	-179.0530303	CU M
SP3	Day 5	09.01.2004	13.25	0.01273	CU M/MI	-178.9772727	CU M
SP3	Day 5	09.01.2004	13.3	0.59151	CU M/MI	-177.4242424	CU M
SP3	Day 5	09.01.2004	13.35	0.01316	CU M/MI	-177.2727273	CU M
SP3	Day 5	09.01.2004	13.4	0.01313	CU M/MI	-177.1969697	CU M
SP3	Day 5	09.01.2004	13.45	0.01353	CU M/MI	-177.1212121	CU M
SP3	Day 5	09.01.2004	13.5	0.01328	CU M/MI	-177.0833333	CU M
SP3	Day 5	09.01.2004	13.55	0.01355	CU M/MI	-177.0075758	CU M
SP3	Day 5	09.01.2004	14	0.0132	CU M/MI	-176.9318182	CU M
SP3	Day 5	09.01.2004	14.05	0.01326	CU M/MI	-176.8560606	CU M
SP3	Day 5	09.01.2004	14.1	0.01333	CU M/MI	-176.8181818	CU M
SP3	Day 5	09.01.2004	14.15	0.01333	CU M/MI	-176.7424242	CU M
SP3	Day 5	09.01.2004	14.2	0.01329	CU M/MI	-176.6666667	CU M
SP3	Day 5	09.01.2004	14.25	0.01298	CU M/MI	-176.5909091	CU M
SP3	Day 5	09.01.2004	14.3	0.01297	CU M/MI	-176.5530303	CU M
SP3	Day 5	09.01.2004	14.35	0.01289	CU M/MI	-176.4772727	CU M
SP3	Day 5	09.01.2004	14.4	0.01306	CU M/MI	-176.4015152	CU M
SP3	Day 5	09.01.2004	14.45	0.01276	CU M/MI	-176.3636364	CU M
SP3	Day 5	09.01.2004	14.5	0.01303	CU M/MI	-176.2878788	CU M
SP3	Day 5	09.01.2004	14.55	0.0129	CU M/MI	-176.2121212	CU M
SP3	Day 5	09.01.2004	15	0.01286	CU M/MI	-176.1363636	CU M
SP3	Day 5	09.01.2004	15.05	0.01694	CU M/MI	-174.6590909	CU M
SP3	Day 5	09.01.2004	15.1	0.01319	CU M/MI	-174.6212121	CU M
SP3	Day 5	09.01.2004	15.15	0.01303	CU M/MI	-174.5454545	CU M
SP3	Day 5	09.01.2004	15.2	0.01318	CU M/MI	-174.469697	CU M
SP3	Day 5	09.01.2004	15.25	0.01313	CU M/MI	-174.3939394	CU M
SP3	Day 5	09.01.2004	15.3	0.01309	CU M/MI	-174.3560606	CU M
SP3	Day 5	09.01.2004	15.35	0.01314	CU M/MI	-174.280303	CU M
SP3	Day 5	09.01.2004	15.4	0.01293	CU M/MI	-174.2045455	CU M
SP3	Day 5	09.01.2004	15.45	0.01293	CU M/MI	-174.1287879	CU M
SP3	Day 5	09.01.2004	15.5	0.01302	CU M/MI	-174.0909091	CU M
SP3	Day 5	09.01.2004	15.55	0.01309	CU M/MI	-174.0151515	CU M
SP3	Day 5	09.01.2004	16	0.01372	CU M/MI	-172.2727273	CU M
SP3	Day 5	09.01.2004	16.05	0.01324	CU M/MI	-172.1969697	CU M
SP3	Day 5	09.01.2004	16.1	0.01318	CU M/MI	-172.1590909	CU M
SP3	Day 5	09.01.2004	16.15	0.01327	CU M/MI	-172.0833333	CU M
SP3	Day 5	09.01.2004	16.2	0.01322	CU M/MI	-172.0075758	CU M
SP3	Day 5	09.01.2004	16.25	0.01324	CU M/MI	-171.9318182	CU M
SP3	Day 5	09.01.2004	16.3	0.01323	CU M/MI	-171.8939394	CU M
SP3	Day 5	09.01.2004	16.35	0.01315	CU M/MI	-171.8181818	CU M
SP3	Day 5	09.01.2004	16.4	0.0135	CU M/MI	-171.7424242	CU M
SP3	Day 5	09.01.2004	16.45	0.01323	CU M/MI	-171.6666667	CU M
SP3	Day 5	09.01.2004	16.5	0.01292	CU M/MI	-171.6287879	CU M
SP3	Day 5	09.01.2004	16.55	0	CU M/MI	-172.2348485	CU M
SP3	Day 5	09.01.2004	17	0.0135	CU M/MI	-176.0606061	CU M
SP3	Day 5	09.01.2004	17.05	0.01323	CU M/MI	-175.9848485	CU M
SP3	Day 5	09.01.2004	17.1	0.01348	CU M/MI	-175.9469697	CU M
SP3	Day 5	09.01.2004	17.15	0.01333	CU M/MI	-175.8712121	CU M
SP3	Day 5	09.01.2004	17.2	0.01342	CU M/MI	-175.7954545	CU M
SP3	Day 5	09.01.2004	17.25	0.01322	CU M/MI	-175.719697	CU M
SP3	Day 5	09.01.2004	17.3	0.01355	CU M/MI	-175.6818182	CU M

Appendix B
Raw Flow from Accommodations (SP-3)
23 August Through 3 September 2004

Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3	Day 5	09.01.2004	17.35	0.01339	CU M/MI	-174.5075758	CU M
SP3	Day 5	09.01.2004	17.4	0.01315	CU M/MI	-174.4318182	CU M
SP3	Day 5	09.01.2004	17.45	0.01348	CU M/MI	-174.3560606	CU M
SP3	Day 5	09.01.2004	17.5	0.01357	CU M/MI	-174.3181818	CU M
SP3	Day 5	09.01.2004	17.55	0.01354	CU M/MI	-174.2424242	CU M
SP3	Day 5	09.01.2004	18	0.0131	CU M/MI	-174.1666667	CU M
SP3	Day 5	09.01.2004	18.05	0.01348	CU M/MI	-174.0909091	CU M
SP3	Day 5	09.01.2004	18.1	0.51147	CU M/MI	-173.5606061	CU M
SP3	Day 5	09.01.2004	18.15	0.01396	CU M/MI	-172.1969697	CU M
SP3	Day 5	09.01.2004	18.2	0.01371	CU M/MI	-172.1212121	CU M
SP3	Day 5	09.01.2004	18.25	0.01362	CU M/MI	-172.0454545	CU M
SP3	Day 5	09.01.2004	18.3	0.01369	CU M/MI	-171.969697	CU M
SP3	Day 5	09.01.2004	18.35	0.01355	CU M/MI	-171.8939394	CU M
SP3	Day 5	09.01.2004	18.4	0.01345	CU M/MI	-171.8560606	CU M
SP3	Day 5	09.01.2004	18.45	0.58466	CU M/MI	-170.3030303	CU M
SP3	Day 5	09.01.2004	18.5	0.01332	CU M/MI	-170.0378788	CU M
SP3	Day 5	09.01.2004	18.55	0.01338	CU M/MI	-169.9621212	CU M
SP3	Day 5	09.01.2004	19	0.0137	CU M/MI	-169.9242424	CU M
SP3	Day 5	09.01.2004	19.05	0.01372	CU M/MI	-169.8484848	CU M
SP3	Day 5	09.01.2004	19.1	0.01335	CU M/MI	-169.7727273	CU M
SP3	Day 5	09.01.2004	19.15	0.01328	CU M/MI	-169.6969697	CU M
SP3	Day 5	09.01.2004	19.2	0.01327	CU M/MI	-169.6590909	CU M
SP3	Day 5	09.01.2004	19.25	0.02516	CU M/MI	-168.7121212	CU M
SP3	Day 5	09.01.2004	19.3	0.01359	CU M/MI	-168.6363636	CU M
SP3	Day 5	09.01.2004	19.35	0.01367	CU M/MI	-168.5606061	CU M
SP3	Day 5	09.01.2004	19.4	0.01353	CU M/MI	-168.4848485	CU M
SP3	Day 5	09.01.2004	19.45	0.01327	CU M/MI	-168.4469697	CU M
SP3	Day 5	09.01.2004	20	0.01334	CU M/MI	-168.219697	CU M
SP3	Day 5	09.01.2004	20.05	0.01306	CU M/MI	-168.1818182	CU M
SP3	Day 5	09.01.2004	20.1	0.01313	CU M/MI	-168.1060606	CU M
SP3	Day 5	09.01.2004	20.15	0.01315	CU M/MI	-168.030303	CU M
SP3	Day 5	09.01.2004	20.2	0.01303	CU M/MI	-167.9545455	CU M
SP3	Day 5	09.01.2004	20.25	0.01284	CU M/MI	-167.9166667	CU M
SP3	Day 5	09.01.2004	20.3	0.01278	CU M/MI	-167.8409091	CU M
SP3	Day 5	09.01.2004	20.35	0.01304	CU M/MI	-167.7651515	CU M
SP3	Day 5	09.01.2004	20.4	0.01283	CU M/MI	-167.7272727	CU M
SP3	Day 5	09.01.2004	20.45	0.01276	CU M/MI	-167.6515152	CU M
SP3	Day 5	09.01.2004	20.5	0.01281	CU M/MI	-167.5757576	CU M
SP3	Day 5	09.01.2004	20.55	0.01282	CU M/MI	-167.5	CU M
SP3	Day 5	09.01.2004	21	0.02817	CU M/MI	-165.8712121	CU M
SP3	Day 5	09.01.2004	21.05	0.0133	CU M/MI	-165.7954545	CU M
SP3	Day 5	09.01.2004	21.1	0.0135	CU M/MI	-165.7575758	CU M
SP3	Day 5	09.01.2004	21.15	0.01329	CU M/MI	-165.6818182	CU M
SP3	Day 5	09.01.2004	21.2	0.01341	CU M/MI	-165.6060606	CU M
SP3	Day 5	09.01.2004	21.25	0.0133	CU M/MI	-165.530303	CU M
SP3	Day 5	09.01.2004	21.3	0.01359	CU M/MI	-165.4924242	CU M
SP3	Day 5	09.01.2004	21.35	0.01328	CU M/MI	-165.4166667	CU M
SP3	Day 5	09.01.2004	21.4	0.01323	CU M/MI	-165.3409091	CU M
SP3	Day 5	09.01.2004	21.45	0.01321	CU M/MI	-165.2651515	CU M
SP3	Day 5	09.01.2004	21.5	0.01297	CU M/MI	-165.2272727	CU M
SP3	Day 5	09.01.2004	21.55	0.01294	CU M/MI	-165.1515152	CU M
SP3	Day 5	09.01.2004	22	0.03452	CU M/MI	-163.4848485	CU M
SP3	Day 5	09.01.2004	22.05	0.01324	CU M/MI	-163.4090909	CU M

Appendix B
Raw Flow from Accommodations (SP-3)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3	Day 5	09.01.2004	22.1	0.01388	CU M/MI	-163.3333333	CU M
SP3	Day 5	09.01.2004	22.15	0.01318	CU M/MI	-163.2575758	CU M
SP3	Day 5	09.01.2004	22.2	0.01347	CU M/MI	-163.219697	CU M
SP3	Day 5	09.01.2004	22.25	0.01312	CU M/MI	-163.1439394	CU M
SP3	Day 5	09.01.2004	22.3	0.01268	CU M/MI	-163.0681818	CU M
SP3	Day 5	09.01.2004	22.35	0.01333	CU M/MI	-162.9924242	CU M
SP3	Day 5	09.01.2004	22.4	0.01302	CU M/MI	-162.9545455	CU M
SP3	Day 5	09.01.2004	22.45	0.01309	CU M/MI	-162.8787879	CU M
SP3	Day 5	09.01.2004	22.5	0.01314	CU M/MI	-162.8030303	CU M
SP3	Day 5	09.01.2004	22.55	0.01289	CU M/MI	-162.7272727	CU M
SP3	Day 5	09.01.2004	23	0.01304	CU M/MI	-162.6893939	CU M
SP3	Day 5	09.01.2004	23.05	0.01289	CU M/MI	-162.6136364	CU M
SP3	Day 5	09.01.2004	23.1	0.01258	CU M/MI	-162.5378788	CU M
SP3	Day 5	09.01.2004	23.15	0.01297	CU M/MI	-162.5	CU M
SP3	Day 5	09.01.2004	23.2	0.01289	CU M/MI	-162.4242424	CU M
SP3	Day 5	09.01.2004	23.25	0.01285	CU M/MI	-162.3484848	CU M
SP3	Day 5	09.01.2004	23.3	0.01262	CU M/MI	-162.3106061	CU M
SP3	Day 5	09.01.2004	23.35	0.01291	CU M/MI	-162.2348485	CU M
SP3	Day 5	09.01.2004	23.4	0.01268	CU M/MI	-162.1590909	CU M
SP3	Day 5	09.01.2004	23.45	0.01287	CU M/MI	-162.0833333	CU M
SP3	Day 5	09.01.2004	23.5	0.01285	CU M/MI	-162.0454545	CU M
SP3	Day 5	09.01.2004	23.55	0	CU M/MI	-162.0075758	CU M
SP3	Day 5	09.02.2004	0	0.01381	CU M/MI	-160.3787879	CU M
SP3	Day 5	09.02.2004	0.05	0.01315	CU M/MI	-160.3030303	CU M
SP3	Day 5	09.02.2004	0.1	0.01313	CU M/MI	-160.2651515	CU M
SP3	Day 5	09.02.2004	0.15	0.0133	CU M/MI	-160.1893939	CU M
SP3	Day 5	09.02.2004	0.2	0.01329	CU M/MI	-160.1136364	CU M
SP3	Day 5	09.02.2004	0.25	0.0132	CU M/MI	-160.0757576	CU M
SP3	Day 5	09.02.2004	0.3	0.01317	CU M/MI	-160	CU M
SP3	Day 5	09.02.2004	0.35	0.01265	CU M/MI	-159.9242424	CU M
SP3	Day 5	09.02.2004	0.4	0.01315	CU M/MI	-159.8484848	CU M
SP3	Day 5	09.02.2004	0.45	0.01306	CU M/MI	-159.8106061	CU M
SP3	Day 5	09.02.2004	0.5	0.01272	CU M/MI	-159.7727273	CU M
SP3	Day 5	09.02.2004	0.55	0.01297	CU M/MI	-159.6969697	CU M
SP3	Day 5	09.02.2004	1	0.01275	CU M/MI	-159.6212121	CU M
SP3	Day 5	09.02.2004	1.05	0.01285	CU M/MI	-159.5833333	CU M
SP3	Day 5	09.02.2004	1.1	0.01255	CU M/MI	-159.5075758	CU M
SP3	Day 5	09.02.2004	1.15	0.01275	CU M/MI	-159.4318182	CU M
SP3	Day 5	09.02.2004	1.2	0.01284	CU M/MI	-159.3560606	CU M
SP3	Day 5	09.02.2004	1.25	0.01277	CU M/MI	-159.3181818	CU M
SP3	Day 5	09.02.2004	1.3	0.01259	CU M/MI	-159.280303	CU M
SP3	Day 5	09.02.2004	1.35	0.01245	CU M/MI	-159.2045455	CU M
SP3	Day 5	09.02.2004	1.4	0.01217	CU M/MI	-159.1287879	CU M
SP3	Day 5	09.02.2004	1.45	0	CU M/MI	-159.0909091	CU M
SP3	Day 5	09.02.2004	1.5	0	CU M/MI	-159.3560606	CU M
SP3	Day 5	09.02.2004	1.55	0.01221	CU M/MI	-159.3560606	CU M
SP3	Day 5	09.02.2004	2	0.01216	CU M/MI	-159.280303	CU M
SP3	Day 5	09.02.2004	2.05	0.01245	CU M/MI	-159.2045455	CU M
SP3	Day 5	09.02.2004	2.1	0.01274	CU M/MI	-159.1666667	CU M
SP3	Day 5	09.02.2004	2.15	0	CU M/MI	-159.3939394	CU M
SP3	Day 5	09.02.2004	2.2	0	CU M/MI	-159.6590909	CU M
SP3	Day 5	09.02.2004	2.25	0	CU M/MI	-159.9621212	CU M
SP3	Day 5	09.02.2004	2.3	0	CU M/MI	-160.1893939	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3	Day 5	09.02.2004	2.35	0	CU M/MI	-160.4924242	CU M
SP3	Day 5	09.02.2004	2.4	0.01223	CU M/MI	-160.4545455	CU M
SP3	Day 5	09.02.2004	2.45	0.01295	CU M/MI	-160.3787879	CU M
SP3	Day 5	09.02.2004	2.5	0.01225	CU M/MI	-160.3409091	CU M
SP3	Day 5	09.02.2004	2.55	0.01243	CU M/MI	-160.2651515	CU M
SP3	Day 5	09.02.2004	3	0.01229	CU M/MI	-160.2272727	CU M
SP3	Day 5	09.02.2004	3.05	0.01289	CU M/MI	-160.1515152	CU M
SP3	Day 5	09.02.2004	3.1	0	CU M/MI	-160.2651515	CU M
SP3	Day 5	09.02.2004	3.15	0	CU M/MI	-160.5681818	CU M
SP3	Day 5	09.02.2004	3.2	0	CU M/MI	-160.8712121	CU M
SP3	Day 5	09.02.2004	3.25	0	CU M/MI	-160.9090909	CU M
SP3	Day 5	09.02.2004	3.3	0.00275	CU M/MI	-161.1742424	CU M
SP3	Day 5	09.02.2004	3.35	0.01235	CU M/MI	-161.0984848	CU M
SP3	Day 5	09.02.2004	3.4	0	CU M/MI	-161.1742424	CU M
SP3	Day 5	09.02.2004	3.45	0	CU M/MI	-161.4772727	CU M
SP3	Day 5	09.02.2004	3.5	0.01212	CU M/MI	-161.7045455	CU M
SP3	Day 5	09.02.2004	3.55	0.01221	CU M/MI	-161.6287879	CU M
SP3	Day 5	09.02.2004	4	0	CU M/MI	-161.6666667	CU M
SP3	Day 5	09.02.2004	4.05	0	CU M/MI	-161.9318182	CU M
SP3	Day 5	09.02.2004	4.1	0	CU M/MI	-162.2348485	CU M
SP3	Day 5	09.02.2004	4.15	0.01238	CU M/MI	-162.4621212	CU M
SP3	Day 5	09.02.2004	4.2	0.01226	CU M/MI	-162.4242424	CU M
SP3	Day 5	09.02.2004	4.25	0.01226	CU M/MI	-162.4621212	CU M
SP3	Day 5	09.02.2004	4.3	0.0123	CU M/MI	-162.3863636	CU M
SP3	Day 5	09.02.2004	4.35	0	CU M/MI	-162.5378788	CU M
SP3	Day 5	09.02.2004	4.4	0.01213	CU M/MI	-162.6136364	CU M
SP3	Day 5	09.02.2004	4.45	0.01223	CU M/MI	-162.6515152	CU M
SP3	Day 5	09.02.2004	4.5	0	CU M/MI	-162.6515152	CU M
SP3	Day 5	09.02.2004	4.55	0	CU M/MI	-162.9545455	CU M
SP3	Day 5	09.02.2004	5	0	CU M/MI	-163.219697	CU M
SP3	Day 5	09.02.2004	5.05	0.01243	CU M/MI	-163.2954545	CU M
SP3	Day 5	09.02.2004	5.1	0.012	CU M/MI	-163.4090909	CU M
SP3	Day 5	09.02.2004	5.15	0.01216	CU M/MI	-163.3333333	CU M
SP3	Day 5	09.02.2004	5.2	0	CU M/MI	-163.3712121	CU M
SP3	Day 5	09.02.2004	5.25	0.01246	CU M/MI	-163.2954545	CU M
SP3	Day 5	09.02.2004	5.3	0.01237	CU M/MI	-163.2575758	CU M
SP3	Day 5	09.02.2004	5.35	0	CU M/MI	-163.2575758	CU M
SP3	Day 5	09.02.2004	5.4	0.01222	CU M/MI	-163.2954545	CU M
SP3	Day 5	09.02.2004	5.45	0.01237	CU M/MI	-163.219697	CU M
SP3	Day 5	09.02.2004	5.5	0.01207	CU M/MI	-163.1818182	CU M
SP3	Day 5	09.02.2004	5.55	0.01231	CU M/MI	-163.1818182	CU M
SP3	Day 6	09.02.2004	6	0.0121	CU M/MI	-163.1060606	CU M
SP3	Day 6	09.02.2004	6.05	0	CU M/MI	-163.3333333	CU M
SP3	Day 6	09.02.2004	6.1	0	CU M/MI	-163.6363636	CU M
SP3	Day 6	09.02.2004	6.15	0	CU M/MI	-163.9772727	CU M
SP3	Day 6	09.02.2004	6.2	0	CU M/MI	-164.1666667	CU M
SP3	Day 6	09.02.2004	6.25	0	CU M/MI	-164.469697	CU M
SP3	Day 6	09.02.2004	6.3	0	CU M/MI	-164.7348485	CU M
SP3	Day 6	09.02.2004	6.35	0.40868	CU M/MI	-164.6969697	CU M
SP3	Day 6	09.02.2004	6.4	0.01269	CU M/MI	-168.9772727	CU M
SP3	Day 6	09.02.2004	6.45	0.01302	CU M/MI	-168.9015152	CU M
SP3	Day 6	09.02.2004	6.5	0.01297	CU M/MI	-168.8257576	CU M
SP3	Day 6	09.02.2004	6.55	0.01274	CU M/MI	-168.8636364	CU M

Appendix B
Raw Flow from Accommodations (SP-3)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3	Day 6	09.02.2004	7	0.01233	CU M/MI	-168.8257576	CU M
SP3	Day 6	09.02.2004	7.05	0.01721	CU M/MI	-169.8106061	CU M
SP3	Day 6	09.02.2004	7.1	0.0131	CU M/MI	-169.7348485	CU M
SP3	Day 6	09.02.2004	7.15	0.01367	CU M/MI	-169.6590909	CU M
SP3	Day 6	09.02.2004	7.2	0.01326	CU M/MI	-169.5833333	CU M
SP3	Day 6	09.02.2004	7.25	0.0134	CU M/MI	-169.5454545	CU M
SP3	Day 6	09.02.2004	7.3	0.50813	CU M/MI	-169.280303	CU M
SP3	Day 6	09.02.2004	7.35	0.01394	CU M/MI	-169.1287879	CU M
SP3	Day 6	09.02.2004	7.4	0.01357	CU M/MI	-169.0909091	CU M
SP3	Day 6	09.02.2004	7.45	0.01367	CU M/MI	-169.0151515	CU M
SP3	Day 6	09.02.2004	7.5	0.01356	CU M/MI	-168.9393939	CU M
SP3	Day 6	09.02.2004	7.55	0.01332	CU M/MI	-168.8636364	CU M
SP3	Day 6	09.02.2004	8	0.59009	CU M/MI	-168.5606061	CU M
SP3	Day 6	09.02.2004	8.05	0.01385	CU M/MI	-168.1439394	CU M
SP3	Day 6	09.02.2004	8.1	0.01377	CU M/MI	-168.0681818	CU M
SP3	Day 6	09.02.2004	8.15	0.01367	CU M/MI	-167.9924242	CU M
SP3	Day 6	09.02.2004	8.2	0.01351	CU M/MI	-167.9166667	CU M
SP3	Day 6	09.02.2004	8.25	0.01358	CU M/MI	-167.8409091	CU M
SP3	Day 6	09.02.2004	8.3	0.50668	CU M/MI	-167.2348485	CU M
SP3	Day 6	09.02.2004	8.35	0.01373	CU M/MI	-169.8863636	CU M
SP3	Day 6	09.02.2004	8.4	0.01386	CU M/MI	-169.8106061	CU M
SP3	Day 6	09.02.2004	8.45	0.01371	CU M/MI	-169.7348485	CU M
SP3	Day 6	09.02.2004	8.5	0.01373	CU M/MI	-169.6969697	CU M
SP3	Day 6	09.02.2004	8.55	0.01332	CU M/MI	-169.6212121	CU M
SP3	Day 6	09.02.2004	9	0.01359	CU M/MI	-169.5454545	CU M
SP3	Day 6	09.02.2004	9.05	0.57823	CU M/MI	-169.3560606	CU M
SP3	Day 6	09.02.2004	9.1	0.01342	CU M/MI	-169.280303	CU M
SP3	Day 6	09.02.2004	9.15	0.01346	CU M/MI	-169.2045455	CU M
SP3	Day 6	09.02.2004	9.2	0.01341	CU M/MI	-169.1287879	CU M
SP3	Day 6	09.02.2004	9.25	0.01324	CU M/MI	-169.0909091	CU M
SP3	Day 6	09.02.2004	9.3	0.01346	CU M/MI	-169.0151515	CU M
SP3	Day 6	09.02.2004	9.35	0.01329	CU M/MI	-168.9393939	CU M
SP3	Day 6	09.02.2004	9.4	0.01343	CU M/MI	-168.8636364	CU M
SP3	Day 6	09.02.2004	9.45	0.01323	CU M/MI	-168.8257576	CU M
SP3	Day 6	09.02.2004	9.5	0.51521	CU M/MI	-168.7878788	CU M
SP3	Day 6	09.02.2004	9.55	0.0134	CU M/MI	-167.1212121	CU M
SP3	Day 6	09.02.2004	10	0.0132	CU M/MI	-167.0454545	CU M
SP3	Day 6	09.02.2004	10.05	0.01346	CU M/MI	-166.969697	CU M
SP3	Day 6	09.02.2004	10.1	0.0135	CU M/MI	-166.9318182	CU M
SP3	Day 6	09.02.2004	10.15	0.01338	CU M/MI	-166.8560606	CU M
SP3	Day 6	09.02.2004	10.2	0.01353	CU M/MI	-166.780303	CU M
SP3	Day 6	09.02.2004	10.25	0.01352	CU M/MI	-166.7045455	CU M
SP3	Day 6	09.02.2004	10.3	0.01313	CU M/MI	-166.6287879	CU M
SP3	Day 6	09.02.2004	10.35	0.0132	CU M/MI	-166.5909091	CU M
SP3	Day 6	09.02.2004	10.4	0.0134	CU M/MI	-166.5151515	CU M
SP3	Day 6	09.02.2004	10.45	0.01309	CU M/MI	-166.4393939	CU M
SP3	Day 6	09.02.2004	10.5	0.01286	CU M/MI	-166.4015152	CU M
SP3	Day 6	09.02.2004	10.55	0.01293	CU M/MI	-166.3257576	CU M
SP3	Day 6	09.02.2004	11	0.01293	CU M/MI	-166.25	CU M
SP3	Day 6	09.02.2004	11.05	0.01266	CU M/MI	-166.1742424	CU M
SP3	Day 6	09.02.2004	11.1	0.59104	CU M/MI	-165.6060606	CU M
SP3	Day 6	09.02.2004	11.15	0.01326	CU M/MI	-164.4318182	CU M
SP3	Day 6	09.02.2004	11.2	0.01325	CU M/MI	-164.3560606	CU M

Appendix B
Raw Flow from Accommodations (SP-3)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP3	Day 6	09.02.2004	11.25	0.0132	CU M/MI	-164.3181818	CU M
SP3	Day 6	09.02.2004	11.3	0.01339	CU M/MI	-164.2424242	CU M
SP3	Day 6	09.02.2004	11.35	0.01323	CU M/MI	-164.1666667	CU M
SP3	Day 6	09.02.2004	11.4	0.01304	CU M/MI	-164.0909091	CU M
SP3	Day 6	09.02.2004	11.45	0.01296	CU M/MI	-164.0151515	CU M
SP3	Day 6	09.02.2004	11.5	0.01324	CU M/MI	-163.9772727	CU M
SP3	Day 6	09.02.2004	11.55	0.01369	CU M/MI	-163.9015152	CU M
SP3	Day 6	09.02.2004	12	0.01274	CU M/MI	-163.8257576	CU M
SP3	Day 6	09.02.2004	12.05	0.01255	CU M/MI	-163.7878788	CU M
SP3	Day 6	09.02.2004	12.1	0.01245	CU M/MI	-163.7121212	CU M
SP3	Day 6	09.02.2004	12.15	0.01316	CU M/MI	-163.6363636	CU M
SP3	Day 6	09.02.2004	12.2	0.01286	CU M/MI	-163.5606061	CU M
SP3	Day 6	09.02.2004	12.25	0.01302	CU M/MI	-163.5227273	CU M
SP3	Day 6	09.02.2004	12.3	0.01282	CU M/MI	-163.4469697	CU M
SP3	Day 6	09.02.2004	12.35	0.01261	CU M/MI	-163.3712121	CU M
SP3	Day 6	09.02.2004	12.4	0.01269	CU M/MI	-163.3333333	CU M
SP3	Day 6	09.02.2004	12.45	0.01289	CU M/MI	-163.2575758	CU M
SP3	Day 6	09.02.2004	12.5	0	CU M/MI	-163.219697	CU M
SP3	Day 6	09.02.2004	12.55	0.01268	CU M/MI	-163.1818182	CU M
SP3	Day 6	09.02.2004	13	0.01259	CU M/MI	-163.1439394	CU M
SP3	Day 6	09.02.2004	13.05	0.01315	CU M/MI	-163.0681818	CU M
SP3	Day 6	09.02.2004	13.1	0.01283	CU M/MI	-162.9924242	CU M
SP3	Day 6	09.02.2004	13.15	0.01278	CU M/MI	-162.9545455	CU M
SP3	Day 6	09.02.2004	13.2	0.0124	CU M/MI	-162.8787879	CU M
SP3	Day 6	09.02.2004	13.25	0.01245	CU M/MI	-162.8030303	CU M
SP3	Day 6	09.02.2004	13.3	0.01241	CU M/MI	-162.7651515	CU M
SP3	Day 6	09.02.2004	13.35	0.01265	CU M/MI	-162.6893939	CU M
SP3	Day 6	09.02.2004	13.4	0.01268	CU M/MI	-162.6515152	CU M
SP3	Day 6	09.02.2004	13.45	0.01086	CU M/MI	-162.7651515	CU M
SP3	Day 6	09.02.2004	13.5	0	CU M/MI	-162.9545455	CU M
SP3	Day 6	09.02.2004	13.55	0	CU M/MI	-163.219697	CU M
SP3	Day 6	09.02.2004	14	0.50108	CU M/MI	-161.7045455	CU M
SP3	Day 6	09.02.2004	14.05	0.01293	CU M/MI	-161.5909091	CU M
SP3	Day 6	09.02.2004	14.1	0	CU M/MI	-161.5909091	CU M

Appendix B
Raw Flow from Influent (SP-4)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4		08.23.2004	15.45	0.42956	CU M/MI	433.49605	CU M
SP4		08.23.2004	15.5	0.45118	CU M/MI	435.16145	CU M
SP4		08.23.2004	15.55	0	CU M/MI	436.1834	CU M
SP4		08.23.2004	16	0.45116	CU M/MI	437.73525	CU M
SP4		08.23.2004	16.05	0	CU M/MI	439.40065	CU M
SP4		08.23.2004	16.1	0.34099	CU M/MI	440.38475	CU M
SP4		08.23.2004	16.15	0	CU M/MI	441.6338	CU M
SP4		08.23.2004	16.2	0.48553	CU M/MI	443.2992	CU M
SP4		08.23.2004	16.25	0.27509	CU M/MI	445.15385	CU M
SP4		08.23.2004	16.3	0	CU M/MI	446.06225	CU M
SP4		08.23.2004	16.35	0.45134	CU M/MI	448.03045	CU M
SP4		08.23.2004	16.4	0.004	CU M/MI	448.5982	CU M
SP4		08.23.2004	16.45	0	CU M/MI	448.86315	CU M
SP4		08.23.2004	16.5	0.3239	CU M/MI	450.37715	CU M
SP4		08.23.2004	16.55	0.45313	CU M/MI	452.19395	CU M
SP4		08.23.2004	17	0.48728	CU M/MI	453.2916	CU M
SP4		08.23.2004	17.05	0.00066	CU M/MI	454.84345	CU M
SP4		08.23.2004	17.1	0.46592	CU M/MI	456.13035	CU M
SP4		08.23.2004	17.15	0.00345	CU M/MI	457.56865	CU M
SP4		08.23.2004	17.2	0.34413	CU M/MI	458.85555	CU M
SP4		08.23.2004	17.25	0	CU M/MI	460.256	CU M
SP4		08.23.2004	17.3	0.25241	CU M/MI	461.12655	CU M
SP4		08.23.2004	17.35	0.48885	CU M/MI	463.24615	CU M
SP4		08.23.2004	17.4	0.00435	CU M/MI	464.38165	CU M
SP4		08.23.2004	17.45	0.17885	CU M/MI	464.7223	CU M
SP4		08.23.2004	17.5	0.17229	CU M/MI	465.6307	CU M
SP4		08.23.2004	17.55	0.12196	CU M/MI	466.34985	CU M
SP4		08.23.2004	18	0.49173	CU M/MI	468.2045	CU M
SP4		08.23.2004	18.05	0.27287	CU M/MI	470.097	CU M
SP4		08.23.2004	18.1	0.49206	CU M/MI	471.6867	CU M
SP4		08.23.2004	18.15	0.39104	CU M/MI	473.8063	CU M
SP4		08.23.2004	18.25	0.4613	CU M/MI	476.3044	CU M
SP4		08.23.2004	18.3	0.49157	CU M/MI	478.76465	CU M
SP4		08.23.2004	18.35	0.02488	CU M/MI	479.4838	CU M
SP4		08.23.2004	18.4	0.45895	CU M/MI	481.26275	CU M
SP4		08.23.2004	18.45	0.39094	CU M/MI	482.8146	CU M
SP4		08.23.2004	18.5	0	CU M/MI	484.7828	CU M
SP4		08.23.2004	18.55	0.26425	CU M/MI	485.04775	CU M
SP4		08.23.2004	19	0	CU M/MI	485.27485	CU M
SP4		08.23.2004	19.05	0	CU M/MI	485.27485	CU M
SP4		08.23.2004	19.1	0.49248	CU M/MI	486.94025	CU M
SP4		08.23.2004	19.15	0.3921	CU M/MI	489.3248	CU M
SP4		08.23.2004	19.2	0.46139	CU M/MI	490.9145	CU M
SP4		08.23.2004	19.25	0.03591	CU M/MI	492.69345	CU M
SP4		08.23.2004	19.3	0.08607	CU M/MI	493.8668	CU M
SP4		08.23.2004	19.35	0.46004	CU M/MI	495.11585	CU M
SP4		08.23.2004	19.4	0.39267	CU M/MI	497.08405	CU M
SP4		08.23.2004	19.45	0.35019	CU M/MI	498.6359	CU M
SP4		08.23.2004	19.5	0.2424	CU M/MI	499.3172	CU M
SP4		08.23.2004	19.55	0.24406	CU M/MI	500.49055	CU M
SP4		08.23.2004	20	0.49081	CU M/MI	502.4966	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4		08.23.2004	20.05	0.13599	CU M/MI	503.9349	CU M
SP4		08.23.2004	20.1	0.15058	CU M/MI	504.72975	CU M
SP4		08.23.2004	20.15	0.29354	CU M/MI	505.78955	CU M
SP4		08.23.2004	20.2	0.31528	CU M/MI	506.92505	CU M
SP4		08.23.2004	20.25	0.39706	CU M/MI	508.5526	CU M
SP4		08.23.2004	20.3	0.46033	CU M/MI	510.3694	CU M
SP4		08.23.2004	20.35	0.3943	CU M/MI	512.07265	CU M
SP4		08.23.2004	20.4	0.05958	CU M/MI	514.11655	CU M
SP4		08.23.2004	20.45	0.45998	CU M/MI	514.9871	CU M
SP4		08.23.2004	20.5	0.3877	CU M/MI	515.8198	CU M
SP4		08.23.2004	20.55	0.49676	CU M/MI	518.28005	CU M
SP4		08.23.2004	21	0	CU M/MI	519.8319	CU M
SP4		08.23.2004	21.05	0.02296	CU M/MI	521.08095	CU M
SP4		08.23.2004	21.1	0.27361	CU M/MI	522.0272	CU M
SP4		08.23.2004	21.15	0.4625	CU M/MI	523.35195	CU M
SP4		08.23.2004	21.2	0.13337	CU M/MI	524.7524	CU M
SP4		08.23.2004	21.25	0.21485	CU M/MI	526.2664	CU M
SP4		08.23.2004	21.3	0	CU M/MI	526.7963	CU M
SP4		08.23.2004	21.35	0.49476	CU M/MI	527.1748	CU M
SP4		08.23.2004	21.4	0.00566	CU M/MI	529.2944	CU M
SP4		08.23.2004	21.45	0.27438	CU M/MI	530.31635	CU M
SP4		08.23.2004	21.5	0.26198	CU M/MI	532.13315	CU M
SP4		08.23.2004	21.55	0.22082	CU M/MI	533.3822	CU M
SP4		08.23.2004	22	0.2954	CU M/MI	535.00975	CU M
SP4		08.23.2004	22.05	0.02927	CU M/MI	536.22095	CU M
SP4		08.23.2004	22.1	0.46047	CU M/MI	538.03775	CU M
SP4		08.23.2004	22.15	0.43668	CU M/MI	538.71905	CU M
SP4		08.23.2004	22.2	0.46214	CU M/MI	540.08165	CU M
SP4		08.23.2004	22.25	0.45825	CU M/MI	541.97415	CU M
SP4		08.23.2004	22.3	0.03097	CU M/MI	543.4503	CU M
SP4		08.23.2004	22.35	0.02903	CU M/MI	544.77505	CU M
SP4		08.23.2004	22.4	0.45986	CU M/MI	546.51615	CU M
SP4		08.23.2004	22.45	0.33107	CU M/MI	547.9923	CU M
SP4		08.23.2004	22.5	0.32814	CU M/MI	549.08995	CU M
SP4		08.23.2004	22.55	0	CU M/MI	550.339	CU M
SP4		08.23.2004	23	0.45365	CU M/MI	551.096	CU M
SP4		08.23.2004	23.05	0.03415	CU M/MI	552.11795	CU M
SP4		08.23.2004	23.1	0.46101	CU M/MI	554.0483	CU M
SP4		08.23.2004	23.15	0.1497	CU M/MI	555.9408	CU M
SP4		08.23.2004	23.2	0.45643	CU M/MI	557.64405	CU M
SP4		08.23.2004	23.25	0.27459	CU M/MI	559.38515	CU M
SP4		08.23.2004	23.3	0.03754	CU M/MI	561.0884	CU M
SP4		08.23.2004	23.35	0.34827	CU M/MI	562.48885	CU M
SP4		08.23.2004	23.4	0.27511	CU M/MI	563.77575	CU M
SP4		08.23.2004	23.45	0.26465	CU M/MI	565.7061	CU M
SP4		08.23.2004	23.5	0.01711	CU M/MI	566.34955	CU M
SP4		08.23.2004	23.55	0.03048	CU M/MI	566.34955	CU M
SP4		08.24.2004	0	0	CU M/MI	567.2958	CU M
SP4		08.24.2004	0.05	0.49971	CU M/MI	567.71215	CU M
SP4		08.24.2004	0.1	0.0826	CU M/MI	569.9453	CU M
SP4		08.24.2004	0.15	0.04713	CU M/MI	571.42145	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4		08.24.2004	0.2	0.46135	CU M/MI	572.5191	CU M
SP4		08.24.2004	0.25	0.49427	CU M/MI	573.91955	CU M
SP4		08.24.2004	0.3	0.04997	CU M/MI	576.19055	CU M
SP4		08.24.2004	0.35	0.28614	CU M/MI	577.32605	CU M
SP4		08.24.2004	0.4	0.04271	CU M/MI	578.348	CU M
SP4		08.24.2004	0.45	0.46045	CU M/MI	580.05125	CU M
SP4		08.24.2004	0.5	0.39489	CU M/MI	580.9975	CU M
SP4		08.24.2004	0.55	0.45939	CU M/MI	582.85215	CU M
SP4		08.24.2004	1	0.45648	CU M/MI	584.0255	CU M
SP4		08.24.2004	1.05	0.02894	CU M/MI	585.5395	CU M
SP4		08.24.2004	1.1	0.46057	CU M/MI	587.09135	CU M
SP4		08.24.2004	1.15	0.02117	CU M/MI	588.189	CU M
SP4		08.24.2004	1.2	0.45601	CU M/MI	589.9301	CU M
SP4		08.24.2004	1.25	0.4906	CU M/MI	591.63335	CU M
SP4		08.24.2004	1.3	0.02454	CU M/MI	592.76885	CU M
SP4		08.24.2004	1.35	0.02196	CU M/MI	593.4123	CU M
SP4		08.24.2004	1.4	0.46909	CU M/MI	594.9263	CU M
SP4		08.24.2004	1.45	0.45758	CU M/MI	596.62955	CU M
SP4		08.24.2004	1.5	0.15397	CU M/MI	598.06785	CU M
SP4		08.24.2004	1.55	0.017	CU M/MI	599.35475	CU M
SP4		08.24.2004	2	0.39176	CU M/MI	601.32295	CU M
SP4		08.24.2004	2.05	0.45508	CU M/MI	602.7234	CU M
SP4		08.24.2004	2.1	0	CU M/MI	603.82105	CU M
SP4		08.24.2004	2.15	0.01514	CU M/MI	605.2972	CU M
SP4		08.24.2004	2.2	0.37349	CU M/MI	607.07615	CU M
SP4		08.24.2004	2.25	0.0073	CU M/MI	607.53035	CU M
SP4		08.24.2004	2.3	0.4584	CU M/MI	608.66585	CU M
SP4		08.24.2004	2.35	0.45013	CU M/MI	610.93685	CU M
SP4		08.24.2004	2.4	0.19124	CU M/MI	612.45085	CU M
SP4		08.24.2004	2.45	0.48772	CU M/MI	613.58635	CU M
SP4		08.24.2004	2.5	0.27304	CU M/MI	614.94895	CU M
SP4		08.24.2004	2.55	0.45807	CU M/MI	616.91715	CU M
SP4		08.24.2004	3	0.01186	CU M/MI	618.2419	CU M
SP4		08.24.2004	3.05	0	CU M/MI	619.79375	CU M
SP4		08.24.2004	3.1	0.26243	CU M/MI	620.6643	CU M
SP4		08.24.2004	3.15	0.46389	CU M/MI	621.5727	CU M
SP4		08.24.2004	3.2	0.45579	CU M/MI	623.9194	CU M
SP4		08.24.2004	3.25	0.00813	CU M/MI	625.0549	CU M
SP4		08.24.2004	3.3	0.48848	CU M/MI	625.5848	CU M
SP4		08.24.2004	3.35	0.48349	CU M/MI	628.0072	CU M
SP4		08.24.2004	3.4	0	CU M/MI	629.33195	CU M
SP4		08.24.2004	3.45	0.44981	CU M/MI	630.9595	CU M
SP4		08.24.2004	3.5	0.47358	CU M/MI	631.60295	CU M
SP4		08.24.2004	3.55	0.48328	CU M/MI	634.02535	CU M
SP4		08.24.2004	4	0.44698	CU M/MI	635.2744	CU M
SP4		08.24.2004	4.05	0	CU M/MI	635.88	CU M
SP4		08.24.2004	4.1	0.27499	CU M/MI	636.52345	CU M
SP4		08.24.2004	4.15	0	CU M/MI	636.97765	CU M
SP4		08.24.2004	4.2	0.34136	CU M/MI	638.49165	CU M
SP4		08.24.2004	4.25	0.4808	CU M/MI	640.76265	CU M
SP4		08.24.2004	4.3	0.00816	CU M/MI	642.7687	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4		08.24.2004	4.35	0.44924	CU M/MI	644.207	CU M
SP4		08.24.2004	4.4	0.0249	CU M/MI	645.53175	CU M
SP4		08.24.2004	4.45	0.29695	CU M/MI	647.57565	CU M
SP4		08.24.2004	4.5	0.44358	CU M/MI	647.95415	CU M
SP4		08.24.2004	4.55	0.2661	CU M/MI	649.3546	CU M
SP4		08.24.2004	5	0.26641	CU M/MI	650.52795	CU M
SP4		08.24.2004	5.05	0.44442	CU M/MI	652.19335	CU M
SP4		08.24.2004	5.1	0.47518	CU M/MI	653.48025	CU M
SP4		08.24.2004	5.15	0.26886	CU M/MI	655.06995	CU M
SP4		08.24.2004	5.2	0.27375	CU M/MI	656.5461	CU M
SP4		08.24.2004	5.25	0.44615	CU M/MI	657.7573	CU M
SP4		08.24.2004	5.3	0.0881	CU M/MI	659.91475	CU M
SP4		08.24.2004	5.35	0	CU M/MI	661.20165	CU M
SP4		08.24.2004	5.4	0.47868	CU M/MI	661.8451	CU M
SP4		08.24.2004	5.45	0.44593	CU M/MI	663.9647	CU M
SP4		08.24.2004	5.5	0.16671	CU M/MI	664.45675	CU M
SP4		08.24.2004	5.55	0.17173	CU M/MI	665.1759	CU M
SP4		08.24.2004	6	0.15287	CU M/MI	665.97075	CU M
SP4		08.24.2004	6.05	0.48386	CU M/MI	667.71185	CU M
SP4		08.24.2004	6.1	0.47932	CU M/MI	670.0964	CU M
SP4		08.24.2004	6.15	0.38296	CU M/MI	671.95105	CU M
SP4		08.24.2004	6.2	0.01828	CU M/MI	673.99495	CU M
SP4		08.24.2004	6.25	0.30058	CU M/MI	674.3356	CU M
SP4		08.24.2004	6.3	0.24381	CU M/MI	674.9412	CU M
SP4		08.24.2004	6.35	0.47741	CU M/MI	675.66035	CU M
SP4		08.24.2004	6.4	0.38437	CU M/MI	677.8935	CU M
SP4		08.24.2004	6.45	0.02026	CU M/MI	679.82385	CU M
SP4		08.24.2004	6.5	0.27229	CU M/MI	680.27805	CU M
SP4		08.24.2004	6.55	0.47959	CU M/MI	680.58085	CU M
SP4		08.24.2004	7	0.22636	CU M/MI	682.3598	CU M
SP4		08.24.2004	7.05	0.33959	CU M/MI	683.7224	CU M
SP4		08.24.2004	7.1	0.00316	CU M/MI	685.5392	CU M
SP4		08.24.2004	7.15	0.48428	CU M/MI	686.48545	CU M
SP4		08.24.2004	7.2	0.01665	CU M/MI	688.37795	CU M
SP4		08.24.2004	7.25	0.45656	CU M/MI	688.68075	CU M
SP4		08.24.2004	7.3	0.04691	CU M/MI	690.8382	CU M
SP4		08.24.2004	7.35	0.50042	CU M/MI	691.93585	CU M
SP4		08.24.2004	7.4	0.10665	CU M/MI	692.9578	CU M
SP4		08.24.2004	7.45	0	CU M/MI	693.37415	CU M
SP4		08.24.2004	7.5	0.49244	CU M/MI	695.0774	CU M
SP4		08.24.2004	7.55	0.49127	CU M/MI	697.53765	CU M
SP4		08.24.2004	8	0.00371	CU M/MI	698.2568	CU M
SP4		08.24.2004	8.05	0.45884	CU M/MI	700.4521	CU M
SP4		08.24.2004	8.1	0.39071	CU M/MI	701.5876	CU M
SP4		08.24.2004	8.15	0.35062	CU M/MI	702.53385	CU M
SP4		08.24.2004	8.2	0.02078	CU M/MI	703.82075	CU M
SP4		08.24.2004	8.25	0.46054	CU M/MI	705.25905	CU M
SP4		08.24.2004	8.3	0	CU M/MI	705.9025	CU M
SP4		08.24.2004	8.35	0.49707	CU M/MI	706.39455	CU M
SP4		08.24.2004	8.4	0	CU M/MI	707.5679	CU M
SP4		08.24.2004	8.55	0.05116	CU M/MI	712.4127	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4		08.24.2004	9	0.4605	CU M/MI	713.13185	CU M
SP4		08.24.2004	9.05	0	CU M/MI	715.2136	CU M
SP4		08.24.2004	9.1	0.25986	CU M/MI	715.8192	CU M
SP4		08.24.2004	9.15	0.3706	CU M/MI	716.5762	CU M
SP4		08.24.2004	9.2	0.14636	CU M/MI	717.14395	CU M
SP4		08.24.2004	9.25	0	CU M/MI	717.52245	CU M
SP4		08.24.2004	9.3	0.49613	CU M/MI	718.96075	CU M
SP4		08.24.2004	9.35	0.49482	CU M/MI	721.45885	CU M
SP4		08.24.2004	9.4	0.04105	CU M/MI	723.3135	CU M
SP4		08.24.2004	9.45	0.49604	CU M/MI	724.2976	CU M
SP4		08.24.2004	9.5	0.04072	CU M/MI	726.1901	CU M
SP4		08.24.2004	9.55	0.46172	CU M/MI	727.13635	CU M
SP4		08.24.2004	10	0.03451	CU M/MI	728.0069	CU M
SP4		08.24.2004	10.05	0.49592	CU M/MI	730.31575	CU M
SP4		08.24.2004	10.1	0.02532	CU M/MI	731.7162	CU M
SP4		08.24.2004	10.15	0.03359	CU M/MI	732.96525	CU M
SP4		08.24.2004	10.2	0.38056	CU M/MI	734.3657	CU M
SP4		08.24.2004	10.25	0.42432	CU M/MI	735.23625	CU M
SP4		08.24.2004	10.3	0.03583	CU M/MI	736.7124	CU M
SP4		08.24.2004	10.35	0.49473	CU M/MI	738.1507	CU M
SP4		08.24.2004	10.4	0.49481	CU M/MI	740.61095	CU M
SP4		08.24.2004	10.45	0.45648	CU M/MI	741.36795	CU M
SP4		08.24.2004	10.5	0.33526	CU M/MI	743.63895	CU M
SP4		08.24.2004	10.55	0.01137	CU M/MI	743.79035	CU M
SP4		08.24.2004	11	0	CU M/MI	744.77445	CU M
SP4		08.24.2004	11.05	0.05773	CU M/MI	745.3422	CU M
SP4		08.24.2004	11.1	0.49595	CU M/MI	746.74265	CU M
SP4		08.24.2004	11.15	0.49657	CU M/MI	749.24075	CU M
SP4		08.24.2004	11.2	0.48628	CU M/MI	751.4739	CU M
SP4		08.24.2004	11.25	0.03044	CU M/MI	753.3664	CU M
SP4		08.24.2004	11.3	0.49031	CU M/MI	754.31265	CU M
SP4		08.24.2004	11.35	0.07178	CU M/MI	755.5617	CU M
SP4		08.24.2004	11.4	0.45981	CU M/MI	757.3785	CU M
SP4		08.24.2004	11.45	0.1783	CU M/MI	758.4383	CU M
SP4		08.24.2004	11.5	0	CU M/MI	759.08175	CU M
SP4		08.24.2004	11.55	0.49428	CU M/MI	760.8607	CU M
SP4		08.24.2004	12	0.02821	CU M/MI	762.63965	CU M
SP4		08.24.2004	12.05	0.35069	CU M/MI	764.7214	CU M
SP4		08.24.2004	12.1	0.00892	CU M/MI	764.8728	CU M
SP4		08.24.2004	12.15	0.26209	CU M/MI	766.3111	CU M
SP4		08.24.2004	12.2	0	CU M/MI	766.80315	CU M
SP4		08.24.2004	12.25	0.49252	CU M/MI	768.01435	CU M
SP4		08.24.2004	12.3	0.26165	CU M/MI	769.5662	CU M
SP4		08.24.2004	12.35	0.49409	CU M/MI	771.3073	CU M
SP4		08.24.2004	12.4	0.276	CU M/MI	773.08625	CU M
SP4		08.24.2004	12.45	0.29859	CU M/MI	774.60025	CU M
SP4		08.24.2004	12.5	0.45834	CU M/MI	775.8493	CU M
SP4		08.24.2004	12.55	0.01784	CU M/MI	777.5147	CU M
SP4		08.24.2004	13	0.45733	CU M/MI	778.2717	CU M
SP4		08.24.2004	13.05	0.38947	CU M/MI	779.71	CU M
SP4		08.24.2004	13.1	0.34717	CU M/MI	781.56465	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4		08.24.2004	13.15	0.00813	CU M/MI	782.5866	CU M
SP4		08.24.2004	13.2	0.0095	CU M/MI	784.252	CU M
SP4		08.24.2004	13.25	0.38848	CU M/MI	785.27395	CU M
SP4		08.24.2004	13.3	0.45601	CU M/MI	786.71225	CU M
SP4		08.24.2004	13.35	0.00341	CU M/MI	788.4912	CU M
SP4		08.24.2004	13.4	0.45534	CU M/MI	789.3996	CU M
SP4		08.24.2004	13.45	0.00218	CU M/MI	790.80005	CU M
SP4		08.24.2004	13.5	0.4894	CU M/MI	792.31405	CU M
SP4		08.24.2004	13.55	0.48879	CU M/MI	794.73645	CU M
SP4		08.24.2004	14	0	CU M/MI	795.2285	CU M
SP4		08.24.2004	14.05	0.26551	CU M/MI	795.34205	CU M
SP4		08.24.2004	14.1	0	CU M/MI	795.607	CU M
SP4		08.24.2004	14.15	0.28724	CU M/MI	795.87195	CU M
SP4		08.24.2004	14.2	0.48813	CU M/MI	797.84015	CU M
SP4		08.24.2004	14.25	0.48883	CU M/MI	800.26255	CU M
SP4		08.24.2004	14.3	0.48695	CU M/MI	802.68495	CU M
SP4		08.24.2004	14.35	0.36751	CU M/MI	805.0695	CU M
SP4		08.24.2004	14.4	0	CU M/MI	805.18305	CU M
SP4		08.24.2004	14.45	0	CU M/MI	805.25875	CU M
SP4		08.24.2004	14.5	0.1458	CU M/MI	805.86435	CU M
SP4		08.24.2004	14.55	0.16691	CU M/MI	806.5078	CU M
SP4		08.24.2004	15	0.48491	CU M/MI	807.60545	CU M
SP4		08.24.2004	15.05	0.48565	CU M/MI	810.0657	CU M
SP4		08.24.2004	15.1	0.45806	CU M/MI	812.4881	CU M
SP4		08.24.2004	15.15	0.4506	CU M/MI	814.56985	CU M
SP4		08.24.2004	15.2	0	CU M/MI	815.5918	CU M
SP4		08.24.2004	15.25	0.21913	CU M/MI	815.8946	CU M
SP4		08.24.2004	15.3	0.23844	CU M/MI	816.8787	CU M
SP4		08.24.2004	15.35	0.48563	CU M/MI	818.317	CU M
SP4		08.24.2004	15.4	0.48443	CU M/MI	820.7394	CU M
SP4		08.24.2004	15.45	0.0204	CU M/MI	822.9347	CU M
SP4		08.24.2004	15.5	0.45194	CU M/MI	823.5403	CU M
SP4		08.24.2004	15.55	0	CU M/MI	825.39495	CU M
SP4		08.24.2004	16	0.38428	CU M/MI	826.07625	CU M
SP4		08.24.2004	16.05	0.33913	CU M/MI	827.66595	CU M
SP4		08.24.2004	16.1	0	CU M/MI	828.49865	CU M
SP4		08.24.2004	16.15	0.45058	CU M/MI	830.429	CU M
SP4		08.24.2004	16.2	0.38402	CU M/MI	831.7916	CU M
SP4		08.24.2004	16.25	0.33045	CU M/MI	833.87335	CU M
SP4		08.24.2004	16.3	0.26036	CU M/MI	834.47895	CU M
SP4		08.24.2004	16.35	0.38194	CU M/MI	835.23595	CU M
SP4		08.24.2004	16.4	0.46094	CU M/MI	837.6205	CU M
SP4		08.24.2004	16.45	0.44554	CU M/MI	839.6644	CU M
SP4		08.24.2004	16.5	0	CU M/MI	840.15645	CU M
SP4		08.24.2004	16.55	0.44471	CU M/MI	842.27605	CU M
SP4		08.24.2004	17	0	CU M/MI	842.9952	CU M
SP4		08.24.2004	17.05	0	CU M/MI	844.6606	CU M
SP4		08.24.2004	17.1	0.37974	CU M/MI	845.7961	CU M
SP4		08.24.2004	17.15	0.44293	CU M/MI	847.80215	CU M
SP4		08.24.2004	17.2	0	CU M/MI	848.40775	CU M
SP4		08.24.2004	17.25	0.44311	CU M/MI	850.2624	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4		08.24.2004	17.3	0	CU M/MI	851.43575	CU M
SP4		08.24.2004	17.35	0.22016	CU M/MI	852.04135	CU M
SP4		08.24.2004	17.45	0	CU M/MI	855.22075	CU M
SP4		08.24.2004	17.5	0	CU M/MI	855.3343	CU M
SP4		08.24.2004	17.55	0.21737	CU M/MI	856.7726	CU M
SP4		08.24.2004	18	0	CU M/MI	857.49175	CU M
SP4		08.24.2004	18.05	0.15223	CU M/MI	858.02165	CU M
SP4		08.24.2004	18.1	0.48139	CU M/MI	859.61135	CU M
SP4		08.24.2004	18.15	0.47944	CU M/MI	862.03375	CU M
SP4		08.24.2004	18.2	0.26965	CU M/MI	863.24495	CU M
SP4		08.24.2004	18.25	0.4509	CU M/MI	865.36455	CU M
SP4		08.24.2004	18.3	0.42395	CU M/MI	865.81875	CU M
SP4		08.24.2004	18.35	0	CU M/MI	867.33275	CU M
SP4		08.24.2004	18.4	0.38241	CU M/MI	868.24115	CU M
SP4		08.24.2004	18.45	0.44911	CU M/MI	870.4743	CU M
SP4		08.24.2004	18.5	0.14473	CU M/MI	871.11775	CU M
SP4		08.24.2004	18.55	0	CU M/MI	872.02615	CU M
SP4		08.24.2004	19	0.48446	CU M/MI	872.93455	CU M
SP4		08.24.2004	19.05	0.48462	CU M/MI	875.35695	CU M
SP4		08.24.2004	19.1	0	CU M/MI	876.8331	CU M
SP4		08.24.2004	19.15	0.38452	CU M/MI	877.1359	CU M
SP4		08.24.2004	19.2	0.45285	CU M/MI	879.29335	CU M
SP4		08.24.2004	19.25	0	CU M/MI	880.6181	CU M
SP4		08.24.2004	19.3	0	CU M/MI	881.64005	CU M
SP4		08.24.2004	19.35	0.45107	CU M/MI	883.75965	CU M
SP4		08.24.2004	19.4	0.44943	CU M/MI	885.9928	CU M
SP4		08.24.2004	19.45	0.00229	CU M/MI	886.18205	CU M
SP4		08.24.2004	19.5	0	CU M/MI	886.33345	CU M
SP4		08.24.2004	19.55	0	CU M/MI	887.5068	CU M
SP4		08.24.2004	20	0.48152	CU M/MI	887.84745	CU M
SP4		08.24.2004	20.05	0.02583	CU M/MI	889.73995	CU M
SP4		08.24.2004	20.1	0.45252	CU M/MI	891.1404	CU M
SP4		08.24.2004	20.15	0.38871	CU M/MI	892.76795	CU M
SP4		08.24.2004	20.2	0	CU M/MI	893.82775	CU M
SP4		08.24.2004	20.25	0.4542	CU M/MI	895.34175	CU M
SP4		08.24.2004	20.3	0.00328	CU M/MI	896.17445	CU M
SP4		08.24.2004	20.35	0.2748	CU M/MI	898.1048	CU M
SP4		08.24.2004	20.4	0.24513	CU M/MI	899.27815	CU M
SP4		08.24.2004	20.45	0.07128	CU M/MI	901.39775	CU M
SP4		08.24.2004	20.5	0.4863	CU M/MI	902.30615	CU M
SP4		08.24.2004	20.55	0	CU M/MI	903.6309	CU M
SP4		08.24.2004	21	0.45122	CU M/MI	905.2206	CU M
SP4		08.24.2004	21.05	0.45273	CU M/MI	906.0533	CU M
SP4		08.24.2004	21.1	0.38355	CU M/MI	907.7187	CU M
SP4		08.24.2004	21.15	0.45078	CU M/MI	909.64905	CU M
SP4		08.24.2004	21.2	0.48428	CU M/MI	910.4439	CU M
SP4		08.24.2004	21.25	0.21311	CU M/MI	911.84435	CU M
SP4		08.24.2004	21.3	0	CU M/MI	912.37425	CU M
SP4		08.24.2004	21.35	0.44971	CU M/MI	913.43405	CU M
SP4		08.24.2004	21.4	0.00151	CU M/MI	914.79665	CU M
SP4		08.24.2004	21.45	0.48386	CU M/MI	916.9541	CU M

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SP4		08.24.2004	21.5	0.00356	CU M/MI	917.90035	CU M
SP4		08.24.2004	21.55	0.4522	CU M/MI	920.01995	CU M
SP4		08.24.2004	22	0	CU M/MI	920.77695	CU M
SP4		08.24.2004	22.05	0	CU M/MI	922.29095	CU M
SP4		08.24.2004	22.1	0.45177	CU M/MI	924.03205	CU M
SP4		08.24.2004	22.15	0.42621	CU M/MI	924.297	CU M
SP4		08.24.2004	22.2	0.26295	CU M/MI	926.07595	CU M
SP4		08.24.2004	22.25	0	CU M/MI	926.4923	CU M
SP4		08.24.2004	22.3	0.00093	CU M/MI	927.96845	CU M
SP4		08.24.2004	22.35	0.00045	CU M/MI	929.10395	CU M
SP4		08.24.2004	22.4	0.18751	CU M/MI	929.25535	CU M
SP4		08.24.2004	22.45	0.16282	CU M/MI	929.5203	CU M
SP4		08.24.2004	22.5	0.48149	CU M/MI	930.2773	CU M
SP4		08.24.2004	22.55	0.48443	CU M/MI	932.6997	CU M
SP4		08.24.2004	23	0.33888	CU M/MI	934.9707	CU M
SP4		08.24.2004	23.05	0.01486	CU M/MI	937.05245	CU M
SP4		08.24.2004	23.1	0.25508	CU M/MI	937.88515	CU M
SP4		08.24.2004	23.15	0	CU M/MI	938.94495	CU M
SP4		08.24.2004	23.2	0.00159	CU M/MI	940.3454	CU M
SP4		08.24.2004	23.25	0.48462	CU M/MI	941.67015	CU M
SP4		08.24.2004	23.3	0.38469	CU M/MI	944.01685	CU M
SP4		08.24.2004	23.35	0.45236	CU M/MI	945.37945	CU M
SP4		08.24.2004	23.4	0	CU M/MI	946.36355	CU M
SP4		08.24.2004	23.45	0	CU M/MI	947.764	CU M
SP4		08.24.2004	23.5	0.38283	CU M/MI	949.1266	CU M
SP4		08.24.2004	23.55	0.25053	CU M/MI	950.1864	CU M
SP4		08.25.2004	0	0	CU M/MI	951.0191	CU M
SP4		08.25.2004	0.05	0	CU M/MI	952.49525	CU M
SP4		08.25.2004	0.1	0.45842	CU M/MI	954.61485	CU M
SP4		08.25.2004	0.15	0.33954	CU M/MI	956.7723	CU M
SP4		08.25.2004	0.2	0.00061	CU M/MI	956.96155	CU M
SP4		08.25.2004	0.25	0.47686	CU M/MI	958.17275	CU M
SP4		08.25.2004	0.3	0.45089	CU M/MI	960.51945	CU M
SP4		08.25.2004	0.35	0.44736	CU M/MI	960.9358	CU M
SP4		08.25.2004	0.4	0.07049	CU M/MI	963.1311	CU M
SP4		08.25.2004	0.45	0.48222	CU M/MI	964.00165	CU M
SP4		08.25.2004	0.5	0.36883	CU M/MI	966.34835	CU M
SP4		08.25.2004	0.55	0	CU M/MI	966.42405	CU M
SP4		08.25.2004	1	0.44991	CU M/MI	967.9002	CU M
SP4		08.25.2004	1.05	0.38205	CU M/MI	969.45205	CU M
SP4		08.25.2004	1.1	0.44939	CU M/MI	971.6852	CU M
SP4		08.25.2004	1.15	0.4197	CU M/MI	972.63145	CU M
SP4		08.25.2004	1.2	0.44896	CU M/MI	974.8646	CU M
SP4		08.25.2004	1.25	0	CU M/MI	975.05385	CU M
SP4		08.25.2004	1.3	0.1906	CU M/MI	976.18935	CU M
SP4		08.25.2004	1.35	0.48428	CU M/MI	977.8926	CU M
SP4		08.25.2004	1.4	0.27065	CU M/MI	979.21735	CU M
SP4		08.25.2004	1.45	0.48392	CU M/MI	981.1477	CU M
SP4		08.25.2004	1.5	0	CU M/MI	982.3589	CU M
SP4		08.25.2004	1.55	0.44965	CU M/MI	983.7215	CU M
SP4		08.25.2004	2	0.38233	CU M/MI	984.36495	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4		08.25.2004	2.05	0.44913	CU M/MI	986.48455	CU M
SP4		08.25.2004	2.1	0	CU M/MI	987.5822	CU M
SP4		08.25.2004	2.15	0.4466	CU M/MI	989.1719	CU M
SP4		08.25.2004	2.2	0.4789	CU M/MI	990.0046	CU M
SP4		08.25.2004	2.25	0.47964	CU M/MI	992.38915	CU M
SP4		08.25.2004	2.3	0	CU M/MI	993.44895	CU M
SP4		08.25.2004	2.35	0	CU M/MI	994.2438	CU M
SP4		08.25.2004	2.4	0.44456	CU M/MI	996.09845	CU M
SP4		08.25.2004	2.45	0	CU M/MI	997.1961	CU M
SP4		08.25.2004	2.5	0.18937	CU M/MI	998.7101	CU M
SP4		08.25.2004	2.55	0.18932	CU M/MI	999.65635	CU M
SP4		08.25.2004	3	0.15743	CU M/MI	1000.4512	CU M
SP4		08.25.2004	3.05	0.41219	CU M/MI	1002.68435	CU M
SP4		08.25.2004	3.1	0.44379	CU M/MI	1004.2362	CU M
SP4		08.25.2004	3.15	0.02522	CU M/MI	1006.3558	CU M
SP4		08.25.2004	3.2	0.32984	CU M/MI	1007.1885	CU M
SP4		08.25.2004	3.25	0	CU M/MI	1008.36185	CU M
SP4		08.25.2004	3.3	0.39866	CU M/MI	1010.02725	CU M
SP4		08.25.2004	3.35	0	CU M/MI	1011.31415	CU M
SP4		08.25.2004	3.4	0.41668	CU M/MI	1012.4875	CU M
SP4		08.25.2004	3.45	0	CU M/MI	1013.96365	CU M
SP4		08.25.2004	3.5	0.44172	CU M/MI	1014.79635	CU M
SP4		08.25.2004	3.55	0	CU M/MI	1016.61315	CU M
SP4		08.25.2004	4	0.47196	CU M/MI	1018.3921	CU M
SP4		08.25.2004	4.1	0	CU M/MI	1020.54955	CU M
SP4		08.25.2004	4.05	0.02359	CU M/MI	1020.62525	CU M
SP4		08.25.2004	4.15	0.47013	CU M/MI	1021.3444	CU M
SP4		08.25.2004	4.2	0.47016	CU M/MI	1023.6911	CU M
SP4		08.25.2004	4.25	0	CU M/MI	1024.78875	CU M
SP4		08.25.2004	4.3	0.42041	CU M/MI	1026.45415	CU M
SP4		08.25.2004	4.35	0.24475	CU M/MI	1027.8546	CU M
SP4		08.25.2004	4.55	0	CU M/MI	1028.8387	CU M
SP4		08.25.2004	5	0	CU M/MI	1028.8387	CU M
SP4		08.25.2004	4.45	0	CU M/MI	1028.87655	CU M
SP4		08.25.2004	4.5	0	CU M/MI	1028.87655	CU M
SP4		08.25.2004	4.4	0.02403	CU M/MI	1028.9144	CU M
SP4		08.25.2004	5.05	0.27186	CU M/MI	1028.95225	CU M
SP4		08.25.2004	5.1	0.26579	CU M/MI	1030.0499	CU M
SP4		08.25.2004	5.15	0	CU M/MI	1030.76905	CU M
SP4		08.25.2004	5.2	0	CU M/MI	1030.76905	CU M
SP4		08.25.2004	5.25	0	CU M/MI	1030.76905	CU M
SP4		08.25.2004	5.4	0	CU M/MI	1030.76905	CU M
SP4		08.25.2004	5.45	0.11009	CU M/MI	1030.76905	CU M
SP4		08.25.2004	5.3	0	CU M/MI	1030.8069	CU M
SP4		08.25.2004	5.35	0	CU M/MI	1030.8069	CU M
SP4		08.25.2004	5.5	0	CU M/MI	1031.4125	CU M
SP4		08.25.2004	5.55	0	CU M/MI	1031.4125	CU M
SP4		08.25.2004	6	0	CU M/MI	1031.4125	CU M
SP4		08.25.2004	6.05	0	CU M/MI	1031.4125	CU M
SP4		08.25.2004	6.1	0	CU M/MI	1031.4125	CU M
SP4		08.25.2004	6.15	0	CU M/MI	1031.4125	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4		08.25.2004	6.2	0	CU M/MI	1031.4125	CU M
SP4		08.25.2004	6.25	0	CU M/MI	1031.4125	CU M
SP4		08.25.2004	6.3	0.18153	CU M/MI	1031.8667	CU M
SP4		08.25.2004	6.35	0.1175	CU M/MI	1032.43445	CU M
SP4		08.25.2004	6.4	0	CU M/MI	1032.88865	CU M
SP4		08.25.2004	6.45	0	CU M/MI	1032.88865	CU M
SP4		08.25.2004	6.5	0.26961	CU M/MI	1033.94845	CU M
SP4		08.25.2004	7.2	0	CU M/MI	1034.4405	CU M
SP4		08.25.2004	7.25	0	CU M/MI	1034.4405	CU M
SP4		08.25.2004	7.3	0.00459	CU M/MI	1034.4405	CU M
SP4		08.25.2004	7.35	0.00015	CU M/MI	1034.4405	CU M
SP4		08.25.2004	7.4	0	CU M/MI	1034.4405	CU M
SP4		08.25.2004	6.55	0.00105	CU M/MI	1034.47835	CU M
SP4		08.25.2004	7	0.00165	CU M/MI	1034.47835	CU M
SP4		08.25.2004	7.1	0	CU M/MI	1034.47835	CU M
SP4		08.25.2004	7.15	0	CU M/MI	1034.47835	CU M
SP4		08.25.2004	7.05	0.00278	CU M/MI	1034.5162	CU M
SP4		08.25.2004	7.45	0	CU M/MI	1034.819	CU M
SP4		08.25.2004	7.5	0.44944	CU M/MI	1035.7274	CU M
SP4		08.25.2004	7.55	0.44677	CU M/MI	1037.9227	CU M
SP4		08.25.2004	8	0	CU M/MI	1039.55025	CU M
SP4		08.25.2004	8.05	0.26171	CU M/MI	1039.92875	CU M
SP4		08.25.2004	8.1	0.4916	CU M/MI	1041.06425	CU M
SP4		08.25.2004	8.15	0.49297	CU M/MI	1042.42685	CU M
SP4		08.25.2004	8.2	0.37209	CU M/MI	1044.8871	CU M
SP4		08.25.2004	8.25	0	CU M/MI	1045.60625	CU M
SP4		08.25.2004	8.3	0	CU M/MI	1045.60625	CU M
SP4		08.25.2004	8.35	0	CU M/MI	1045.60625	CU M
SP4		08.25.2004	8.4	0	CU M/MI	1046.174	CU M
SP4		08.25.2004	8.45	0.37931	CU M/MI	1048.1422	CU M
SP4		08.25.2004	8.5	0.50031	CU M/MI	1050.3375	CU M
SP4		08.25.2004	8.55	0.39474	CU M/MI	1052.5328	CU M
SP4		08.25.2004	9	0.49456	CU M/MI	1054.7281	CU M
SP4		08.25.2004	9.05	0.26031	CU M/MI	1056.35565	CU M
SP4		08.25.2004	9.1	0.01386	CU M/MI	1057.33975	CU M
SP4		08.25.2004	9.15	0	CU M/MI	1058.32385	CU M
SP4		08.25.2004	9.2	0.17874	CU M/MI	1060.29205	CU M
SP4		08.25.2004	9.25	0.46448	CU M/MI	1061.314	CU M
SP4		08.25.2004	9.3	0	CU M/MI	1061.65465	CU M
SP4		08.25.2004	9.35	0	CU M/MI	1063.62285	CU M
SP4		08.25.2004	9.4	0	CU M/MI	1063.62285	CU M
SP4		08.25.2004	9.45	0	CU M/MI	1063.62285	CU M
SP4		08.25.2004	9.5	0	CU M/MI	1063.62285	CU M
SP4		08.25.2004	9.55	0.36246	CU M/MI	1063.69855	CU M
SP4		08.25.2004	10	0	CU M/MI	1065.36395	CU M
SP4		08.25.2004	10.05	0.49498	CU M/MI	1066.19665	CU M
SP4		08.25.2004	10.1	0.35289	CU M/MI	1068.54335	CU M
SP4		08.25.2004	10.15	0.25758	CU M/MI	1070.81435	CU M
SP4		08.25.2004	10.2	0.46161	CU M/MI	1072.2905	CU M
SP4		08.25.2004	10.25	0.02214	CU M/MI	1073.00965	CU M
SP4		08.25.2004	10.3	0.49423	CU M/MI	1075.28065	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4		08.25.2004	10.35	0.01845	CU M/MI	1076.03765	CU M
SP4		08.25.2004	10.4	0.45841	CU M/MI	1077.2867	CU M
SP4		08.25.2004	10.45	0.25957	CU M/MI	1079.06565	CU M
SP4		08.25.2004	10.5	0.21114	CU M/MI	1080.04975	CU M
SP4		08.25.2004	10.55	0	CU M/MI	1080.3904	CU M
SP4		08.25.2004	11	0.05191	CU M/MI	1080.7689	CU M
SP4		08.25.2004	11.05	0	CU M/MI	1080.9203	CU M
SP4		08.25.2004	11.1	0	CU M/MI	1080.9203	CU M
SP4		08.25.2004	11.15	0.49067	CU M/MI	1081.18525	CU M
SP4		08.25.2004	11.2	0.49306	CU M/MI	1083.45625	CU M
SP4		08.25.2004	11.25	0.49342	CU M/MI	1085.6894	CU M
SP4		08.25.2004	11.3	0.49179	CU M/MI	1088.1875	CU M
SP4		08.25.2004	11.35	0.49182	CU M/MI	1090.64775	CU M
SP4		08.25.2004	11.4	0	CU M/MI	1092.7295	CU M
SP4		08.25.2004	11.45	0.24813	CU M/MI	1093.67575	CU M
SP4		08.25.2004	11.5	0.46161	CU M/MI	1095.0762	CU M
SP4		08.25.2004	11.55	0.458	CU M/MI	1095.9089	CU M
SP4		08.25.2004	12	0.39068	CU M/MI	1097.3472	CU M
SP4		08.25.2004	12.05	0.45451	CU M/MI	1099.3911	CU M
SP4		08.25.2004	12.1	0.45774	CU M/MI	1100.26165	CU M
SP4		08.25.2004	12.15	0.00733	CU M/MI	1101.92705	CU M
SP4		08.25.2004	12.2	0.00919	CU M/MI	1101.9649	CU M
SP4		08.25.2004	12.25	0.0107	CU M/MI	1102.00275	CU M
SP4		08.25.2004	12.3	0.49097	CU M/MI	1103.66815	CU M
SP4		08.25.2004	12.35	0.29607	CU M/MI	1105.9013	CU M
SP4		08.25.2004	12.4	0	CU M/MI	1106.69615	CU M
SP4		08.25.2004	12.45	0.49146	CU M/MI	1108.66435	CU M
SP4		08.25.2004	12.5	0	CU M/MI	1110.70825	CU M
SP4		08.25.2004	12.55	0.45926	CU M/MI	1111.0489	CU M
SP4		08.25.2004	13	0.45763	CU M/MI	1113.35775	CU M
SP4		08.25.2004	13.05	0.49262	CU M/MI	1114.72035	CU M
SP4		08.25.2004	13.1	0.27413	CU M/MI	1116.38575	CU M
SP4		08.25.2004	13.15	0.25777	CU M/MI	1117.9376	CU M
SP4		08.25.2004	13.2	0.24662	CU M/MI	1119.03525	CU M
SP4		08.25.2004	13.25	0.24794	CU M/MI	1119.48945	CU M
SP4		08.25.2004	13.3	0.02839	CU M/MI	1121.0413	CU M
SP4		08.25.2004	13.35	0.49321	CU M/MI	1122.631	CU M
SP4		08.25.2004	13.4	0.02038	CU M/MI	1124.2207	CU M
SP4		08.25.2004	13.45	0.38788	CU M/MI	1124.6749	CU M
SP4		08.25.2004	13.5	0.45727	CU M/MI	1126.9459	CU M
SP4		08.25.2004	13.55	0.03084	CU M/MI	1128.7627	CU M
SP4		08.25.2004	14	0.12932	CU M/MI	1129.10335	CU M
SP4		08.25.2004	14.05	0.25866	CU M/MI	1130.958	CU M
SP4		08.25.2004	14.1	0.02048	CU M/MI	1132.3206	CU M
SP4		08.25.2004	14.15	0.38036	CU M/MI	1133.19115	CU M
SP4		08.25.2004	14.2	0	CU M/MI	1133.64535	CU M
SP4		08.25.2004	14.25	0.49141	CU M/MI	1134.4402	CU M
SP4		08.25.2004	14.3	0.46897	CU M/MI	1136.90045	CU M
SP4		08.25.2004	14.35	0.27301	CU M/MI	1138.18735	CU M
SP4		08.25.2004	16.15	0	CU M/MI	1164.7202	CU M
SP4		08.25.2004	16.2	0.43385	CU M/MI	1164.7202	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4		08.25.2004	16.25	0.48711	CU M/MI	1166.9912	CU M
SP4		08.25.2004	16.3	0.3869	CU M/MI	1169.3379	CU M
SP4		08.25.2004	16.35	0	CU M/MI	1169.37575	CU M
SP4		08.25.2004	16.4	0.45363	CU M/MI	1171.3818	CU M
SP4		08.25.2004	16.45	0.00064	CU M/MI	1172.593	CU M
SP4		08.25.2004	16.5	0.00813	CU M/MI	1174.1827	CU M
SP4		08.25.2004	16.55	0	CU M/MI	1175.50745	CU M
SP4		08.25.2004	17	0.3441	CU M/MI	1177.3621	CU M
SP4		08.25.2004	17.05	0.00183	CU M/MI	1178.08125	CU M
SP4		08.25.2004	17.1	0.27134	CU M/MI	1178.98965	CU M
SP4		08.25.2004	17.15	0.49117	CU M/MI	1180.0873	CU M
SP4		08.25.2004	17.2	0.48544	CU M/MI	1182.54755	CU M
SP4		08.25.2004	17.25	0	CU M/MI	1183.7209	CU M
SP4		08.25.2004	17.3	0.38489	CU M/MI	1184.0237	CU M
SP4		08.25.2004	17.35	0.48461	CU M/MI	1186.3704	CU M
SP4		08.25.2004	17.4	0.45066	CU M/MI	1188.4143	CU M
SP4		08.25.2004	17.45	0	CU M/MI	1188.75495	CU M
SP4		08.25.2004	17.5	0.34238	CU M/MI	1189.3984	CU M
SP4		08.25.2004	17.55	0.19521	CU M/MI	1190.9124	CU M
SP4		08.25.2004	18	0	CU M/MI	1191.8208	CU M
SP4		08.25.2004	18.05	0.48802	CU M/MI	1193.5619	CU M
SP4		08.25.2004	18.1	0.06332	CU M/MI	1195.64365	CU M
SP4		08.25.2004	18.15	0.45356	CU M/MI	1196.5899	CU M
SP4		08.25.2004	18.2	0.38286	CU M/MI	1197.7254	CU M
SP4		08.25.2004	18.25	0.45583	CU M/MI	1200.0721	CU M
SP4		08.25.2004	18.3	0.26993	CU M/MI	1201.62395	CU M
SP4		08.25.2004	18.35	0.25013	CU M/MI	1202.0403	CU M
SP4		08.25.2004	18.4	0	CU M/MI	1202.7973	CU M
SP4		08.25.2004	18.45	0.48752	CU M/MI	1203.63	CU M
SP4		08.25.2004	18.5	0.34448	CU M/MI	1205.5982	CU M
SP4		08.25.2004	18.55	0.01271	CU M/MI	1205.86315	CU M
SP4		08.25.2004	19	0	CU M/MI	1206.3552	CU M
SP4		08.25.2004	19.05	0.49035	CU M/MI	1208.7776	CU M
SP4		08.25.2004	19.1	0.13673	CU M/MI	1210.5187	CU M
SP4		08.25.2004	19.15	0.45541	CU M/MI	1211.957	CU M
SP4		08.25.2004	19.2	0.03823	CU M/MI	1212.60045	CU M
SP4		08.25.2004	19.25	0.0323	CU M/MI	1214.0766	CU M
SP4		08.25.2004	19.3	0.00183	CU M/MI	1214.49295	CU M
SP4		08.25.2004	19.35	0.49264	CU M/MI	1216.7261	CU M
SP4		08.25.2004	19.4	0.44971	CU M/MI	1218.77	CU M
SP4		08.25.2004	19.45	0.02854	CU M/MI	1219.9812	CU M
SP4		08.25.2004	19.5	0.45832	CU M/MI	1221.2681	CU M
SP4		08.25.2004	19.55	0.02318	CU M/MI	1222.29005	CU M
SP4		08.25.2004	20	0.27657	CU M/MI	1224.03115	CU M
SP4		08.25.2004	20.05	0.35509	CU M/MI	1225.46945	CU M
SP4		08.25.2004	20.1	0.15907	CU M/MI	1226.5671	CU M
SP4		08.25.2004	20.15	0.16857	CU M/MI	1227.2484	CU M
SP4		08.25.2004	20.2	0.49081	CU M/MI	1229.33015	CU M
SP4		08.25.2004	20.25	0.03419	CU M/MI	1231.29835	CU M
SP4		08.25.2004	20.3	0.49228	CU M/MI	1232.28245	CU M
SP4		08.25.2004	20.35	0	CU M/MI	1234.47775	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4		08.25.2004	20.4	0.0053	CU M/MI	1234.5156	CU M
SP4		08.25.2004	20.45	0.49258	CU M/MI	1236.29455	CU M
SP4		08.25.2004	20.5	0.45903	CU M/MI	1238.64125	CU M
SP4		08.25.2004	20.55	0.1677	CU M/MI	1239.01975	CU M
SP4		08.25.2004	21	0.26013	CU M/MI	1239.70105	CU M
SP4		08.25.2004	21.05	0.27734	CU M/MI	1240.3445	CU M
SP4		08.25.2004	21.1	0.49123	CU M/MI	1242.4641	CU M
SP4		08.25.2004	21.15	0.01856	CU M/MI	1244.01595	CU M
SP4		08.25.2004	21.2	0.45641	CU M/MI	1245.3407	CU M
SP4		08.25.2004	21.25	0.45694	CU M/MI	1246.28695	CU M
SP4		08.25.2004	21.3	0.3785	CU M/MI	1247.72525	CU M
SP4		08.25.2004	21.35	0.05025	CU M/MI	1249.61775	CU M
SP4		08.25.2004	21.4	0.45809	CU M/MI	1250.37475	CU M
SP4		08.25.2004	21.45	0.26893	CU M/MI	1252.26725	CU M
SP4		08.25.2004	21.5	0	CU M/MI	1252.94855	CU M
SP4		08.25.2004	21.55	0.45666	CU M/MI	1254.5004	CU M
SP4		08.25.2004	22	0.01578	CU M/MI	1256.12795	CU M
SP4		08.25.2004	22.05	0.26533	CU M/MI	1257.4527	CU M
SP4		08.25.2004	22.1	0.45526	CU M/MI	1258.5882	CU M
SP4		08.25.2004	22.15	0.45718	CU M/MI	1260.8592	CU M
SP4		08.25.2004	22.2	0.34671	CU M/MI	1261.50265	CU M
SP4		08.25.2004	22.25	0.01958	CU M/MI	1262.6003	CU M
SP4		08.25.2004	22.3	0	CU M/MI	1262.9788	CU M
SP4		08.25.2004	22.35	0	CU M/MI	1264.98485	CU M
SP4		08.25.2004	22.45	0.0019	CU M/MI	1267.1423	CU M
SP4		08.25.2004	22.4	0	CU M/MI	1267.18015	CU M
SP4		08.25.2004	22.5	0.49276	CU M/MI	1268.23995	CU M
SP4		08.25.2004	22.55	0.49105	CU M/MI	1270.7002	CU M
SP4		08.25.2004	23	0.38808	CU M/MI	1272.0628	CU M
SP4		08.25.2004	23.05	0.45661	CU M/MI	1273.1226	CU M
SP4		08.25.2004	23.1	0.45829	CU M/MI	1275.1665	CU M
SP4		08.25.2004	23.15	0.18682	CU M/MI	1275.88565	CU M
SP4		08.25.2004	23.2	0.15187	CU M/MI	1276.41555	CU M
SP4		08.25.2004	23.25	0.17018	CU M/MI	1277.09685	CU M
SP4		08.25.2004	23.3	0.49267	CU M/MI	1278.1188	CU M
SP4		08.25.2004	23.35	0.37666	CU M/MI	1280.3898	CU M
SP4		08.25.2004	23.4	0.39392	CU M/MI	1282.77435	CU M
SP4		08.25.2004	23.45	0.45634	CU M/MI	1284.2505	CU M
SP4		08.25.2004	23.5	0	CU M/MI	1285.12105	CU M
SP4		08.25.2004	23.55	0.29087	CU M/MI	1285.9916	CU M
SP4		08.26.2004	0	0.24421	CU M/MI	1287.5056	CU M
SP4		08.26.2004	0.05	0.3545	CU M/MI	1288.83035	CU M
SP4		08.26.2004	0.1	0.02233	CU M/MI	1290.6093	CU M
SP4		08.26.2004	0.15	0.39351	CU M/MI	1291.32845	CU M
SP4		08.26.2004	0.2	0.46203	CU M/MI	1293.59945	CU M
SP4		08.26.2004	0.25	0.02823	CU M/MI	1294.73495	CU M
SP4		08.26.2004	0.3	0.02763	CU M/MI	1295.71905	CU M
SP4		08.26.2004	0.35	0.46228	CU M/MI	1296.77885	CU M
SP4		08.26.2004	0.4	0.02836	CU M/MI	1298.59565	CU M
SP4		08.26.2004	0.45	0.42525	CU M/MI	1300.63955	CU M
SP4		08.26.2004	0.5	0.42035	CU M/MI	1300.9045	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4		08.26.2004	0.55	0.45963	CU M/MI	1303.1755	CU M
SP4		08.26.2004	1	0.45475	CU M/MI	1303.9325	CU M
SP4		08.26.2004	1.05	0.00893	CU M/MI	1305.40865	CU M
SP4		08.26.2004	1.1	0.34947	CU M/MI	1306.8091	CU M
SP4		08.26.2004	1.15	0.01842	CU M/MI	1308.3231	CU M
SP4		08.26.2004	1.2	0.45766	CU M/MI	1310.02635	CU M
SP4		08.26.2004	1.25	0.01166	CU M/MI	1310.63195	CU M
SP4		08.26.2004	1.3	0.49076	CU M/MI	1312.3352	CU M
SP4		08.26.2004	1.35	0.17454	CU M/MI	1314.41695	CU M
SP4		08.26.2004	1.4	0.25761	CU M/MI	1315.02255	CU M
SP4		08.26.2004	1.45	0.02525	CU M/MI	1316.3473	CU M
SP4		08.26.2004	1.5	0.45756	CU M/MI	1318.42905	CU M
SP4		08.26.2004	1.55	0.00973	CU M/MI	1319.2239	CU M
SP4		08.26.2004	2	0.27121	CU M/MI	1320.5865	CU M
SP4		08.26.2004	2.05	0.45523	CU M/MI	1322.21405	CU M
SP4		08.26.2004	2.1	0.31546	CU M/MI	1324.48505	CU M
SP4		08.26.2004	2.15	0.34209	CU M/MI	1325.3556	CU M
SP4		08.26.2004	2.2	0.00214	CU M/MI	1325.69625	CU M
SP4		08.26.2004	2.25	0.48715	CU M/MI	1327.43735	CU M
SP4		08.26.2004	2.3	0.45474	CU M/MI	1329.8219	CU M
SP4		08.26.2004	2.35	0	CU M/MI	1330.61675	CU M
SP4		08.26.2004	2.4	0.2622	CU M/MI	1331.07095	CU M
SP4		08.26.2004	2.45	0.44569	CU M/MI	1332.66065	CU M
SP4		08.26.2004	2.5	0.45998	CU M/MI	1334.8938	CU M
SP4		08.26.2004	2.55	0.38456	CU M/MI	1335.99145	CU M
SP4		08.26.2004	3	0.44567	CU M/MI	1337.619	CU M
SP4		08.26.2004	3.05	0.4513	CU M/MI	1339.89	CU M
SP4		08.26.2004	3.1	0.25485	CU M/MI	1340.53345	CU M
SP4		08.26.2004	3.15	0.00369	CU M/MI	1341.82035	CU M
SP4		08.26.2004	3.2	0.45078	CU M/MI	1343.71285	CU M
SP4		08.26.2004	3.25	0	CU M/MI	1344.31845	CU M
SP4		08.26.2004	3.3	0	CU M/MI	1345.4918	CU M
SP4		08.26.2004	3.35	0.48301	CU M/MI	1346.43805	CU M
SP4		08.26.2004	3.4	0.48102	CU M/MI	1348.86045	CU M
SP4		08.26.2004	3.45	0.42702	CU M/MI	1349.76885	CU M
SP4		08.26.2004	3.5	0.26963	CU M/MI	1351.3207	CU M
SP4		08.26.2004	3.55	0.45051	CU M/MI	1352.87255	CU M
SP4		08.26.2004	4	0	CU M/MI	1354.38655	CU M
SP4		08.26.2004	4.05	0	CU M/MI	1355.5599	CU M
SP4		08.26.2004	4.1	0.43461	CU M/MI	1355.59775	CU M
SP4		08.26.2004	4.15	0.4469	CU M/MI	1357.8309	CU M
SP4		08.26.2004	4.2	0.20719	CU M/MI	1359.3449	CU M
SP4		08.26.2004	4.25	0.19034	CU M/MI	1360.2533	CU M
SP4		08.26.2004	4.3	0.38005	CU M/MI	1361.3888	CU M
SP4		08.26.2004	4.35	0	CU M/MI	1362.94065	CU M
SP4		08.26.2004	4.4	0.4502	CU M/MI	1364.68175	CU M
SP4		08.26.2004	4.45	0.38239	CU M/MI	1366.19575	CU M
SP4		08.26.2004	4.5	0.41442	CU M/MI	1367.2177	CU M
SP4		08.26.2004	4.55	0	CU M/MI	1368.69385	CU M
SP4		08.26.2004	5	0.36832	CU M/MI	1369.8672	CU M
SP4		08.26.2004	5.05	0.3583	CU M/MI	1370.8513	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4		08.26.2004	5.1	0.44737	CU M/MI	1373.08445	CU M
SP4		08.26.2004	5.15	0.41464	CU M/MI	1373.61435	CU M
SP4		08.26.2004	5.2	0	CU M/MI	1374.8634	CU M
SP4		08.26.2004	5.25	0.44442	CU M/MI	1376.56665	CU M
SP4		08.26.2004	5.3	0	CU M/MI	1378.08065	CU M
SP4		08.26.2004	5.35	0.37754	CU M/MI	1380.0867	CU M
SP4		08.26.2004	5.4	0	CU M/MI	1380.95725	CU M
SP4		08.26.2004	5.45	0.09603	CU M/MI	1382.47125	CU M
SP4		08.26.2004	5.5	0.44462	CU M/MI	1383.60675	CU M
SP4		08.26.2004	5.55	0.07398	CU M/MI	1385.80205	CU M
SP4		08.26.2004	6	0.23331	CU M/MI	1386.40765	CU M
SP4		08.26.2004	6.05	0.44413	CU M/MI	1387.9595	CU M
SP4		08.26.2004	6.1	0.47495	CU M/MI	1388.90575	CU M
SP4		08.26.2004	6.15	0.22835	CU M/MI	1390.6847	CU M
SP4		08.26.2004	6.2	0.36423	CU M/MI	1391.40385	CU M
SP4		08.26.2004	6.25	0.44276	CU M/MI	1393.37205	CU M
SP4		08.26.2004	6.3	0	CU M/MI	1394.8482	CU M
SP4		08.26.2004	6.35	0.00048	CU M/MI	1395.79445	CU M
SP4		08.26.2004	6.4	0.44425	CU M/MI	1397.00565	CU M
SP4		08.26.2004	6.45	0	CU M/MI	1398.6332	CU M
SP4		08.26.2004	6.5	0.25056	CU M/MI	1399.27665	CU M
SP4		08.26.2004	6.55	0.26384	CU M/MI	1400.10935	CU M
SP4		08.26.2004	7	0.48204	CU M/MI	1402.00185	CU M
SP4		08.26.2004	7.05	0.47797	CU M/MI	1404.42425	CU M
SP4		08.26.2004	7.15	0	CU M/MI	1405.2191	CU M
SP4		08.26.2004	7.1	0	CU M/MI	1405.25695	CU M
SP4		08.26.2004	7.2	0.48079	CU M/MI	1407.60365	CU M
SP4		08.26.2004	7.25	0.17326	CU M/MI	1409.64755	CU M
SP4		08.26.2004	7.3	0.10757	CU M/MI	1410.2153	CU M
SP4		08.26.2004	7.35	0.1702	CU M/MI	1411.16155	CU M
SP4		08.26.2004	7.4	0.5448	CU M/MI	1413.0162	CU M
SP4		08.26.2004	7.45	0.25783	CU M/MI	1414.2274	CU M
SP4		08.26.2004	7.5	0.38408	CU M/MI	1415.77925	CU M
SP4		08.26.2004	7.55	0.45167	CU M/MI	1416.99045	CU M
SP4		08.26.2004	8	0	CU M/MI	1418.6937	CU M
SP4		08.26.2004	8.05	0	CU M/MI	1419.11005	CU M
SP4		08.26.2004	8.1	0.4838	CU M/MI	1419.6778	CU M
SP4		08.26.2004	8.15	0.00252	CU M/MI	1421.0404	CU M
SP4		08.26.2004	8.2	0.45113	CU M/MI	1422.7815	CU M
SP4		08.26.2004	8.25	0	CU M/MI	1424.03055	CU M
SP4		08.26.2004	8.3	0.45377	CU M/MI	1425.2796	CU M
SP4		08.26.2004	8.35	0	CU M/MI	1426.4908	CU M
SP4		08.26.2004	8.4	0.48557	CU M/MI	1428.26975	CU M
SP4		08.26.2004	8.45	0	CU M/MI	1428.6861	CU M
SP4		08.26.2004	8.5	0.27954	CU M/MI	1429.78375	CU M
SP4		08.26.2004	8.55	0	CU M/MI	1430.38935	CU M
SP4		08.26.2004	9	0.48951	CU M/MI	1431.90335	CU M
SP4		08.26.2004	9.05	0.27707	CU M/MI	1433.758	CU M
SP4		08.26.2004	9.1	0.18153	CU M/MI	1434.40145	CU M
SP4		08.26.2004	9.15	0.17829	CU M/MI	1435.30985	CU M
SP4		08.26.2004	9.2	0	CU M/MI	1436.14255	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4		08.26.2004	9.25	0.49201	CU M/MI	1437.7701	CU M
SP4		08.26.2004	9.3	0.48601	CU M/MI	1439.8897	CU M
SP4		08.26.2004	9.35	0.45569	CU M/MI	1442.19855	CU M
SP4		08.26.2004	9.4	0.01265	CU M/MI	1443.599	CU M
SP4		08.26.2004	9.45	0.26529	CU M/MI	1443.86395	CU M
SP4		08.26.2004	9.5	0	CU M/MI	1444.4317	CU M
SP4		08.26.2004	9.55	0.45504	CU M/MI	1446.21065	CU M
SP4		08.26.2004	10	0.38895	CU M/MI	1447.3083	CU M
SP4		08.26.2004	10.05	0.37883	CU M/MI	1448.5195	CU M
SP4		08.26.2004	10.1	0.24818	CU M/MI	1449.39005	CU M
SP4		08.26.2004	10.15	0.0048	CU M/MI	1449.76855	CU M
SP4		08.26.2004	10.2	0.31097	CU M/MI	1451.13115	CU M
SP4		08.26.2004	10.25	0.1579	CU M/MI	1452.34235	CU M
SP4		08.26.2004	10.3	0.49359	CU M/MI	1454.197	CU M
SP4		08.26.2004	10.45	0.34993	CU M/MI	1458.77685	CU M
SP4		08.26.2004	10.5	0.45902	CU M/MI	1459.5717	CU M
SP4		08.26.2004	10.55	0.4566	CU M/MI	1460.5558	CU M
SP4		08.26.2004	11	0.22296	CU M/MI	1462.0698	CU M
SP4		08.26.2004	11.05	0.34971	CU M/MI	1462.9782	CU M
SP4		08.26.2004	11.1	0.01484	CU M/MI	1464.37865	CU M
SP4		08.26.2004	11.15	0.06113	CU M/MI	1466.2333	CU M
SP4		08.26.2004	11.2	0.02812	CU M/MI	1466.3847	CU M
SP4		08.26.2004	11.25	0.37141	CU M/MI	1467.6716	CU M
SP4		08.26.2004	11.3	0.18648	CU M/MI	1469.60195	CU M
SP4		08.26.2004	11.35	0.18823	CU M/MI	1470.51035	CU M
SP4		08.26.2004	11.4	0.18383	CU M/MI	1471.41875	CU M
SP4		08.26.2004	11.45	0	CU M/MI	1472.17575	CU M
SP4		08.26.2004	11.5	0	CU M/MI	1472.17575	CU M
SP4		08.26.2004	11.55	0.49063	CU M/MI	1474.59815	CU M
SP4		08.26.2004	12	0.26099	CU M/MI	1476.6799	CU M
SP4		08.26.2004	12.05	0.25712	CU M/MI	1477.8154	CU M
SP4		08.26.2004	12.1	0.05431	CU M/MI	1479.67005	CU M
SP4		08.26.2004	12.15	0.45795	CU M/MI	1481.03265	CU M
SP4		08.26.2004	12.2	0.03906	CU M/MI	1482.8873	CU M
SP4		08.26.2004	12.25	0.38544	CU M/MI	1483.68215	CU M
SP4		08.26.2004	12.3	0.25287	CU M/MI	1484.477	CU M
SP4		08.26.2004	12.35	0.24636	CU M/MI	1485.19615	CU M
SP4		08.26.2004	12.4	0.05044	CU M/MI	1486.71015	CU M
SP4		08.26.2004	12.45	0.34384	CU M/MI	1488.3377	CU M
SP4		08.26.2004	12.5	0.06913	CU M/MI	1490.1545	CU M
SP4		08.26.2004	12.55	0.45776	CU M/MI	1490.72225	CU M
SP4		08.26.2004	13	0.27817	CU M/MI	1492.2741	CU M
SP4		08.26.2004	13.05	0.45801	CU M/MI	1493.75025	CU M
SP4		08.26.2004	13.1	0.02509	CU M/MI	1495.075	CU M
SP4		08.26.2004	13.15	0.25658	CU M/MI	1496.24835	CU M
SP4		08.26.2004	13.2	0.43144	CU M/MI	1497.30815	CU M
SP4		08.26.2004	13.25	0.35085	CU M/MI	1499.5413	CU M
SP4		08.26.2004	13.3	0.45376	CU M/MI	1500.0712	CU M
SP4		08.26.2004	13.35	0.38079	CU M/MI	1501.24455	CU M
SP4		08.26.2004	13.4	0.45859	CU M/MI	1503.0992	CU M
SP4		08.26.2004	13.45	0	CU M/MI	1504.6132	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4		08.26.2004	13.5	0.26051	CU M/MI	1506.24075	CU M
SP4		08.26.2004	13.55	0.01255	CU M/MI	1506.5057	CU M
SP4		08.26.2004	14	0.26759	CU M/MI	1507.45195	CU M
SP4		08.26.2004	14.05	0.34691	CU M/MI	1509.5337	CU M
SP4		08.26.2004	14.1	0.01442	CU M/MI	1511.31265	CU M
SP4		08.26.2004	14.15	0.3856	CU M/MI	1512.22105	CU M
SP4		08.26.2004	14.2	0.17487	CU M/MI	1513.243	CU M
SP4		08.26.2004	14.25	0.10215	CU M/MI	1514	CU M
SP4		08.26.2004	14.3	0.38613	CU M/MI	1515.02195	CU M
SP4		08.26.2004	14.35	0.45746	CU M/MI	1517.2551	CU M
SP4		08.26.2004	14.4	0.29749	CU M/MI	1519.5261	CU M
SP4		08.26.2004	14.45	0	CU M/MI	1520.39665	CU M
SP4		08.26.2004	14.5	0.37258	CU M/MI	1520.5859	CU M
SP4		08.26.2004	14.55	0.24227	CU M/MI	1521.9485	CU M
SP4		08.26.2004	15	0	CU M/MI	1523.0083	CU M
SP4		08.26.2004	15.05	0.00126	CU M/MI	1525.2793	CU M
SP4		08.26.2004	15.1	0.01931	CU M/MI	1526.112	CU M
SP4		08.26.2004	15.15	0.38759	CU M/MI	1527.1718	CU M
SP4		08.26.2004	15.2	0.45669	CU M/MI	1529.40495	CU M
SP4		08.26.2004	15.25	0	CU M/MI	1531.22175	CU M
SP4		08.26.2004	15.3	0.45521	CU M/MI	1532.0923	CU M
SP4		08.26.2004	15.35	0.45686	CU M/MI	1533.87125	CU M
SP4		08.26.2004	15.4	0.32725	CU M/MI	1535.15815	CU M
SP4		08.26.2004	15.45	0	CU M/MI	1535.5745	CU M
SP4		08.26.2004	15.5	0.46035	CU M/MI	1536.6343	CU M
SP4		08.26.2004	15.55	0.02106	CU M/MI	1538.33755	CU M
SP4		08.26.2004	16	0.44794	CU M/MI	1539.8137	CU M
SP4		08.26.2004	16.05	0.02249	CU M/MI	1540.45715	CU M
SP4		08.26.2004	16.1	0.44856	CU M/MI	1542.04685	CU M
SP4		08.26.2004	16.15	0.45677	CU M/MI	1543.86365	CU M
SP4		08.26.2004	16.2	0.25928	CU M/MI	1544.77205	CU M
SP4		08.26.2004	16.25	0.03307	CU M/MI	1546.1725	CU M
SP4		08.26.2004	16.3	0.45943	CU M/MI	1546.8538	CU M
SP4		08.26.2004	16.35	0.25798	CU M/MI	1548.85985	CU M
SP4		08.26.2004	16.4	0.22499	CU M/MI	1549.7304	CU M
SP4		08.26.2004	16.45	0.47252	CU M/MI	1550.90375	CU M
SP4		08.26.2004	16.5	0.04069	CU M/MI	1552.7584	CU M
SP4		08.26.2004	16.55	0.45685	CU M/MI	1554.5752	CU M
SP4		08.26.2004	17	0.38788	CU M/MI	1555.4079	CU M
SP4		08.26.2004	17.05	0	CU M/MI	1556.95975	CU M
SP4		08.26.2004	17.1	0.03845	CU M/MI	1558.54945	CU M
SP4		08.26.2004	17.15	0.32046	CU M/MI	1559.38215	CU M
SP4		08.26.2004	17.2	0.18778	CU M/MI	1560.44195	CU M
SP4		08.26.2004	17.25	0.46225	CU M/MI	1561.42605	CU M
SP4		08.26.2004	17.3	0.0318	CU M/MI	1562.9022	CU M
SP4		08.26.2004	17.35	0.27551	CU M/MI	1564.1891	CU M
SP4		08.26.2004	17.4	0.24264	CU M/MI	1565.28675	CU M
SP4		08.26.2004	17.45	0.26166	CU M/MI	1566.34655	CU M
SP4		08.26.2004	17.5	0.49598	CU M/MI	1568.2012	CU M
SP4		08.26.2004	17.55	0.04184	CU M/MI	1569.75305	CU M
SP4		08.26.2004	18	0.39028	CU M/MI	1571.94835	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4		08.26.2004	18.05	0.0652	CU M/MI	1573.1974	CU M
SP4		08.26.2004	18.1	0.45538	CU M/MI	1573.68945	CU M
SP4		08.26.2004	18.15	0.2596	CU M/MI	1575.1656	CU M
SP4		08.26.2004	18.2	0.26019	CU M/MI	1576.4525	CU M
SP4		08.26.2004	18.25	0.17327	CU M/MI	1577.32305	CU M
SP4		08.26.2004	18.3	0.3472	CU M/MI	1578.2693	CU M
SP4		08.26.2004	18.35	0	CU M/MI	1579.102	CU M
SP4		08.26.2004	18.4	0.45917	CU M/MI	1581.1459	CU M
SP4		08.26.2004	18.45	0.34721	CU M/MI	1582.47065	CU M
SP4		08.26.2004	18.5	0.02063	CU M/MI	1584.0225	CU M
SP4		08.26.2004	18.55	0.30957	CU M/MI	1585.915	CU M
SP4		08.26.2004	19	0.45796	CU M/MI	1586.8991	CU M
SP4		08.26.2004	19.05	0	CU M/MI	1588.7159	CU M
SP4		08.26.2004	19.1	0.06733	CU M/MI	1590.0785	CU M
SP4		08.26.2004	19.15	0.01407	CU M/MI	1590.1542	CU M
SP4		08.26.2004	20.45	0	CU M/MI	1590.2299	CU M
SP4		08.26.2004	20.5	0	CU M/MI	1590.2299	CU M
SP4		08.26.2004	20.55	0.02671	CU M/MI	1590.2299	CU M
SP4		08.26.2004	20.4	0	CU M/MI	1590.26775	CU M
SP4		08.26.2004	20.3	0	CU M/MI	1590.3056	CU M
SP4		08.26.2004	20.35	0	CU M/MI	1590.3056	CU M
SP4		08.26.2004	20.25	0	CU M/MI	1590.34345	CU M
SP4		08.26.2004	20.15	0	CU M/MI	1590.3813	CU M
SP4		08.26.2004	20.2	0	CU M/MI	1590.3813	CU M
SP4		08.26.2004	20.1	0	CU M/MI	1590.41915	CU M
SP4		08.26.2004	20	0	CU M/MI	1590.457	CU M
SP4		08.26.2004	20.05	0	CU M/MI	1590.457	CU M
SP4		08.26.2004	19.55	0	CU M/MI	1590.49485	CU M
SP4		08.26.2004	19.45	0	CU M/MI	1590.5327	CU M
SP4		08.26.2004	19.5	0	CU M/MI	1590.5327	CU M
SP4		08.26.2004	19.35	0	CU M/MI	1590.57055	CU M
SP4		08.26.2004	19.4	0	CU M/MI	1590.57055	CU M
SP4		08.26.2004	19.3	0	CU M/MI	1590.6084	CU M
SP4		08.26.2004	19.2	0	CU M/MI	1590.64625	CU M
SP4		08.26.2004	19.25	0	CU M/MI	1590.64625	CU M
SP4		08.26.2004	21	0.43765	CU M/MI	1591.70605	CU M
SP4		08.26.2004	21.05	0.45082	CU M/MI	1593.97705	CU M
SP4		08.26.2004	21.1	0.40057	CU M/MI	1596.2102	CU M
SP4		08.26.2004	21.15	0.49566	CU M/MI	1597.9513	CU M
SP4		08.26.2004	21.2	0.18761	CU M/MI	1599.65455	CU M
SP4		08.26.2004	21.25	0.17162	CU M/MI	1600.56295	CU M
SP4		08.26.2004	21.3	0.16556	CU M/MI	1601.39565	CU M
SP4		08.26.2004	21.35	0.49507	CU M/MI	1603.7045	CU M
SP4		08.26.2004	21.4	0.49708	CU M/MI	1605.93765	CU M
SP4		08.26.2004	21.45	0.49545	CU M/MI	1608.43575	CU M
SP4		08.26.2004	21.5	0.49342	CU M/MI	1610.896	CU M
SP4		08.26.2004	21.55	0.49455	CU M/MI	1613.35625	CU M
SP4		08.26.2004	22	0.48962	CU M/MI	1615.8165	CU M
SP4		08.26.2004	22.05	0.45881	CU M/MI	1617.2548	CU M
SP4		08.26.2004	22.1	0.45812	CU M/MI	1619.5258	CU M
SP4		08.26.2004	22.15	0.49103	CU M/MI	1621.8725	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4		08.26.2004	22.2	0.37436	CU M/MI	1623.87855	CU M
SP4		08.26.2004	22.25	0.37199	CU M/MI	1625.7332	CU M
SP4		08.26.2004	22.3	0.4892	CU M/MI	1627.8528	CU M
SP4		08.26.2004	22.35	0.35079	CU M/MI	1630.16165	CU M
SP4		08.26.2004	22.4	0.45633	CU M/MI	1632.28125	CU M
SP4		08.26.2004	22.45	0.39065	CU M/MI	1633.79525	CU M
SP4		08.26.2004	22.5	0.48686	CU M/MI	1636.14195	CU M
SP4		08.26.2004	22.55	0.15058	CU M/MI	1637.9209	CU M
SP4		08.26.2004	23	0.23575	CU M/MI	1639.0564	CU M
SP4		08.26.2004	23.05	0.06748	CU M/MI	1640.2676	CU M
SP4		08.26.2004	23.1	0.48515	CU M/MI	1640.83535	CU M
SP4		08.26.2004	23.15	0	CU M/MI	1641.97085	CU M
SP4		08.26.2004	23.2	0.49089	CU M/MI	1643.25775	CU M
SP4		08.26.2004	23.25	0.48972	CU M/MI	1645.718	CU M
SP4		08.26.2004	23.3	0.49085	CU M/MI	1648.1404	CU M
SP4		08.26.2004	23.35	0	CU M/MI	1650.07075	CU M
SP4		08.26.2004	23.4	0.13054	CU M/MI	1651.9254	CU M
SP4		08.26.2004	23.45	0.25117	CU M/MI	1653.78005	CU M
SP4		08.26.2004	23.5	0.25493	CU M/MI	1654.802	CU M
SP4		08.26.2004	23.55	0.14666	CU M/MI	1655.4076	CU M
SP4		08.27.2004	0	0	CU M/MI	1655.97535	CU M
SP4		08.27.2004	0.05	0.43014	CU M/MI	1657.11085	CU M
SP4		08.27.2004	0.1	0.45629	CU M/MI	1659.07905	CU M
SP4		08.27.2004	0.2	0	CU M/MI	1661.12295	CU M
SP4		08.27.2004	0.15	0.03096	CU M/MI	1661.19865	CU M
SP4		08.27.2004	0.25	0.45544	CU M/MI	1662.7505	CU M
SP4		08.27.2004	0.3	0.38879	CU M/MI	1663.886	CU M
SP4		08.27.2004	0.35	0.16984	CU M/MI	1665.7028	CU M
SP4		08.27.2004	0.4	0.16191	CU M/MI	1666.3841	CU M
SP4		08.27.2004	0.45	0.16672	CU M/MI	1667.33035	CU M
SP4		08.27.2004	0.5	0.48929	CU M/MI	1668.7308	CU M
SP4		08.27.2004	0.55	0.40281	CU M/MI	1671.19105	CU M
SP4		08.27.2004	1	0.4553	CU M/MI	1672.6672	CU M
SP4		08.27.2004	1.05	0.42268	CU M/MI	1673.15925	CU M
SP4		08.27.2004	1.1	0.23911	CU M/MI	1675.0896	CU M
SP4		08.27.2004	1.15	0.25022	CU M/MI	1676.41435	CU M
SP4		08.27.2004	1.2	0.00173	CU M/MI	1677.47415	CU M
SP4		08.27.2004	1.25	0.38745	CU M/MI	1678.269	CU M
SP4		08.27.2004	1.3	0.00648	CU M/MI	1680.0101	CU M
SP4		08.27.2004	1.35	0.48831	CU M/MI	1681.6755	CU M
SP4		08.27.2004	1.4	0.01174	CU M/MI	1683.2652	CU M
SP4		08.27.2004	1.45	0.01175	CU M/MI	1684.4764	CU M
SP4		08.27.2004	1.5	0.45014	CU M/MI	1686.02825	CU M
SP4		08.27.2004	1.55	0	CU M/MI	1686.78525	CU M
SP4		08.27.2004	2	0.34365	CU M/MI	1688.7913	CU M
SP4		08.27.2004	2.05	0.45486	CU M/MI	1690.0025	CU M
SP4		08.27.2004	2.1	0.45216	CU M/MI	1691.02445	CU M
SP4		08.27.2004	2.15	0.45215	CU M/MI	1693.29545	CU M
SP4		08.27.2004	2.2	0.40537	CU M/MI	1694.8473	CU M
SP4		08.27.2004	2.25	0	CU M/MI	1694.9987	CU M
SP4		08.27.2004	2.3	0.27545	CU M/MI	1696.5884	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4		08.27.2004	2.35	0	CU M/MI	1698.2538	CU M
SP4		08.27.2004	2.4	0.27745	CU M/MI	1700.222	CU M
SP4		08.27.2004	2.45	0.00319	CU M/MI	1701.69815	CU M
SP4		08.27.2004	2.5	0	CU M/MI	1702.9472	CU M
SP4		08.27.2004	2.55	0.48206	CU M/MI	1703.25	CU M
SP4		08.27.2004	3	0.31289	CU M/MI	1705.48315	CU M
SP4		08.27.2004	3.05	0.12238	CU M/MI	1706.54295	CU M
SP4		08.27.2004	3.1	0.44957	CU M/MI	1708.13265	CU M
SP4		08.27.2004	3.15	0.48209	CU M/MI	1709.34385	CU M
SP4		08.27.2004	3.2	0	CU M/MI	1711.23635	CU M
SP4		08.27.2004	3.25	0.27048	CU M/MI	1712.14475	CU M
SP4		08.27.2004	3.3	0	CU M/MI	1713.65875	CU M
SP4		08.27.2004	3.35	0.43993	CU M/MI	1714.9078	CU M
SP4		08.27.2004	3.4	0.39114	CU M/MI	1716.0433	CU M
SP4		08.27.2004	3.45	0.44551	CU M/MI	1717.7844	CU M
SP4		08.27.2004	3.5	0.44524	CU M/MI	1719.56335	CU M
SP4		08.27.2004	3.55	0	CU M/MI	1719.71475	CU M
SP4		08.27.2004	4	0	CU M/MI	1721.15305	CU M
SP4		08.27.2004	4.05	0.25696	CU M/MI	1722.36425	CU M
SP4		08.27.2004	4.1	0.47791	CU M/MI	1724.2189	CU M
SP4		08.27.2004	4.15	0.21464	CU M/MI	1725.7329	CU M
SP4		08.27.2004	4.2	0.12986	CU M/MI	1726.8684	CU M
SP4		08.27.2004	4.25	0.21093	CU M/MI	1727.36045	CU M
SP4		08.27.2004	4.3	0.38112	CU M/MI	1729.1394	CU M
SP4		08.27.2004	4.35	0	CU M/MI	1730.8048	CU M
SP4		08.27.2004	4.4	0.4757	CU M/MI	1732.2431	CU M
SP4		08.27.2004	4.45	0.27247	CU M/MI	1733.3029	CU M
SP4		08.27.2004	4.5	0.44339	CU M/MI	1734.7412	CU M
SP4		08.27.2004	4.55	0	CU M/MI	1736.52015	CU M
SP4		08.27.2004	5	0.4678	CU M/MI	1736.67155	CU M
SP4		08.27.2004	5.05	0.43958	CU M/MI	1738.79115	CU M
SP4		08.27.2004	5.1	0.30084	CU M/MI	1739.7374	CU M
SP4		08.27.2004	5.15	0	CU M/MI	1740.7215	CU M
SP4		08.27.2004	5.2	0.31576	CU M/MI	1742.6897	CU M
SP4		08.27.2004	5.25	0.42302	CU M/MI	1744.3551	CU M
SP4		08.27.2004	5.3	0.39216	CU M/MI	1745.5663	CU M
SP4		08.27.2004	5.35	0	CU M/MI	1746.399	CU M
SP4		08.27.2004	5.4	0.00991	CU M/MI	1747.95085	CU M
SP4		08.27.2004	5.45	0	CU M/MI	1749.16205	CU M
SP4		08.27.2004	5.5	0.43206	CU M/MI	1750.7139	CU M
SP4		08.27.2004	5.55	0.45815	CU M/MI	1752.56855	CU M
SP4		08.27.2004	6	0.15264	CU M/MI	1753.40125	CU M
SP4		08.27.2004	6.05	0.14247	CU M/MI	1754.08255	CU M
SP4		08.27.2004	6.1	0.1466	CU M/MI	1754.83955	CU M
SP4		08.27.2004	6.15	0.27557	CU M/MI	1756.5428	CU M
SP4		08.27.2004	6.2	0.45651	CU M/MI	1758.54885	CU M
SP4		08.27.2004	6.25	0.43402	CU M/MI	1760.36565	CU M
SP4		08.27.2004	6.3	0.42614	CU M/MI	1761.539	CU M
SP4		08.27.2004	6.35	0.25775	CU M/MI	1762.4474	CU M
SP4		08.27.2004	6.4	0.26366	CU M/MI	1763.77215	CU M
SP4		08.27.2004	6.45	0.40111	CU M/MI	1765.74035	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4		08.27.2004	6.5	0.43468	CU M/MI	1767.70855	CU M
SP4		08.27.2004	6.55	0.00319	CU M/MI	1769.0333	CU M
SP4		08.27.2004	7	0	CU M/MI	1770.0174	CU M
SP4		08.27.2004	7.05	0.08202	CU M/MI	1771.3043	CU M
SP4		08.27.2004	7.1	0.43508	CU M/MI	1772.70475	CU M
SP4		08.27.2004	7.15	0	CU M/MI	1773.9538	CU M
SP4		08.27.2004	7.2	0.06891	CU M/MI	1775.80845	CU M
SP4		08.27.2004	7.25	0.27266	CU M/MI	1776.94395	CU M
SP4		08.27.2004	7.3	0	CU M/MI	1777.39815	CU M
SP4		08.27.2004	7.35	0.3135	CU M/MI	1779.3285	CU M
SP4		08.27.2004	7.4	0.43978	CU M/MI	1780.80465	CU M
SP4		08.27.2004	7.45	0.32729	CU M/MI	1782.2808	CU M
SP4		08.27.2004	7.5	0.43951	CU M/MI	1783.2649	CU M
SP4		08.27.2004	7.55	0	CU M/MI	1784.6275	CU M
SP4		08.27.2004	8	0.26074	CU M/MI	1785.19525	CU M
SP4		08.27.2004	8.05	0.47772	CU M/MI	1786.5957	CU M
SP4		08.27.2004	8.1	0.26251	CU M/MI	1788.22325	CU M
SP4		08.27.2004	8.15	0.26322	CU M/MI	1789.4723	CU M
SP4		08.27.2004	8.2	0	CU M/MI	1791.09985	CU M
SP4		08.27.2004	8.25	0	CU M/MI	1791.7433	CU M
SP4		08.27.2004	8.3	0	CU M/MI	1792.53815	CU M
SP4		08.27.2004	8.35	0.19286	CU M/MI	1793.29515	CU M
SP4		08.27.2004	8.4	0.18004	CU M/MI	1793.82505	CU M
SP4		08.27.2004	8.45	0.15032	CU M/MI	1794.27925	CU M
SP4		08.27.2004	8.5	0.42619	CU M/MI	1795.3012	CU M
SP4		08.27.2004	8.55	0.00853	CU M/MI	1797.45865	CU M
SP4		08.27.2004	9	0.4699	CU M/MI	1799.0862	CU M
SP4		08.27.2004	9.05	0.26392	CU M/MI	1800.4488	CU M
SP4		08.27.2004	9.1	0.4479	CU M/MI	1802.22775	CU M
SP4		08.27.2004	9.15	0	CU M/MI	1803.0983	CU M
SP4		08.27.2004	9.2	0.44922	CU M/MI	1804.42305	CU M
SP4		08.27.2004	9.25	0.02041	CU M/MI	1805.10435	CU M
SP4		08.27.2004	9.3	0.08073	CU M/MI	1806.1263	CU M
SP4		08.27.2004	9.35	0.03203	CU M/MI	1807.29965	CU M
SP4		08.27.2004	9.4	0.00014	CU M/MI	1808.28375	CU M
SP4		08.27.2004	9.45	0.42141	CU M/MI	1808.7001	CU M
SP4		08.27.2004	9.5	0.40719	CU M/MI	1810.78185	CU M
SP4		08.27.2004	9.55	0.00281	CU M/MI	1811.8038	CU M
SP4		08.27.2004	10	0.29056	CU M/MI	1813.3178	CU M
SP4		08.27.2004	10.05	0.21677	CU M/MI	1813.9991	CU M
SP4		08.27.2004	10.1	0.28247	CU M/MI	1815.4374	CU M
SP4		08.27.2004	10.15	0.03038	CU M/MI	1815.7402	CU M
SP4		08.27.2004	10.2	0.01176	CU M/MI	1815.92945	CU M
SP4		08.27.2004	10.25	0.03074	CU M/MI	1816.1187	CU M
SP4		08.27.2004	10.3	0.03311	CU M/MI	1816.1944	CU M
SP4		08.27.2004	10.35	0.02158	CU M/MI	1816.45935	CU M
SP4		08.27.2004	10.4	0.49057	CU M/MI	1818.0869	CU M
SP4		08.27.2004	10.45	0.49127	CU M/MI	1820.2822	CU M
SP4		08.27.2004	10.5	0.48839	CU M/MI	1822.74245	CU M
SP4		08.27.2004	10.55	0.37776	CU M/MI	1825.127	CU M
SP4		08.27.2004	11	0.48719	CU M/MI	1827.43585	CU M

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SP4		08.27.2004	11.05	0.36318	CU M/MI	1829.85825	CU M
SP4		08.27.2004	11.1	0.16087	CU M/MI	1831.183	CU M
SP4		08.27.2004	11.15	0.32773	CU M/MI	1832.0914	CU M
SP4		08.27.2004	11.2	0.16762	CU M/MI	1833.11335	CU M
SP4		08.27.2004	11.25	0.39036	CU M/MI	1834.93015	CU M
SP4		08.27.2004	11.3	0.28198	CU M/MI	1836.59555	CU M
SP4		08.27.2004	11.35	0.26607	CU M/MI	1838.18525	CU M
SP4		08.27.2004	11.4	0.23799	CU M/MI	1839.47215	CU M
SP4		08.27.2004	11.45	0.02645	CU M/MI	1839.7371	CU M
SP4		08.27.2004	11.5	0.46122	CU M/MI	1841.4782	CU M
SP4		08.27.2004	11.55	0.45849	CU M/MI	1843.10575	CU M
SP4		08.27.2004	12	0.44205	CU M/MI	1843.78705	CU M
SP4		08.27.2004	12.05	0.2396	CU M/MI	1845.75525	CU M
SP4		08.27.2004	12.1	0.23286	CU M/MI	1846.7772	CU M
SP4		08.27.2004	12.15	0.38954	CU M/MI	1847.7613	CU M
SP4		08.27.2004	12.2	0.45725	CU M/MI	1849.7295	CU M
SP4		08.27.2004	12.25	0.44301	CU M/MI	1850.14585	CU M
SP4		08.27.2004	15.2	0.45732	CU M/MI	1855.82335	CU M
SP4		08.27.2004	15.25	0.38994	CU M/MI	1857.41305	CU M
SP4		08.27.2004	15.3	0.25599	CU M/MI	1859.22985	CU M
SP4		08.27.2004	15.35	0	CU M/MI	1859.949	CU M
SP4		08.27.2004	15.4	0.19072	CU M/MI	1861.12235	CU M
SP4		08.27.2004	15.45	0.16275	CU M/MI	1861.8415	CU M
SP4		08.27.2004	15.5	0.13616	CU M/MI	1862.56065	CU M
SP4		08.27.2004	15.55	0.30021	CU M/MI	1864.07465	CU M
SP4		08.27.2004	16	0.48598	CU M/MI	1866.4592	CU M
SP4		08.27.2004	16.05	0.42637	CU M/MI	1868.276	CU M
SP4		08.27.2004	16.1	0.45792	CU M/MI	1869.44935	CU M
SP4		08.27.2004	16.15	0.45388	CU M/MI	1871.72035	CU M
SP4		08.27.2004	16.2	0.01097	CU M/MI	1873.0451	CU M
SP4		08.27.2004	16.25	0.45513	CU M/MI	1874.44555	CU M
SP4		08.27.2004	16.3	0.48024	CU M/MI	1875.95955	CU M
SP4		08.27.2004	16.35	0.01264	CU M/MI	1876.7544	CU M
SP4		08.27.2004	16.4	0.02103	CU M/MI	1877.9656	CU M
SP4		08.27.2004	16.45	0.45647	CU M/MI	1879.8581	CU M
SP4		08.27.2004	16.5	0.01522	CU M/MI	1880.6908	CU M
SP4		08.27.2004	16.55	0.48853	CU M/MI	1882.16695	CU M
SP4		08.27.2004	17	0.13511	CU M/MI	1884.2487	CU M
SP4		08.27.2004	17.05	0.38688	CU M/MI	1884.7786	CU M
SP4		08.27.2004	17.1	0.45241	CU M/MI	1886.6711	CU M
SP4		08.27.2004	17.15	0.45914	CU M/MI	1888.97995	CU M
SP4		08.27.2004	17.2	0	CU M/MI	1889.2449	CU M
SP4		08.27.2004	17.25	0.45889	CU M/MI	1890.4561	CU M
SP4		08.27.2004	17.3	0.4102	CU M/MI	1892.1215	CU M
SP4		08.27.2004	17.35	0.40228	CU M/MI	1893.44625	CU M
SP4		08.27.2004	17.4	0.28528	CU M/MI	1894.96025	CU M
SP4		08.27.2004	17.45	0.44988	CU M/MI	1896.62565	CU M
SP4		08.27.2004	17.5	0.00982	CU M/MI	1897.00415	CU M
SP4		08.27.2004	17.55	0.49168	CU M/MI	1898.51815	CU M
SP4		08.27.2004	18	0.26905	CU M/MI	1900.7513	CU M
SP4		08.27.2004	18.05	0.45688	CU M/MI	1902.5681	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4		08.27.2004	18.1	0.0167	CU M/MI	1902.90875	CU M
SP4		08.27.2004	18.15	0.01765	CU M/MI	1903.0223	CU M
SP4		08.27.2004	18.2	0.03689	CU M/MI	1903.1737	CU M
SP4		08.27.2004	18.25	0.04074	CU M/MI	1903.4008	CU M
SP4		08.27.2004	18.3	0	CU M/MI	1903.5522	CU M
SP4		08.27.2004	18.35	0.06698	CU M/MI	1903.7793	CU M
SP4		08.27.2004	18.4	0.06618	CU M/MI	1904.11995	CU M
SP4		08.27.2004	18.45	0.16521	CU M/MI	1904.72555	CU M
SP4		08.27.2004	18.5	0.17559	CU M/MI	1905.63395	CU M
SP4		08.27.2004	18.55	0.18669	CU M/MI	1906.5802	CU M
SP4		08.27.2004	19	0.37634	CU M/MI	1907.29935	CU M
SP4		08.27.2004	19.05	0.49465	CU M/MI	1909.64605	CU M
SP4		08.27.2004	19.1	0.49409	CU M/MI	1912.14415	CU M
SP4		08.27.2004	19.15	0.37408	CU M/MI	1914.49085	CU M
SP4		08.27.2004	19.2	0.49327	CU M/MI	1916.61045	CU M
SP4		08.27.2004	19.25	0.27773	CU M/MI	1918.9193	CU M
SP4		08.27.2004	19.3	0.21705	CU M/MI	1920.24405	CU M
SP4		08.27.2004	19.35	0.49154	CU M/MI	1922.36365	CU M
SP4		08.27.2004	19.4	0.35055	CU M/MI	1924.7482	CU M
SP4		08.27.2004	19.45	0.0536	CU M/MI	1926.82995	CU M
SP4		08.27.2004	19.5	0.38944	CU M/MI	1927.35985	CU M
SP4		08.27.2004	19.55	0.45882	CU M/MI	1929.593	CU M
SP4		08.27.2004	20	0.02791	CU M/MI	1930.2743	CU M
SP4		08.27.2004	20.05	0	CU M/MI	1930.91775	CU M
SP4		08.27.2004	20.1	0.03105	CU M/MI	1932.0154	CU M
SP4		08.27.2004	20.15	0.45913	CU M/MI	1934.135	CU M
SP4		08.27.2004	20.2	0.22633	CU M/MI	1934.892	CU M
SP4		08.27.2004	20.25	0.26434	CU M/MI	1935.9518	CU M
SP4		08.27.2004	20.3	0.49432	CU M/MI	1937.5415	CU M
SP4		08.27.2004	20.35	0.01945	CU M/MI	1939.32045	CU M
SP4		08.27.2004	20.4	0.39046	CU M/MI	1939.8125	CU M
SP4		08.27.2004	20.45	0.4038	CU M/MI	1942.19705	CU M
SP4		08.27.2004	20.5	0.0412	CU M/MI	1943.78675	CU M
SP4		08.27.2004	20.55	0.02542	CU M/MI	1943.8246	CU M
SP4		08.27.2004	21	0.45811	CU M/MI	1945.5657	CU M
SP4		08.27.2004	21.05	0.02652	CU M/MI	1947.3825	CU M
SP4		08.27.2004	21.1	0.38923	CU M/MI	1948.4423	CU M
SP4		08.27.2004	21.15	0.45676	CU M/MI	1950.29695	CU M
SP4		08.27.2004	21.2	0.45251	CU M/MI	1950.97825	CU M
SP4		08.27.2004	21.25	0.01697	CU M/MI	1952.03805	CU M
SP4		08.27.2004	21.3	0.27036	CU M/MI	1952.79505	CU M
SP4		08.27.2004	21.35	0.48841	CU M/MI	1954.2712	CU M
SP4		08.27.2004	21.4	0.47429	CU M/MI	1956.50435	CU M
SP4		08.27.2004	21.45	0.45832	CU M/MI	1957.26135	CU M
SP4		08.27.2004	21.5	0.4591	CU M/MI	1959.07815	CU M
SP4		08.27.2004	21.55	0.26018	CU M/MI	1959.98655	CU M
SP4		08.27.2004	22	0.45376	CU M/MI	1961.57625	CU M
SP4		08.27.2004	22.05	0.16369	CU M/MI	1963.1281	CU M
SP4		08.27.2004	22.1	0.15678	CU M/MI	1963.84725	CU M
SP4		08.27.2004	22.15	0.17919	CU M/MI	1964.415	CU M
SP4		08.27.2004	22.2	0.49086	CU M/MI	1965.73975	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4		08.27.2004	22.25	0	CU M/MI	1966.8374	CU M
SP4		08.27.2004	22.3	0.35033	CU M/MI	1967.2916	CU M
SP4		08.27.2004	22.35	0.39064	CU M/MI	1969.44905	CU M
SP4		08.27.2004	22.4	0.02431	CU M/MI	1970.9252	CU M
SP4		08.27.2004	22.45	0.5283	CU M/MI	1972.17425	CU M
SP4		08.27.2004	22.5	0.26496	CU M/MI	1972.77985	CU M
SP4		08.27.2004	22.55	0.25113	CU M/MI	1973.15835	CU M
SP4		08.27.2004	23	0.38214	CU M/MI	1974.6345	CU M
SP4		08.27.2004	23.05	0.39092	CU M/MI	1975.58075	CU M
SP4		08.27.2004	23.1	0.46302	CU M/MI	1977.85175	CU M
SP4		08.27.2004	23.15	0.02986	CU M/MI	1978.60875	CU M
SP4		08.27.2004	23.2	0.27699	CU M/MI	1979.97135	CU M
SP4		08.27.2004	23.25	0.46026	CU M/MI	1980.9933	CU M
SP4		08.27.2004	23.3	0.22903	CU M/MI	1982.39375	CU M
SP4		08.27.2004	23.35	0.22077	CU M/MI	1983.4914	CU M
SP4		08.27.2004	23.4	0.46282	CU M/MI	1985.34605	CU M
SP4		08.27.2004	23.45	0.45912	CU M/MI	1986.93575	CU M
SP4		08.27.2004	23.5	0.46025	CU M/MI	1988.75255	CU M
SP4		08.27.2004	23.55	0.4602	CU M/MI	1989.88805	CU M
SP4		08.28.2004	0	0.29913	CU M/MI	1991.667	CU M
SP4		08.28.2004	0.05	0.45211	CU M/MI	1993.6352	CU M
SP4		08.28.2004	0.1	0.03301	CU M/MI	1994.80855	CU M
SP4		08.28.2004	0.15	0.46065	CU M/MI	1995.8305	CU M
SP4		08.28.2004	0.2	0.46114	CU M/MI	1998.13935	CU M
SP4		08.28.2004	0.25	0.01275	CU M/MI	1998.8585	CU M
SP4		08.28.2004	0.3	0.45743	CU M/MI	1999.27485	CU M
SP4		08.28.2004	0.35	0.03983	CU M/MI	2001.16735	CU M
SP4		08.28.2004	0.4	0.4593	CU M/MI	2001.92435	CU M
SP4		08.28.2004	0.45	0.27674	CU M/MI	2003.2491	CU M
SP4		08.28.2004	0.5	0.4567	CU M/MI	2005.293	CU M
SP4		08.28.2004	0.55	0.02766	CU M/MI	2006.5799	CU M
SP4		08.28.2004	1	0.03206	CU M/MI	2006.5799	CU M
SP4		08.28.2004	1.05	0.00364	CU M/MI	2006.61775	CU M
SP4		08.28.2004	1.1	0.45784	CU M/MI	2008.6238	CU M
SP4		08.28.2004	1.15	0.00826	CU M/MI	2009.57005	CU M
SP4		08.28.2004	1.2	0.49002	CU M/MI	2010.85695	CU M
SP4		08.28.2004	1.25	0.03922	CU M/MI	2012.7873	CU M
SP4		08.28.2004	1.3	0.26046	CU M/MI	2013.3929	CU M
SP4		08.28.2004	1.35	0.47323	CU M/MI	2014.26345	CU M
SP4		08.28.2004	1.4	0.3877	CU M/MI	2016.61015	CU M
SP4		08.28.2004	1.45	0.45608	CU M/MI	2017.9349	CU M
SP4		08.28.2004	1.5	0.0087	CU M/MI	2019.3732	CU M
SP4		08.28.2004	1.55	0.00261	CU M/MI	2019.41105	CU M
SP4		08.28.2004	2	0.25453	CU M/MI	2021.19	CU M
SP4		08.28.2004	2.05	0.24362	CU M/MI	2022.4012	CU M
SP4		08.28.2004	2.1	0.48808	CU M/MI	2024.10445	CU M
SP4		08.28.2004	2.15	0.34447	CU M/MI	2025.31565	CU M
SP4		08.28.2004	2.2	0.00566	CU M/MI	2026.60255	CU M
SP4		08.28.2004	2.25	0.01732	CU M/MI	2027.66235	CU M
SP4		08.28.2004	2.3	0.34706	CU M/MI	2028.4572	CU M
SP4		08.28.2004	2.35	0.37425	CU M/MI	2030.3497	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4		08.28.2004	2.4	0	CU M/MI	2031.1067	CU M
SP4		08.28.2004	2.45	0.48671	CU M/MI	2032.58285	CU M
SP4		08.28.2004	2.5	0.00496	CU M/MI	2034.2104	CU M
SP4		08.28.2004	2.55	0.45649	CU M/MI	2035.573	CU M
SP4		08.28.2004	3	0.27365	CU M/MI	2036.7085	CU M
SP4		08.28.2004	3.05	0.40248	CU M/MI	2038.1468	CU M
SP4		08.28.2004	3.1	0.45503	CU M/MI	2038.9038	CU M
SP4		08.28.2004	3.15	0.38384	CU M/MI	2040.3421	CU M
SP4		08.28.2004	3.2	0.454	CU M/MI	2041.96965	CU M
SP4		08.28.2004	3.25	0.018	CU M/MI	2044.01355	CU M
SP4		08.28.2004	3.3	0.22939	CU M/MI	2044.54345	CU M
SP4		08.28.2004	3.35	0.00082	CU M/MI	2044.84625	CU M
SP4		08.28.2004	3.4	0.45232	CU M/MI	2047.0037	CU M
SP4		08.28.2004	3.45	0.38306	CU M/MI	2048.5177	CU M
SP4		08.28.2004	3.5	0	CU M/MI	2049.3504	CU M
SP4		08.28.2004	3.55	0.43139	CU M/MI	2050.90225	CU M
SP4		08.28.2004	4	0	CU M/MI	2051.65925	CU M
SP4		08.28.2004	4.05	0.36661	CU M/MI	2053.741	CU M
SP4		08.28.2004	4.1	0.44907	CU M/MI	2054.30875	CU M
SP4		08.28.2004	4.15	0.45021	CU M/MI	2056.5419	CU M
SP4		08.28.2004	4.2	0.33764	CU M/MI	2057.8288	CU M
SP4		08.28.2004	4.25	0	CU M/MI	2058.39655	CU M
SP4		08.28.2004	4.3	0.45003	CU M/MI	2060.0998	CU M
SP4		08.28.2004	4.35	0	CU M/MI	2061.19745	CU M
SP4		08.28.2004	4.4	0.48234	CU M/MI	2062.93855	CU M
SP4		08.28.2004	4.45	0.33678	CU M/MI	2063.84695	CU M
SP4		08.28.2004	4.5	0	CU M/MI	2065.096	CU M
SP4		08.28.2004	4.55	0	CU M/MI	2066.4586	CU M
SP4		08.28.2004	5	0.24588	CU M/MI	2067.25345	CU M
SP4		08.28.2004	5.05	0.48238	CU M/MI	2068.61605	CU M
SP4		08.28.2004	5.1	0.15304	CU M/MI	2070.65995	CU M
SP4		08.28.2004	5.15	0	CU M/MI	2070.88705	CU M
SP4		08.28.2004	5.2	0.25898	CU M/MI	2071.64405	CU M
SP4		08.28.2004	5.25	0.48452	CU M/MI	2073.5744	CU M
SP4		08.28.2004	5.3	0.46281	CU M/MI	2075.7697	CU M
SP4		08.28.2004	5.35	0.34305	CU M/MI	2076.48885	CU M
SP4		08.28.2004	5.4	0	CU M/MI	2077.6622	CU M
SP4		08.28.2004	5.45	0.4259	CU M/MI	2079.51685	CU M
SP4		08.28.2004	5.5	0	CU M/MI	2080.27385	CU M
SP4		08.28.2004	5.55	0	CU M/MI	2080.80375	CU M
SP4	Day 1	08.28.2004	6	0.32964	CU M/MI	2083.333333	CU M
SP4	Day 1	08.28.2004	6.05	0.48712	CU M/MI	2085.378788	CU M
SP4	Day 1	08.28.2004	6.1	0.00494	CU M/MI	2086.401515	CU M
SP4	Day 1	08.28.2004	6.15	0.45609	CU M/MI	2088.598485	CU M
SP4	Day 1	08.28.2004	6.2	0.37047	CU M/MI	2089.962121	CU M
SP4	Day 1	08.28.2004	6.25	0.09321	CU M/MI	2090.643939	CU M
SP4	Day 1	08.28.2004	6.3	0.15194	CU M/MI	2091.363636	CU M
SP4	Day 1	08.28.2004	6.35	0.13823	CU M/MI	2092.083333	CU M
SP4	Day 1	08.28.2004	6.4	0.1595	CU M/MI	2092.878788	CU M
SP4	Day 1	08.28.2004	6.45	0.27419	CU M/MI	2094.810606	CU M
SP4	Day 1	08.28.2004	6.5	0.30255	CU M/MI	2096.022727	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 1	08.28.2004	6.55	0	CU M/MI	2096.780303	CU M
SP4	Day 1	08.28.2004	7	0.49575	CU M/MI	2097.424242	CU M
SP4	Day 1	08.28.2004	7.05	0.49424	CU M/MI	2099.886364	CU M
SP4	Day 1	08.28.2004	7.1	0.46246	CU M/MI	2101.780303	CU M
SP4	Day 1	08.28.2004	7.15	0.04283	CU M/MI	2103.636364	CU M
SP4	Day 1	08.28.2004	7.2	0.46185	CU M/MI	2104.545455	CU M
SP4	Day 1	08.28.2004	7.25	0.01723	CU M/MI	2106.212121	CU M
SP4	Day 1	08.28.2004	7.3	0.38872	CU M/MI	2107.045455	CU M
SP4	Day 1	08.28.2004	7.35	0.3851	CU M/MI	2109.356061	CU M
SP4	Day 1	08.28.2004	7.4	0.01558	CU M/MI	2109.924242	CU M
SP4	Day 1	08.28.2004	7.45	0.48662	CU M/MI	2110.30303	CU M
SP4	Day 1	08.28.2004	7.5	0.48851	CU M/MI	2112.727273	CU M
SP4	Day 1	08.28.2004	7.55	0.45593	CU M/MI	2115.113636	CU M
SP4	Day 1	08.28.2004	8	0	CU M/MI	2115.30303	CU M
SP4	Day 1	08.28.2004	8.05	0.4852	CU M/MI	2115.833333	CU M
SP4	Day 1	08.28.2004	8.1	0.49077	CU M/MI	2118.295455	CU M
SP4	Day 1	08.28.2004	8.15	0.01769	CU M/MI	2119.621212	CU M
SP4	Day 1	08.28.2004	8.2	0.21819	CU M/MI	2120.151515	CU M
SP4	Day 1	08.28.2004	8.25	0.13882	CU M/MI	2121.212121	CU M
SP4	Day 1	08.28.2004	8.3	0.02218	CU M/MI	2122.613636	CU M
SP4	Day 1	08.28.2004	8.35	0.22368	CU M/MI	2123.143939	CU M
SP4	Day 1	08.28.2004	8.4	0.46447	CU M/MI	2124.659091	CU M
SP4	Day 1	08.28.2004	8.45	0.02357	CU M/MI	2126.060606	CU M
SP4	Day 1	08.28.2004	8.5	0.25748	CU M/MI	2126.477273	CU M
SP4	Day 1	08.28.2004	8.55	0	CU M/MI	2126.818182	CU M
SP4	Day 1	08.28.2004	9	0.46977	CU M/MI	2127.386364	CU M
SP4	Day 1	08.28.2004	9.05	0.0132	CU M/MI	2128.295455	CU M
SP4	Day 1	08.28.2004	9.1	0.14383	CU M/MI	2128.977273	CU M
SP4	Day 1	08.28.2004	9.15	0.1632	CU M/MI	2129.659091	CU M
SP4	Day 1	08.28.2004	9.2	0.05122	CU M/MI	2131.628788	CU M
SP4	Day 1	08.28.2004	9.25	0.44856	CU M/MI	2131.856061	CU M
SP4	Day 1	08.28.2004	9.3	0.15108	CU M/MI	2134.090909	CU M
SP4	Day 1	08.28.2004	9.35	0	CU M/MI	2135.681818	CU M
SP4	Day 1	08.28.2004	9.4	0.45867	CU M/MI	2137.159091	CU M
SP4	Day 1	08.28.2004	9.45	0.01623	CU M/MI	2137.651515	CU M
SP4	Day 1	08.28.2004	9.5	0.45723	CU M/MI	2139.015152	CU M
SP4	Day 1	08.28.2004	9.55	0.00984	CU M/MI	2140.681818	CU M
SP4	Day 1	08.28.2004	10	0.38383	CU M/MI	2141.477273	CU M
SP4	Day 1	08.28.2004	10.05	0.4559	CU M/MI	2142.613636	CU M
SP4	Day 1	08.28.2004	10.1	0	CU M/MI	2144.659091	CU M
SP4	Day 1	08.28.2004	10.15	0.0026	CU M/MI	2144.621212	CU M
SP4	Day 1	08.28.2004	10.2	0.48782	CU M/MI	2146.704545	CU M
SP4	Day 1	08.28.2004	10.25	0.29755	CU M/MI	2148.636364	CU M
SP4	Day 1	08.28.2004	10.3	0.45327	CU M/MI	2149.734848	CU M
SP4	Day 1	08.28.2004	10.35	0.00629	CU M/MI	2151.55303	CU M
SP4	Day 1	08.28.2004	10.4	0.0072	CU M/MI	2151.590909	CU M
SP4	Day 1	08.28.2004	10.45	0.18511	CU M/MI	2153.484848	CU M
SP4	Day 1	08.28.2004	10.5	0.00106	CU M/MI	2153.636364	CU M
SP4	Day 1	08.28.2004	10.55	0.25472	CU M/MI	2154.583333	CU M
SP4	Day 1	08.28.2004	11	0.37335	CU M/MI	2155.909091	CU M
SP4	Day 1	08.28.2004	11.05	0.01627	CU M/MI	2157.159091	CU M

Appendix B
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 1	08.28.2004	11.1	0.48934	CU M/MI	2157.916667	CU M
SP4	Day 1	08.28.2004	11.15	0.4566	CU M/MI	2160.113636	CU M
SP4	Day 1	08.28.2004	11.2	0	CU M/MI	2161.022727	CU M
SP4	Day 1	08.28.2004	11.25	0.01409	CU M/MI	2161.098485	CU M
SP4	Day 1	08.28.2004	11.3	0.48956	CU M/MI	2162.537879	CU M
SP4	Day 1	08.28.2004	11.35	0.37277	CU M/MI	2164.886364	CU M
SP4	Day 1	08.28.2004	11.4	0.03263	CU M/MI	2166.742424	CU M
SP4	Day 1	08.28.2004	11.45	0.23594	CU M/MI	2167.234848	CU M
SP4	Day 1	08.28.2004	11.5	0	CU M/MI	2167.80303	CU M
SP4	Day 1	08.28.2004	11.55	0.48248	CU M/MI	2168.939394	CU M
SP4	Day 1	08.28.2004	12	0.0423	CU M/MI	2171.022727	CU M
SP4	Day 1	08.28.2004	12.05	0.45568	CU M/MI	2172.19697	CU M
SP4	Day 1	08.28.2004	12.1	0	CU M/MI	2174.05303	CU M
SP4	Day 1	08.28.2004	12.15	0.18411	CU M/MI	2174.015152	CU M
SP4	Day 1	08.28.2004	12.2	0.48588	CU M/MI	2176.401515	CU M
SP4	Day 1	08.28.2004	12.25	0.27632	CU M/MI	2178.068182	CU M
SP4	Day 1	08.28.2004	12.3	0.4568	CU M/MI	2178.674242	CU M
SP4	Day 1	08.28.2004	12.35	0.31668	CU M/MI	2180.113636	CU M
SP4	Day 1	08.28.2004	12.4	0.45476	CU M/MI	2181.401515	CU M
SP4	Day 1	08.28.2004	12.45	0.00691	CU M/MI	2183.295455	CU M
SP4	Day 1	08.28.2004	12.5	0.38443	CU M/MI	2183.787879	CU M
SP4	Day 1	08.28.2004	12.55	0.45303	CU M/MI	2185.94697	CU M
SP4	Day 1	08.28.2004	13	0.00883	CU M/MI	2186.55303	CU M
SP4	Day 1	08.28.2004	13.05	0.4541	CU M/MI	2187.651515	CU M
SP4	Day 1	08.28.2004	13.1	0.36687	CU M/MI	2189.659091	CU M
SP4	Day 1	08.28.2004	13.15	0	CU M/MI	2190.909091	CU M
SP4	Day 1	08.28.2004	13.2	0.45361	CU M/MI	2191.704545	CU M
SP4	Day 1	08.28.2004	13.25	0.27221	CU M/MI	2192.840909	CU M
SP4	Day 1	08.28.2004	13.3	0.4529	CU M/MI	2194.507576	CU M
SP4	Day 1	08.28.2004	13.35	0	CU M/MI	2195.871212	CU M
SP4	Day 1	08.28.2004	13.4	0.38129	CU M/MI	2195.984848	CU M
SP4	Day 1	08.28.2004	13.45	0.19809	CU M/MI	2198.219697	CU M
SP4	Day 1	08.28.2004	13.5	0.18652	CU M/MI	2199.128788	CU M
SP4	Day 1	08.28.2004	13.55	0.09706	CU M/MI	2199.924242	CU M
SP4	Day 1	08.28.2004	14	0.48365	CU M/MI	2201.628788	CU M
SP4	Day 1	08.28.2004	14.05	0	CU M/MI	2203.560606	CU M
SP4	Day 1	08.28.2004	14.1	0.07855	CU M/MI	2204.924242	CU M
SP4	Day 1	08.28.2004	14.15	0.27395	CU M/MI	2205.795455	CU M
SP4	Day 1	08.28.2004	14.2	0.45113	CU M/MI	2207.80303	CU M
SP4	Day 1	08.28.2004	14.25	0	CU M/MI	2208.863636	CU M
SP4	Day 1	08.28.2004	14.3	0.48383	CU M/MI	2209.469697	CU M
SP4	Day 1	08.28.2004	14.35	0.00533	CU M/MI	2211.098485	CU M
SP4	Day 1	08.28.2004	14.4	0.22299	CU M/MI	2211.401515	CU M
SP4	Day 1	08.28.2004	14.45	0.48216	CU M/MI	2212.992424	CU M
SP4	Day 1	08.28.2004	14.5	0.45156	CU M/MI	2215.189394	CU M
SP4	Day 1	08.28.2004	14.55	0.44909	CU M/MI	2215.606061	CU M
SP4	Day 1	08.28.2004	15	0	CU M/MI	2217.386364	CU M
SP4	Day 1	08.28.2004	15.05	0.47105	CU M/MI	2218.257576	CU M
SP4	Day 1	08.28.2004	15.1	0.13038	CU M/MI	2220.265152	CU M
SP4	Day 1	08.28.2004	15.15	0	CU M/MI	2220.454545	CU M
SP4	Day 1	08.28.2004	15.2	0	CU M/MI	2221.060606	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 1	08.28.2004	15.25	0.39868	CU M/MI	2221.893939	CU M
SP4	Day 1	08.28.2004	15.3	0.00691	CU M/MI	2223.863636	CU M
SP4	Day 1	08.28.2004	15.35	0.45018	CU M/MI	2224.886364	CU M
SP4	Day 1	08.28.2004	15.4	0	CU M/MI	2225.113636	CU M
SP4	Day 1	08.28.2004	15.45	0	CU M/MI	2226.136364	CU M
SP4	Day 1	08.28.2004	15.5	0.45134	CU M/MI	2227.19697	CU M
SP4	Day 1	08.28.2004	15.55	0.45147	CU M/MI	2228.333333	CU M
SP4	Day 1	08.28.2004	16	0.01887	CU M/MI	2230.492424	CU M
SP4	Day 1	08.28.2004	16.05	0	CU M/MI	2230.492424	CU M
SP4	Day 1	08.28.2004	16.1	0.45113	CU M/MI	2232.310606	CU M
SP4	Day 1	08.28.2004	16.15	0	CU M/MI	2233.068182	CU M
SP4	Day 1	08.28.2004	16.2	0.4837	CU M/MI	2234.204545	CU M
SP4	Day 1	08.28.2004	16.25	0	CU M/MI	2236.174242	CU M
SP4	Day 1	08.28.2004	16.3	0	CU M/MI	2236.098485	CU M
SP4	Day 1	08.28.2004	16.35	0.44936	CU M/MI	2238.219697	CU M
SP4	Day 1	08.28.2004	16.4	0	CU M/MI	2238.598485	CU M
SP4	Day 1	08.28.2004	16.45	0.33677	CU M/MI	2240.492424	CU M
SP4	Day 1	08.28.2004	16.5	0	CU M/MI	2241.856061	CU M
SP4	Day 1	08.28.2004	16.55	0.44948	CU M/MI	2242.386364	CU M
SP4	Day 1	08.28.2004	17	0.37906	CU M/MI	2244.659091	CU M
SP4	Day 1	08.28.2004	17.05	0	CU M/MI	2244.583333	CU M
SP4	Day 1	08.28.2004	17.1	0.48186	CU M/MI	2246.060606	CU M
SP4	Day 1	08.28.2004	17.15	0.22804	CU M/MI	2247.765152	CU M
SP4	Day 1	08.28.2004	17.2	0.2521	CU M/MI	2248.787879	CU M
SP4	Day 1	08.28.2004	17.25	0	CU M/MI	2250.454545	CU M
SP4	Day 1	08.28.2004	17.3	0.38153	CU M/MI	2250.795455	CU M
SP4	Day 1	08.28.2004	17.35	0.48096	CU M/MI	2253.181818	CU M
SP4	Day 1	08.28.2004	17.4	0	CU M/MI	2253.863636	CU M
SP4	Day 1	08.28.2004	17.45	0.44816	CU M/MI	2255.227273	CU M
SP4	Day 1	08.28.2004	17.5	0	CU M/MI	2256.55303	CU M
SP4	Day 1	08.28.2004	17.55	0.19856	CU M/MI	2257.272727	CU M
SP4	Day 1	08.28.2004	18	0.19445	CU M/MI	2258.106061	CU M
SP4	Day 1	08.28.2004	18.05	0.18814	CU M/MI	2259.015152	CU M
SP4	Day 1	08.28.2004	18.1	0.48104	CU M/MI	2260.340909	CU M
SP4	Day 1	08.28.2004	18.15	0.48158	CU M/MI	2262.5	CU M
SP4	Day 1	08.28.2004	18.2	0	CU M/MI	2263.674242	CU M
SP4	Day 1	08.28.2004	18.25	0.03886	CU M/MI	2265.075758	CU M
SP4	Day 1	08.28.2004	18.3	0.02806	CU M/MI	2266.666667	CU M
SP4	Day 1	08.28.2004	18.35	0.33496	CU M/MI	2267.651515	CU M
SP4	Day 1	08.28.2004	18.4	0	CU M/MI	2268.484848	CU M
SP4	Day 1	08.28.2004	18.45	0.24583	CU M/MI	2269.280303	CU M
SP4	Day 1	08.28.2004	18.5	0.1975	CU M/MI	2270.151515	CU M
SP4	Day 1	08.28.2004	18.55	0.47993	CU M/MI	2271.931818	CU M
SP4	Day 1	08.28.2004	19.15	0	CU M/MI	2277.80303	CU M
SP4	Day 1	08.28.2004	19.2	0.44781	CU M/MI	2278.44697	CU M
SP4	Day 1	08.28.2004	19.25	0	CU M/MI	2280.454545	CU M
SP4	Day 1	08.28.2004	19.3	0.22836	CU M/MI	2280.909091	CU M
SP4	Day 1	08.28.2004	19.35	0.23867	CU M/MI	2282.159091	CU M
SP4	Day 1	08.28.2004	19.4	0.45734	CU M/MI	2283.901515	CU M
SP4	Day 1	08.28.2004	19.45	0.44303	CU M/MI	2284.772727	CU M
SP4	Day 1	08.28.2004	19.5	0.36462	CU M/MI	2286.931818	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 1	08.28.2004	19.55	0.44406	CU M/MI	2287.992424	CU M
SP4	Day 1	08.28.2004	20	0.44747	CU M/MI	2290.075758	CU M
SP4	Day 1	08.28.2004	20.05	0.38005	CU M/MI	2290.416667	CU M
SP4	Day 1	08.28.2004	20.1	0.45054	CU M/MI	2292.613636	CU M
SP4	Day 1	08.28.2004	20.15	0	CU M/MI	2293.44697	CU M
SP4	Day 1	08.28.2004	20.2	0.447	CU M/MI	2294.318182	CU M
SP4	Day 1	08.28.2004	20.25	0	CU M/MI	2296.060606	CU M
SP4	Day 1	08.28.2004	20.3	0.43484	CU M/MI	2297.613636	CU M
SP4	Day 1	08.28.2004	20.35	0	CU M/MI	2299.280303	CU M
SP4	Day 1	08.28.2004	20.4	0.04709	CU M/MI	2299.318182	CU M
SP4	Day 1	08.28.2004	20.45	0.47717	CU M/MI	2300.681818	CU M
SP4	Day 1	08.28.2004	20.5	0.47734	CU M/MI	2302.878788	CU M
SP4	Day 1	08.28.2004	20.55	0	CU M/MI	2303.825758	CU M
SP4	Day 1	08.28.2004	21	0.15852	CU M/MI	2304.431818	CU M
SP4	Day 1	08.28.2004	21.05	0.17787	CU M/MI	2305.340909	CU M
SP4	Day 1	08.28.2004	21.1	0.3376	CU M/MI	2306.818182	CU M
SP4	Day 1	08.28.2004	21.15	0.48008	CU M/MI	2308.674242	CU M
SP4	Day 1	08.28.2004	21.2	0.31551	CU M/MI	2310.984848	CU M
SP4	Day 1	08.28.2004	21.25	0.22853	CU M/MI	2311.818182	CU M
SP4	Day 1	08.28.2004	21.3	0.47157	CU M/MI	2312.840909	CU M
SP4	Day 1	08.28.2004	21.35	0	CU M/MI	2314.583333	CU M
SP4	Day 1	08.28.2004	21.4	0.44678	CU M/MI	2316.515152	CU M
SP4	Day 1	08.28.2004	21.45	0.34345	CU M/MI	2317.651515	CU M
SP4	Day 1	08.28.2004	21.5	0.26918	CU M/MI	2318.977273	CU M
SP4	Day 1	08.28.2004	21.55	0.44721	CU M/MI	2320.719697	CU M
SP4	Day 1	08.28.2004	22	0.37813	CU M/MI	2321.856061	CU M
SP4	Day 1	08.28.2004	22.05	0	CU M/MI	2322.954545	CU M
SP4	Day 1	08.28.2004	22.1	0	CU M/MI	2323.560606	CU M
SP4	Day 1	08.28.2004	22.15	0	CU M/MI	2323.636364	CU M
SP4	Day 1	08.28.2004	22.2	0.48001	CU M/MI	2326.022727	CU M
SP4	Day 1	08.28.2004	22.25	0	CU M/MI	2326.590909	CU M
SP4	Day 1	08.28.2004	22.3	0.44641	CU M/MI	2328.44697	CU M
SP4	Day 1	08.28.2004	22.35	0.37668	CU M/MI	2329.583333	CU M
SP4	Day 1	08.28.2004	22.4	0.19068	CU M/MI	2331.401515	CU M
SP4	Day 1	08.28.2004	22.45	0	CU M/MI	2331.893939	CU M
SP4	Day 1	08.28.2004	22.5	0.44646	CU M/MI	2333.484848	CU M
SP4	Day 1	08.28.2004	22.55	0.47574	CU M/MI	2335.227273	CU M
SP4	Day 1	08.28.2004	23	0.27	CU M/MI	2336.55303	CU M
SP4	Day 1	08.28.2004	23.05	0.44714	CU M/MI	2338.030303	CU M
SP4	Day 1	08.28.2004	23.1	0	CU M/MI	2338.787879	CU M
SP4	Day 1	08.28.2004	23.15	0.48091	CU M/MI	2340.568182	CU M
SP4	Day 1	08.28.2004	23.2	0	CU M/MI	2341.780303	CU M
SP4	Day 1	08.28.2004	23.25	0.0733	CU M/MI	2342.992424	CU M
SP4	Day 1	08.28.2004	23.3	0.01379	CU M/MI	2344.962121	CU M
SP4	Day 1	08.28.2004	23.35	0.0581	CU M/MI	2345.568182	CU M
SP4	Day 1	08.28.2004	23.4	0.23997	CU M/MI	2346.742424	CU M
SP4	Day 1	08.28.2004	23.45	0.47931	CU M/MI	2347.613636	CU M
SP4	Day 1	08.28.2004	23.5	0.46956	CU M/MI	2349.69697	CU M
SP4	Day 1	08.28.2004	23.55	0	CU M/MI	2350.871212	CU M
SP4	Day 1	08.29.2004	0	0.48238	CU M/MI	2352.007576	CU M
SP4	Day 1	08.29.2004	0.05	0.14281	CU M/MI	2353.295455	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 1	08.29.2004	0.1	0.07616	CU M/MI	2353.977273	CU M
SP4	Day 1	08.29.2004	0.15	0.14308	CU M/MI	2354.772727	CU M
SP4	Day 1	08.29.2004	0.2	0.48331	CU M/MI	2356.818182	CU M
SP4	Day 1	08.29.2004	0.25	0.48512	CU M/MI	2359.242424	CU M
SP4	Day 1	08.29.2004	0.3	0.27835	CU M/MI	2360.454545	CU M
SP4	Day 1	08.29.2004	0.35	0.45216	CU M/MI	2361.780303	CU M
SP4	Day 1	08.29.2004	0.4	0	CU M/MI	2363.712121	CU M
SP4	Day 1	08.29.2004	0.45	0.13322	CU M/MI	2364.431818	CU M
SP4	Day 1	08.29.2004	0.5	0.44986	CU M/MI	2366.439394	CU M
SP4	Day 1	08.29.2004	0.55	0.00119	CU M/MI	2366.931818	CU M
SP4	Day 1	08.29.2004	1	0.48397	CU M/MI	2368.674242	CU M
SP4	Day 1	08.29.2004	1.05	0.44364	CU M/MI	2370.037879	CU M
SP4	Day 1	08.29.2004	1.1	0.26863	CU M/MI	2371.136364	CU M
SP4	Day 1	08.29.2004	1.15	0.25383	CU M/MI	2372.537879	CU M
SP4	Day 1	08.29.2004	1.2	0.44874	CU M/MI	2374.469697	CU M
SP4	Day 1	08.29.2004	1.25	0	CU M/MI	2375.113636	CU M
SP4	Day 1	08.29.2004	1.3	0.45059	CU M/MI	2376.666667	CU M
SP4	Day 1	08.29.2004	1.35	0.00514	CU M/MI	2378.295455	CU M
SP4	Day 1	08.29.2004	1.4	0.00075	CU M/MI	2379.356061	CU M
SP4	Day 1	08.29.2004	1.45	0.29265	CU M/MI	2380.719697	CU M
SP4	Day 1	08.29.2004	1.5	0.3659	CU M/MI	2381.477273	CU M
SP4	Day 1	08.29.2004	1.55	0.13885	CU M/MI	2382.613636	CU M
SP4	Day 1	08.29.2004	2	0.24898	CU M/MI	2383.75	CU M
SP4	Day 1	08.29.2004	2.05	0.48146	CU M/MI	2385.151515	CU M
SP4	Day 1	08.29.2004	2.1	0.44869	CU M/MI	2387.462121	CU M
SP4	Day 1	08.29.2004	2.15	0	CU M/MI	2387.765152	CU M
SP4	Day 1	08.29.2004	2.2	0.48194	CU M/MI	2388.863636	CU M
SP4	Day 1	08.29.2004	2.25	0.00192	CU M/MI	2390.871212	CU M
SP4	Day 1	08.29.2004	2.3	0.25881	CU M/MI	2391.931818	CU M
SP4	Day 1	08.29.2004	2.35	0.37104	CU M/MI	2393.560606	CU M
SP4	Day 1	08.29.2004	2.4	0	CU M/MI	2394.166667	CU M
SP4	Day 1	08.29.2004	2.45	0.3352	CU M/MI	2396.25	CU M
SP4	Day 1	08.29.2004	2.5	0.37909	CU M/MI	2397.007576	CU M
SP4	Day 1	08.29.2004	2.55	0.4448	CU M/MI	2398.295455	CU M
SP4	Day 1	08.29.2004	3	0	CU M/MI	2399.848485	CU M
SP4	Day 1	08.29.2004	3.05	0.39151	CU M/MI	2400.795455	CU M
SP4	Day 1	08.29.2004	3.1	0.01466	CU M/MI	2402.916667	CU M
SP4	Day 1	08.29.2004	3.15	0.01531	CU M/MI	2404.090909	CU M
SP4	Day 1	08.29.2004	3.2	0.33315	CU M/MI	2405.416667	CU M
SP4	Day 1	08.29.2004	3.25	0	CU M/MI	2405.871212	CU M
SP4	Day 1	08.29.2004	3.3	0.47551	CU M/MI	2407.651515	CU M
SP4	Day 1	08.29.2004	3.35	0.44337	CU M/MI	2409.318182	CU M
SP4	Day 1	08.29.2004	3.4	0.23914	CU M/MI	2410.113636	CU M
SP4	Day 1	08.29.2004	3.45	0.03924	CU M/MI	2411.628788	CU M
SP4	Day 1	08.29.2004	3.5	0.34792	CU M/MI	2413.068182	CU M
SP4	Day 1	08.29.2004	3.55	0.39691	CU M/MI	2414.734848	CU M
SP4	Day 1	08.29.2004	4	0	CU M/MI	2414.810606	CU M
SP4	Day 1	08.29.2004	4.05	0.42862	CU M/MI	2416.515152	CU M
SP4	Day 1	08.29.2004	4.1	0.34738	CU M/MI	2418.409091	CU M
SP4	Day 1	08.29.2004	4.15	0	CU M/MI	2419.583333	CU M
SP4	Day 1	08.29.2004	4.2	0.03005	CU M/MI	2420.530303	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 1	08.29.2004	4.25	0.40135	CU M/MI	2422.424242	CU M
SP4	Day 1	08.29.2004	4.3	0	CU M/MI	2424.015152	CU M
SP4	Day 1	08.29.2004	4.35	0	CU M/MI	2424.015152	CU M
SP4	Day 1	08.29.2004	4.4	0	CU M/MI	2423.977273	CU M
SP4	Day 1	08.29.2004	4.45	0	CU M/MI	2423.939394	CU M
SP4	Day 1	08.29.2004	4.5	0	CU M/MI	2423.939394	CU M
SP4	Day 1	08.29.2004	4.55	0	CU M/MI	2423.939394	CU M
SP4	Day 1	08.29.2004	5	0.17709	CU M/MI	2424.393939	CU M
SP4	Day 1	08.29.2004	5.05	0	CU M/MI	2425.037879	CU M
SP4	Day 1	08.29.2004	5.1	0.15337	CU M/MI	2425.719697	CU M
SP4	Day 1	08.29.2004	5.15	0	CU M/MI	2425.94697	CU M
SP4	Day 1	08.29.2004	5.2	0	CU M/MI	2425.909091	CU M
SP4	Day 1	08.29.2004	5.25	0	CU M/MI	2425.909091	CU M
SP4	Day 1	08.29.2004	5.3	0.28094	CU M/MI	2426.098485	CU M
SP4	Day 1	08.29.2004	5.35	0	CU M/MI	2426.439394	CU M
SP4	Day 1	08.29.2004	5.4	0.26591	CU M/MI	2426.931818	CU M
SP4	Day 1	08.29.2004	5.45	0	CU M/MI	2428.068182	CU M
SP4	Day 1	08.29.2004	5.5	0	CU M/MI	2428.068182	CU M
SP4	Day 1	08.29.2004	5.55	0	CU M/MI	2428.030303	CU M
SP4	Day 2	08.29.2004	6	0	CU M/MI	2428.030303	CU M
SP4	Day 2	08.29.2004	6.05	0	CU M/MI	2428.257576	CU M
SP4	Day 2	08.29.2004	6.1	0	CU M/MI	2428.257576	CU M
SP4	Day 2	08.29.2004	6.15	0	CU M/MI	2428.257576	CU M
SP4	Day 2	08.29.2004	6.2	0	CU M/MI	2428.219697	CU M
SP4	Day 2	08.29.2004	6.25	0.03377	CU M/MI	2428.219697	CU M
SP4	Day 2	08.29.2004	6.3	0	CU M/MI	2428.181818	CU M
SP4	Day 2	08.29.2004	6.35	0	CU M/MI	2428.143939	CU M
SP4	Day 2	08.29.2004	6.4	0	CU M/MI	2428.143939	CU M
SP4	Day 2	08.29.2004	6.45	0.25305	CU M/MI	2428.333333	CU M
SP4	Day 2	08.29.2004	6.5	0.25941	CU M/MI	2429.280303	CU M
SP4	Day 2	08.29.2004	6.55	0	CU M/MI	2429.810606	CU M
SP4	Day 2	08.29.2004	7	0	CU M/MI	2429.810606	CU M
SP4	Day 2	08.29.2004	7.05	0	CU M/MI	2429.810606	CU M
SP4	Day 2	08.29.2004	7.1	0	CU M/MI	2430.113636	CU M
SP4	Day 2	08.29.2004	7.15	0	CU M/MI	2430.113636	CU M
SP4	Day 2	08.29.2004	7.2	0	CU M/MI	2430.113636	CU M
SP4	Day 2	08.29.2004	7.25	0	CU M/MI	2430.113636	CU M
SP4	Day 2	08.29.2004	7.3	0	CU M/MI	2430.113636	CU M
SP4	Day 2	08.29.2004	7.35	0	CU M/MI	2430.113636	CU M
SP4	Day 2	08.29.2004	7.4	0	CU M/MI	2431.363636	CU M
SP4	Day 2	08.29.2004	7.45	0.00163	CU M/MI	2432.121212	CU M
SP4	Day 2	08.29.2004	7.5	0.02925	CU M/MI	2432.310606	CU M
SP4	Day 2	08.29.2004	7.55	0.01003	CU M/MI	2432.424242	CU M
SP4	Day 2	08.29.2004	8	0.13852	CU M/MI	2433.674242	CU M
SP4	Day 2	08.29.2004	8.05	0.19007	CU M/MI	2434.659091	CU M
SP4	Day 2	08.29.2004	8.1	0.1843	CU M/MI	2435.530303	CU M
SP4	Day 2	08.29.2004	8.15	0.03089	CU M/MI	2436.212121	CU M
SP4	Day 2	08.29.2004	8.2	0.2736	CU M/MI	2436.515152	CU M
SP4	Day 2	08.29.2004	8.25	0.05075	CU M/MI	2436.818182	CU M
SP4	Day 2	08.29.2004	8.3	0.37942	CU M/MI	2437.272727	CU M
SP4	Day 2	08.29.2004	8.35	0.3845	CU M/MI	2439.621212	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 2	08.29.2004	8.4	0.39615	CU M/MI	2441.856061	CU M
SP4	Day 2	08.29.2004	8.45	0.4956	CU M/MI	2444.128788	CU M
SP4	Day 2	08.29.2004	8.5	0.4941	CU M/MI	2446.363636	CU M
SP4	Day 2	08.29.2004	8.55	0.49385	CU M/MI	2448.598485	CU M
SP4	Day 2	08.29.2004	9	0.35195	CU M/MI	2450.984848	CU M
SP4	Day 2	08.29.2004	9.05	0.48227	CU M/MI	2453.030303	CU M
SP4	Day 2	08.29.2004	9.1	0.49578	CU M/MI	2455.492424	CU M
SP4	Day 2	08.29.2004	9.15	0.01991	CU M/MI	2456.628788	CU M
SP4	Day 2	08.29.2004	9.2	0.25727	CU M/MI	2457.575758	CU M
SP4	Day 2	08.29.2004	9.25	0.45847	CU M/MI	2459.05303	CU M
SP4	Day 2	08.29.2004	9.3	0.13928	CU M/MI	2459.924242	CU M
SP4	Day 2	08.29.2004	9.35	0.45689	CU M/MI	2461.628788	CU M
SP4	Day 2	08.29.2004	9.4	0.37816	CU M/MI	2463.106061	CU M
SP4	Day 2	08.29.2004	9.45	0.36355	CU M/MI	2463.75	CU M
SP4	Day 2	08.29.2004	9.5	0	CU M/MI	2464.69697	CU M
SP4	Day 2	08.29.2004	9.55	0	CU M/MI	2464.69697	CU M
SP4	Day 2	08.29.2004	10	0.36872	CU M/MI	2465.757576	CU M
SP4	Day 2	08.29.2004	10.05	0	CU M/MI	2466.666667	CU M
SP4	Day 2	08.29.2004	10.1	0.26107	CU M/MI	2466.969697	CU M
SP4	Day 2	08.29.2004	10.15	0.25643	CU M/MI	2468.143939	CU M
SP4	Day 2	08.29.2004	10.2	0.16354	CU M/MI	2469.848485	CU M
SP4	Day 2	08.29.2004	10.25	0.31804	CU M/MI	2470.643939	CU M
SP4	Day 2	08.29.2004	10.3	0.19125	CU M/MI	2472.159091	CU M
SP4	Day 2	08.29.2004	10.35	0.25019	CU M/MI	2473.409091	CU M
SP4	Day 2	08.29.2004	10.4	0.40464	CU M/MI	2474.393939	CU M
SP4	Day 2	08.29.2004	10.45	0.46202	CU M/MI	2476.55303	CU M
SP4	Day 2	08.29.2004	10.5	0.05494	CU M/MI	2477.80303	CU M
SP4	Day 2	08.29.2004	10.55	0.38411	CU M/MI	2479.318182	CU M
SP4	Day 2	08.29.2004	11	0.02079	CU M/MI	2479.886364	CU M
SP4	Day 2	08.29.2004	11.05	0.16424	CU M/MI	2481.704545	CU M
SP4	Day 2	08.29.2004	11.1	0.14399	CU M/MI	2481.969697	CU M
SP4	Day 2	08.29.2004	11.15	0.1671	CU M/MI	2482.613636	CU M
SP4	Day 2	08.29.2004	11.2	0.13634	CU M/MI	2483.484848	CU M
SP4	Day 2	08.29.2004	11.25	0.392	CU M/MI	2485.151515	CU M
SP4	Day 2	08.29.2004	11.3	0.36317	CU M/MI	2487.575758	CU M
SP4	Day 2	08.29.2004	11.35	0.2782	CU M/MI	2488.44697	CU M
SP4	Day 2	08.29.2004	11.4	0.46017	CU M/MI	2490.454545	CU M
SP4	Day 2	08.29.2004	11.45	0.02369	CU M/MI	2491.55303	CU M
SP4	Day 2	08.29.2004	11.5	0.45902	CU M/MI	2491.893939	CU M
SP4	Day 2	08.29.2004	11.55	0.02659	CU M/MI	2492.80303	CU M
SP4	Day 2	08.29.2004	12	0	CU M/MI	2493.522727	CU M
SP4	Day 2	08.29.2004	12.05	0.49934	CU M/MI	2494.545455	CU M
SP4	Day 2	08.29.2004	12.1	0.2995	CU M/MI	2495.833333	CU M
SP4	Day 2	08.29.2004	12.15	0.261	CU M/MI	2497.765152	CU M
SP4	Day 2	08.29.2004	12.2	0.25413	CU M/MI	2498.598485	CU M
SP4	Day 2	08.29.2004	12.25	0.45953	CU M/MI	2500.189394	CU M
SP4	Day 2	08.29.2004	12.3	0.01672	CU M/MI	2501.287879	CU M
SP4	Day 2	08.29.2004	12.35	0.48722	CU M/MI	2501.666667	CU M
SP4	Day 2	08.29.2004	12.4	0.11111	CU M/MI	2504.090909	CU M
SP4	Day 2	08.29.2004	12.45	0.33934	CU M/MI	2504.962121	CU M
SP4	Day 2	08.29.2004	12.5	0.03909	CU M/MI	2506.818182	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 2	08.29.2004	12.55	0.03889	CU M/MI	2507.840909	CU M
SP4	Day 2	08.29.2004	13	0.26022	CU M/MI	2509.659091	CU M
SP4	Day 2	08.29.2004	13.05	0	CU M/MI	2509.924242	CU M
SP4	Day 2	08.29.2004	13.1	0.49634	CU M/MI	2510.113636	CU M
SP4	Day 2	08.29.2004	13.15	0.02413	CU M/MI	2512.159091	CU M
SP4	Day 2	08.29.2004	13.2	0.48944	CU M/MI	2512.954545	CU M
SP4	Day 2	08.29.2004	13.25	0.46186	CU M/MI	2515.113636	CU M
SP4	Day 2	08.29.2004	13.3	0.02509	CU M/MI	2515.454545	CU M
SP4	Day 2	08.29.2004	13.35	0.49434	CU M/MI	2517.234848	CU M
SP4	Day 2	08.29.2004	13.4	0	CU M/MI	2518.219697	CU M
SP4	Day 2	08.29.2004	13.45	0.09656	CU M/MI	2519.886364	CU M
SP4	Day 2	08.29.2004	13.5	0.37528	CU M/MI	2521.098485	CU M
SP4	Day 2	08.29.2004	13.55	0.1997	CU M/MI	2522.992424	CU M
SP4	Day 2	08.29.2004	14	0.02834	CU M/MI	2523.522727	CU M
SP4	Day 2	08.29.2004	14.05	0.16028	CU M/MI	2523.901515	CU M
SP4	Day 2	08.29.2004	14.1	0.14447	CU M/MI	2524.659091	CU M
SP4	Day 2	08.29.2004	14.15	0.49331	CU M/MI	2526.098485	CU M
SP4	Day 2	08.29.2004	14.2	0.26965	CU M/MI	2527.765152	CU M
SP4	Day 2	08.29.2004	14.25	0.28028	CU M/MI	2528.977273	CU M
SP4	Day 2	08.29.2004	14.3	0	CU M/MI	2529.242424	CU M
SP4	Day 2	08.29.2004	14.35	0.37558	CU M/MI	2530.037879	CU M
SP4	Day 2	08.29.2004	14.4	0	CU M/MI	2531.818182	CU M
SP4	Day 2	08.29.2004	14.45	0.1805	CU M/MI	2532.386364	CU M
SP4	Day 2	08.29.2004	14.5	0.49721	CU M/MI	2533.901515	CU M
SP4	Day 2	08.29.2004	14.55	0.49687	CU M/MI	2536.136364	CU M
SP4	Day 2	08.29.2004	15	0.03051	CU M/MI	2537.19697	CU M
SP4	Day 2	08.29.2004	15.05	0.46171	CU M/MI	2539.128788	CU M
SP4	Day 2	08.29.2004	15.1	0.13626	CU M/MI	2540.416667	CU M
SP4	Day 2	08.29.2004	15.15	0.03864	CU M/MI	2542.007576	CU M
SP4	Day 2	08.29.2004	15.2	0.01689	CU M/MI	2543.409091	CU M
SP4	Day 2	08.29.2004	15.25	0.41168	CU M/MI	2544.128788	CU M
SP4	Day 2	08.29.2004	15.3	0	CU M/MI	2545.037879	CU M
SP4	Day 2	08.29.2004	15.35	0	CU M/MI	2544.962121	CU M
SP4	Day 2	08.29.2004	15.4	0	CU M/MI	2544.962121	CU M
SP4	Day 2	08.29.2004	15.45	0	CU M/MI	2544.924242	CU M
SP4	Day 2	08.29.2004	15.5	0	CU M/MI	2544.886364	CU M
SP4	Day 2	08.29.2004	15.55	0	CU M/MI	2544.886364	CU M
SP4	Day 2	08.29.2004	16	0	CU M/MI	2544.848485	CU M
SP4	Day 2	08.29.2004	16.05	0	CU M/MI	2544.848485	CU M
SP4	Day 2	08.29.2004	16.1	0	CU M/MI	2544.810606	CU M
SP4	Day 2	08.29.2004	16.15	0	CU M/MI	2544.772727	CU M
SP4	Day 2	08.29.2004	16.2	0	CU M/MI	2544.772727	CU M
SP4	Day 2	08.29.2004	16.25	0	CU M/MI	2544.734848	CU M
SP4	Day 2	08.29.2004	16.3	0	CU M/MI	2544.69697	CU M
SP4	Day 2	08.29.2004	16.35	0	CU M/MI	2544.69697	CU M
SP4	Day 2	08.29.2004	16.4	0	CU M/MI	2544.659091	CU M
SP4	Day 2	08.29.2004	16.45	0	CU M/MI	2544.659091	CU M
SP4	Day 2	08.29.2004	16.5	0	CU M/MI	2544.621212	CU M
SP4	Day 2	08.29.2004	16.55	0	CU M/MI	2544.583333	CU M
SP4	Day 2	08.29.2004	17	0	CU M/MI	2544.583333	CU M
SP4	Day 2	08.29.2004	17.05	0	CU M/MI	2544.545455	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 2	08.29.2004	17.1	0	CU M/MI	2544.507576	CU M
SP4	Day 2	08.29.2004	17.15	0	CU M/MI	2544.507576	CU M
SP4	Day 2	08.29.2004	17.2	0	CU M/MI	2544.469697	CU M
SP4	Day 2	08.29.2004	17.25	0	CU M/MI	2544.431818	CU M
SP4	Day 2	08.29.2004	17.3	0.01049	CU M/MI	2544.431818	CU M
SP4	Day 2	08.29.2004	17.45	0.45836	CU M/MI	2550.189394	CU M
SP4	Day 2	08.29.2004	17.5	0	CU M/MI	2551.969697	CU M
SP4	Day 2	08.29.2004	17.55	0.17081	CU M/MI	2552.878788	CU M
SP4	Day 2	08.29.2004	18	0.14716	CU M/MI	2553.674242	CU M
SP4	Day 2	08.29.2004	18.05	0.5204	CU M/MI	2554.356061	CU M
SP4	Day 2	08.29.2004	18.1	0.49177	CU M/MI	2556.666667	CU M
SP4	Day 2	08.29.2004	18.15	0.49228	CU M/MI	2559.128788	CU M
SP4	Day 2	08.29.2004	18.2	0.49264	CU M/MI	2561.590909	CU M
SP4	Day 2	08.29.2004	18.25	0.4932	CU M/MI	2564.05303	CU M
SP4	Day 2	08.29.2004	18.3	0.4909	CU M/MI	2566.515152	CU M
SP4	Day 2	08.29.2004	18.35	0.37359	CU M/MI	2568.787879	CU M
SP4	Day 2	08.29.2004	18.4	0.49237	CU M/MI	2571.212121	CU M
SP4	Day 2	08.29.2004	18.45	0.376	CU M/MI	2573.598485	CU M
SP4	Day 2	08.29.2004	18.5	0.49175	CU M/MI	2575.681818	CU M
SP4	Day 2	08.29.2004	18.55	0.49042	CU M/MI	2578.143939	CU M
SP4	Day 2	08.29.2004	19	0.4894	CU M/MI	2580.606061	CU M
SP4	Day 2	08.29.2004	19.05	0.48948	CU M/MI	2583.030303	CU M
SP4	Day 2	08.29.2004	19.1	0.48978	CU M/MI	2585.265152	CU M
SP4	Day 2	08.29.2004	19.15	0.48807	CU M/MI	2587.727273	CU M
SP4	Day 2	08.29.2004	19.2	0.02411	CU M/MI	2589.583333	CU M
SP4	Day 2	08.29.2004	19.25	0	CU M/MI	2589.962121	CU M
SP4	Day 2	08.29.2004	19.3	0.40427	CU M/MI	2590.568182	CU M
SP4	Day 2	08.29.2004	19.35	0.49638	CU M/MI	2592.840909	CU M
SP4	Day 2	08.29.2004	19.4	0.49257	CU M/MI	2595.30303	CU M
SP4	Day 2	08.29.2004	19.45	0.27492	CU M/MI	2597.386364	CU M
SP4	Day 2	08.29.2004	19.5	0.26368	CU M/MI	2598.560606	CU M
SP4	Day 2	08.29.2004	19.55	0	CU M/MI	2599.015152	CU M
SP4	Day 2	08.29.2004	20	0.03718	CU M/MI	2599.204545	CU M
SP4	Day 2	08.29.2004	20.05	0.23621	CU M/MI	2599.318182	CU M
SP4	Day 2	08.29.2004	20.1	0.05727	CU M/MI	2599.583333	CU M
SP4	Day 2	08.29.2004	20.15	0.2658	CU M/MI	2600.416667	CU M
SP4	Day 2	08.29.2004	20.2	0.3716	CU M/MI	2602.045455	CU M
SP4	Day 2	08.29.2004	20.25	0.24763	CU M/MI	2603.143939	CU M
SP4	Day 2	08.29.2004	20.3	0.49456	CU M/MI	2605.113636	CU M
SP4	Day 2	08.29.2004	20.35	0.38324	CU M/MI	2607.537879	CU M
SP4	Day 2	08.29.2004	20.4	0.49312	CU M/MI	2609.848485	CU M
SP4	Day 2	08.29.2004	20.45	0.49387	CU M/MI	2612.310606	CU M
SP4	Day 2	08.29.2004	20.5	0.49361	CU M/MI	2614.090909	CU M
SP4	Day 2	08.29.2004	20.55	0.49528	CU M/MI	2616.55303	CU M
SP4	Day 2	08.29.2004	21	0.4916	CU M/MI	2618.787879	CU M
SP4	Day 2	08.29.2004	21.05	0.46014	CU M/MI	2621.174242	CU M
SP4	Day 2	08.29.2004	21.1	0.29111	CU M/MI	2622.424242	CU M
SP4	Day 2	08.29.2004	21.15	0.45811	CU M/MI	2624.507576	CU M
SP4	Day 2	08.29.2004	21.2	0.00581	CU M/MI	2625.492424	CU M
SP4	Day 2	08.29.2004	21.25	0.04071	CU M/MI	2627.045455	CU M
SP4	Day 2	08.29.2004	21.3	0.3758	CU M/MI	2627.916667	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 2	08.29.2004	21.35	0.01142	CU M/MI	2628.939394	CU M
SP4	Day 2	08.29.2004	21.4	0.41098	CU M/MI	2631.174242	CU M
SP4	Day 2	08.29.2004	21.45	0.00951	CU M/MI	2632.272727	CU M
SP4	Day 2	08.29.2004	21.5	0.01043	CU M/MI	2633.863636	CU M
SP4	Day 2	08.29.2004	21.55	0.00671	CU M/MI	2634.772727	CU M
SP4	Day 2	08.29.2004	22	0.27207	CU M/MI	2636.55303	CU M
SP4	Day 2	08.29.2004	22.05	0.25892	CU M/MI	2637.80303	CU M
SP4	Day 2	08.29.2004	22.1	0.26095	CU M/MI	2639.545455	CU M
SP4	Day 2	08.29.2004	22.15	0.00491	CU M/MI	2641.022727	CU M
SP4	Day 2	08.29.2004	22.2	0.48709	CU M/MI	2641.401515	CU M
SP4	Day 2	08.29.2004	22.25	0.37411	CU M/MI	2643.75	CU M
SP4	Day 2	08.29.2004	22.3	0.44226	CU M/MI	2644.962121	CU M
SP4	Day 2	08.29.2004	22.35	0.45762	CU M/MI	2647.234848	CU M
SP4	Day 2	08.29.2004	22.4	0.38983	CU M/MI	2647.916667	CU M
SP4	Day 2	08.29.2004	22.45	0.45731	CU M/MI	2650.075758	CU M
SP4	Day 2	08.29.2004	22.5	0	CU M/MI	2650.189394	CU M
SP4	Day 2	08.29.2004	22.55	0.24084	CU M/MI	2651.022727	CU M
SP4	Day 2	08.29.2004	23	0.48684	CU M/MI	2651.55303	CU M
SP4	Day 2	08.29.2004	23.05	0.49087	CU M/MI	2654.015152	CU M
SP4	Day 2	08.29.2004	23.1	0	CU M/MI	2655.643939	CU M
SP4	Day 2	08.29.2004	23.15	0.07593	CU M/MI	2656.55303	CU M
SP4	Day 2	08.29.2004	23.2	0.14351	CU M/MI	2657.19697	CU M
SP4	Day 2	08.29.2004	23.25	0.45523	CU M/MI	2658.030303	CU M
SP4	Day 2	08.29.2004	23.3	0.49127	CU M/MI	2660.30303	CU M
SP4	Day 2	08.29.2004	23.35	0.45864	CU M/MI	2661.666667	CU M
SP4	Day 2	08.29.2004	23.4	0.40833	CU M/MI	2663.560606	CU M
SP4	Day 2	08.29.2004	23.45	0.00804	CU M/MI	2664.621212	CU M
SP4	Day 2	08.29.2004	23.5	0.46113	CU M/MI	2666.742424	CU M
SP4	Day 2	08.29.2004	23.55	0.00659	CU M/MI	2667.386364	CU M
SP4	Day 2	08.30.2004	0	0.49084	CU M/MI	2669.05303	CU M
SP4	Day 2	08.30.2004	0.05	0.2655	CU M/MI	2670.757576	CU M
SP4	Day 2	08.30.2004	0.1	0.25439	CU M/MI	2671.856061	CU M
SP4	Day 2	08.30.2004	0.15	0.00966	CU M/MI	2672.80303	CU M
SP4	Day 2	08.30.2004	0.2	0.49173	CU M/MI	2674.166667	CU M
SP4	Day 2	08.30.2004	0.25	0.45858	CU M/MI	2676.477273	CU M
SP4	Day 2	08.30.2004	0.3	0.38984	CU M/MI	2677.272727	CU M
SP4	Day 2	08.30.2004	0.35	0.45149	CU M/MI	2678.863636	CU M
SP4	Day 2	08.30.2004	0.4	0.00996	CU M/MI	2679.772727	CU M
SP4	Day 2	08.30.2004	0.45	0.48922	CU M/MI	2681.439394	CU M
SP4	Day 2	08.30.2004	0.5	0.00766	CU M/MI	2682.916667	CU M
SP4	Day 2	08.30.2004	0.55	0.32809	CU M/MI	2684.204545	CU M
SP4	Day 2	08.30.2004	1	0.01144	CU M/MI	2685.416667	CU M
SP4	Day 2	08.30.2004	1.05	0.4574	CU M/MI	2687.121212	CU M
SP4	Day 2	08.30.2004	1.1	0.00517	CU M/MI	2688.787879	CU M
SP4	Day 2	08.30.2004	1.15	0.4562	CU M/MI	2689.318182	CU M
SP4	Day 2	08.30.2004	1.2	0.44876	CU M/MI	2690.94697	CU M
SP4	Day 2	08.30.2004	1.25	0.45493	CU M/MI	2692.575758	CU M
SP4	Day 2	08.30.2004	1.3	0.45395	CU M/MI	2694.848485	CU M
SP4	Day 2	08.30.2004	1.35	0	CU M/MI	2695.075758	CU M
SP4	Day 2	08.30.2004	1.4	0.45529	CU M/MI	2697.007576	CU M
SP4	Day 2	08.30.2004	1.45	0.38357	CU M/MI	2697.954545	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 2	08.30.2004	1.5	0	CU M/MI	2699.848485	CU M
SP4	Day 2	08.30.2004	1.55	0.00195	CU M/MI	2700.833333	CU M
SP4	Day 2	08.30.2004	2	0.48802	CU M/MI	2701.969697	CU M
SP4	Day 2	08.30.2004	2.05	0.36911	CU M/MI	2703.257576	CU M
SP4	Day 2	08.30.2004	2.1	0.14161	CU M/MI	2705.151515	CU M
SP4	Day 2	08.30.2004	2.15	0.25692	CU M/MI	2706.742424	CU M
SP4	Day 2	08.30.2004	2.2	0.2757	CU M/MI	2707.613636	CU M
SP4	Day 2	08.30.2004	2.25	0	CU M/MI	2709.242424	CU M
SP4	Day 2	08.30.2004	2.3	0.00287	CU M/MI	2709.962121	CU M
SP4	Day 2	08.30.2004	2.35	0	CU M/MI	2710.94697	CU M
SP4	Day 2	08.30.2004	2.4	0.44523	CU M/MI	2712.689394	CU M
SP4	Day 2	08.30.2004	2.45	0.27652	CU M/MI	2714.621212	CU M
SP4	Day 2	08.30.2004	2.5	0	CU M/MI	2715.454545	CU M
SP4	Day 2	08.30.2004	2.55	0.44687	CU M/MI	2716.818182	CU M
SP4	Day 2	08.30.2004	3	0.27379	CU M/MI	2718.333333	CU M
SP4	Day 2	08.30.2004	3.05	0.27055	CU M/MI	2719.356061	CU M
SP4	Day 2	08.30.2004	3.1	0.06717	CU M/MI	2720.151515	CU M
SP4	Day 2	08.30.2004	3.15	0.48491	CU M/MI	2722.19697	CU M
SP4	Day 2	08.30.2004	3.2	0.36653	CU M/MI	2723.901515	CU M
SP4	Day 2	08.30.2004	3.25	0.17645	CU M/MI	2725.681818	CU M
SP4	Day 2	08.30.2004	3.3	0.00571	CU M/MI	2726.590909	CU M
SP4	Day 2	08.30.2004	3.35	0.1897	CU M/MI	2727.19697	CU M
SP4	Day 2	08.30.2004	3.4	0.46524	CU M/MI	2728.219697	CU M
SP4	Day 2	08.30.2004	3.45	0.33981	CU M/MI	2730.30303	CU M
SP4	Day 2	08.30.2004	3.5	0.28228	CU M/MI	2732.045455	CU M
SP4	Day 2	08.30.2004	3.55	0.28088	CU M/MI	2733.522727	CU M
SP4	Day 2	08.30.2004	4	0.44825	CU M/MI	2735.265152	CU M
SP4	Day 2	08.30.2004	4.05	0.31058	CU M/MI	2736.628788	CU M
SP4	Day 2	08.30.2004	4.1	0.44941	CU M/MI	2737.916667	CU M
SP4	Day 2	08.30.2004	4.15	0	CU M/MI	2739.469697	CU M
SP4	Day 2	08.30.2004	4.2	0.44784	CU M/MI	2741.174242	CU M
SP4	Day 2	08.30.2004	4.25	0.00047	CU M/MI	2742.424242	CU M
SP4	Day 2	08.30.2004	4.3	0.44919	CU M/MI	2743.143939	CU M
SP4	Day 2	08.30.2004	4.35	0	CU M/MI	2744.583333	CU M
SP4	Day 2	08.30.2004	4.4	0.01809	CU M/MI	2745.681818	CU M
SP4	Day 2	08.30.2004	4.45	0	CU M/MI	2747.19697	CU M
SP4	Day 2	08.30.2004	4.5	0.27194	CU M/MI	2748.143939	CU M
SP4	Day 2	08.30.2004	4.55	0.44556	CU M/MI	2749.772727	CU M
SP4	Day 2	08.30.2004	5	0	CU M/MI	2750.909091	CU M
SP4	Day 2	08.30.2004	5.05	0.27439	CU M/MI	2752.537879	CU M
SP4	Day 2	08.30.2004	5.1	0	CU M/MI	2753.712121	CU M
SP4	Day 2	08.30.2004	5.15	0.47627	CU M/MI	2754.962121	CU M
SP4	Day 2	08.30.2004	5.2	0.37451	CU M/MI	2756.55303	CU M
SP4	Day 2	08.30.2004	5.25	0.44429	CU M/MI	2757.954545	CU M
SP4	Day 2	08.30.2004	5.3	0.25138	CU M/MI	2759.507576	CU M
SP4	Day 2	08.30.2004	5.35	0.47756	CU M/MI	2760.492424	CU M
SP4	Day 2	08.30.2004	5.4	0	CU M/MI	2762.121212	CU M
SP4	Day 2	08.30.2004	5.45	0.43841	CU M/MI	2762.840909	CU M
SP4	Day 2	08.30.2004	5.5	0	CU M/MI	2764.734848	CU M
SP4	Day 2	08.30.2004	5.55	0	CU M/MI	2765.568182	CU M
SP4	Day 3	08.30.2004	6	0.43425	CU M/MI	2767.613636	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 3	08.30.2004	6.05	0	CU M/MI	2768.484848	CU M
SP4	Day 3	08.30.2004	6.1	0.26726	CU M/MI	2769.356061	CU M
SP4	Day 3	08.30.2004	6.15	0.41725	CU M/MI	2770.757576	CU M
SP4	Day 3	08.30.2004	6.2	0.47245	CU M/MI	2772.80303	CU M
SP4	Day 3	08.30.2004	6.25	0.25039	CU M/MI	2774.204545	CU M
SP4	Day 3	08.30.2004	6.3	0.4448	CU M/MI	2775.113636	CU M
SP4	Day 3	08.30.2004	6.35	0.27659	CU M/MI	2777.083333	CU M
SP4	Day 3	08.30.2004	6.4	0.33632	CU M/MI	2778.068182	CU M
SP4	Day 3	08.30.2004	6.45	0.44131	CU M/MI	2779.05303	CU M
SP4	Day 3	08.30.2004	6.5	0.37799	CU M/MI	2780.189394	CU M
SP4	Day 3	08.30.2004	6.55	0.47678	CU M/MI	2782.462121	CU M
SP4	Day 3	08.30.2004	7	0	CU M/MI	2783.333333	CU M
SP4	Day 3	08.30.2004	7.05	0.2473	CU M/MI	2783.636364	CU M
SP4	Day 3	08.30.2004	7.1	0	CU M/MI	2784.280303	CU M
SP4	Day 3	08.30.2004	7.15	0.48271	CU M/MI	2785.492424	CU M
SP4	Day 3	08.30.2004	7.2	0	CU M/MI	2786.439394	CU M
SP4	Day 3	08.30.2004	7.25	0	CU M/MI	2787.5	CU M
SP4	Day 3	08.30.2004	7.3	0.18586	CU M/MI	2788.598485	CU M
SP4	Day 3	08.30.2004	7.35	0	CU M/MI	2789.734848	CU M
SP4	Day 3	08.30.2004	7.4	0	CU M/MI	2789.734848	CU M
SP4	Day 3	08.30.2004	7.45	0	CU M/MI	2789.848485	CU M
SP4	Day 3	08.30.2004	7.5	0.48887	CU M/MI	2790.378788	CU M
SP4	Day 3	08.30.2004	7.55	0.21575	CU M/MI	2792.5	CU M
SP4	Day 3	08.30.2004	8	0.27193	CU M/MI	2793.712121	CU M
SP4	Day 3	08.30.2004	8.05	0.2153	CU M/MI	2795	CU M
SP4	Day 3	08.30.2004	8.1	0.26016	CU M/MI	2796.325758	CU M
SP4	Day 3	08.30.2004	8.15	0.24061	CU M/MI	2797.537879	CU M
SP4	Day 3	08.30.2004	8.2	0.48713	CU M/MI	2799.69697	CU M
SP4	Day 3	08.30.2004	8.25	0.48918	CU M/MI	2802.121212	CU M
SP4	Day 3	08.30.2004	8.3	0.4892	CU M/MI	2804.318182	CU M
SP4	Day 3	08.30.2004	8.35	0.45558	CU M/MI	2806.477273	CU M
SP4	Day 3	08.30.2004	8.4	0.00961	CU M/MI	2807.386364	CU M
SP4	Day 3	08.30.2004	8.45	0	CU M/MI	2807.5	CU M
SP4	Day 3	08.30.2004	8.5	0.25444	CU M/MI	2807.954545	CU M
SP4	Day 3	08.30.2004	8.55	0.19523	CU M/MI	2808.44697	CU M
SP4	Day 3	08.30.2004	9	0.16124	CU M/MI	2809.242424	CU M
SP4	Day 3	08.30.2004	9.05	0.49855	CU M/MI	2810.606061	CU M
SP4	Day 3	08.30.2004	9.1	0.39137	CU M/MI	2812.840909	CU M
SP4	Day 3	08.30.2004	9.15	0.4614	CU M/MI	2814.393939	CU M
SP4	Day 3	08.30.2004	9.2	0.03602	CU M/MI	2815.833333	CU M
SP4	Day 3	08.30.2004	9.25	0.17035	CU M/MI	2817.5	CU M
SP4	Day 3	08.30.2004	9.3	0.26143	CU M/MI	2818.143939	CU M
SP4	Day 3	08.30.2004	9.35	0.25925	CU M/MI	2818.939394	CU M
SP4	Day 3	08.30.2004	9.4	0.26787	CU M/MI	2820.340909	CU M
SP4	Day 3	08.30.2004	9.45	0.02382	CU M/MI	2821.060606	CU M
SP4	Day 3	08.30.2004	9.5	0.26802	CU M/MI	2821.931818	CU M
SP4	Day 3	08.30.2004	9.55	0.3756	CU M/MI	2823.333333	CU M
SP4	Day 3	08.30.2004	10	0	CU M/MI	2825.492424	CU M
SP4	Day 3	08.30.2004	10.05	0.46487	CU M/MI	2826.477273	CU M
SP4	Day 3	08.30.2004	10.1	0.22034	CU M/MI	2826.969697	CU M
SP4	Day 3	08.30.2004	10.15	0.2648	CU M/MI	2828.333333	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 3	08.30.2004	10.2	0.26481	CU M/MI	2829.128788	CU M
SP4	Day 3	08.30.2004	10.25	0.4952	CU M/MI	2831.325758	CU M
SP4	Day 3	08.30.2004	10.3	0.03437	CU M/MI	2832.992424	CU M
SP4	Day 3	08.30.2004	10.35	0.44668	CU M/MI	2833.977273	CU M
SP4	Day 3	08.30.2004	10.4	0.01341	CU M/MI	2835.189394	CU M
SP4	Day 3	08.30.2004	10.45	0.46241	CU M/MI	2836.590909	CU M
SP4	Day 3	08.30.2004	10.5	0	CU M/MI	2838.371212	CU M
SP4	Day 3	08.30.2004	10.55	0	CU M/MI	2839.128788	CU M
SP4	Day 3	08.30.2004	11	0.16488	CU M/MI	2839.962121	CU M
SP4	Day 3	08.30.2004	11.05	0.49747	CU M/MI	2841.363636	CU M
SP4	Day 3	08.30.2004	11.1	0.21104	CU M/MI	2842.159091	CU M
SP4	Day 3	08.30.2004	11.15	0	CU M/MI	2842.537879	CU M
SP4	Day 3	08.30.2004	11.2	0.49468	CU M/MI	2844.242424	CU M
SP4	Day 3	08.30.2004	11.25	0.18565	CU M/MI	2846.363636	CU M
SP4	Day 3	08.30.2004	11.3	0.04222	CU M/MI	2847.5	CU M
SP4	Day 3	08.30.2004	11.35	0.29487	CU M/MI	2848.977273	CU M
SP4	Day 3	08.30.2004	11.4	0.47079	CU M/MI	2849.469697	CU M
SP4	Day 3	08.30.2004	11.45	0.03992	CU M/MI	2851.363636	CU M
SP4	Day 3	08.30.2004	11.5	0.02194	CU M/MI	2853.106061	CU M
SP4	Day 3	08.30.2004	11.55	0.18633	CU M/MI	2853.787879	CU M
SP4	Day 3	08.30.2004	12	0.376	CU M/MI	2854.962121	CU M
SP4	Day 3	08.30.2004	12.05	0.46364	CU M/MI	2857.234848	CU M
SP4	Day 3	08.30.2004	12.1	0.02706	CU M/MI	2858.106061	CU M
SP4	Day 3	08.30.2004	12.15	0.39013	CU M/MI	2858.939394	CU M
SP4	Day 3	08.30.2004	12.2	0.49638	CU M/MI	2860.681818	CU M
SP4	Day 3	08.30.2004	12.25	0.44525	CU M/MI	2862.272727	CU M
SP4	Day 3	08.30.2004	12.3	0.46572	CU M/MI	2864.05303	CU M
SP4	Day 3	08.30.2004	12.35	0.02415	CU M/MI	2864.810606	CU M
SP4	Day 3	08.30.2004	12.4	0.38867	CU M/MI	2866.55303	CU M
SP4	Day 3	08.30.2004	12.45	0.46181	CU M/MI	2867.045455	CU M
SP4	Day 3	08.30.2004	12.5	0.3905	CU M/MI	2868.825758	CU M
SP4	Day 3	08.30.2004	12.55	0.13867	CU M/MI	2870.30303	CU M
SP4	Day 3	08.30.2004	13	0.02111	CU M/MI	2871.704545	CU M
SP4	Day 3	08.30.2004	13.05	0.17968	CU M/MI	2872.272727	CU M
SP4	Day 3	08.30.2004	13.1	0.101	CU M/MI	2873.068182	CU M
SP4	Day 3	08.30.2004	13.15	0.49541	CU M/MI	2874.090909	CU M
SP4	Day 3	08.30.2004	13.2	0.40449	CU M/MI	2876.515152	CU M
SP4	Day 3	08.30.2004	13.25	0.35813	CU M/MI	2878.484848	CU M
SP4	Day 3	08.30.2004	13.3	0.46107	CU M/MI	2879.356061	CU M
SP4	Day 3	08.30.2004	13.35	0.004	CU M/MI	2880.719697	CU M
SP4	Day 3	08.30.2004	13.4	0.48925	CU M/MI	2882.19697	CU M
SP4	Day 3	08.30.2004	13.45	0.45924	CU M/MI	2883.409091	CU M
SP4	Day 3	08.30.2004	13.5	0.25864	CU M/MI	2884.659091	CU M
SP4	Day 3	08.30.2004	13.55	0.03058	CU M/MI	2885.984848	CU M
SP4	Day 3	08.30.2004	14	0.30206	CU M/MI	2886.174242	CU M
SP4	Day 3	08.30.2004	14.05	0.39834	CU M/MI	2887.954545	CU M
SP4	Day 3	08.30.2004	14.1	0	CU M/MI	2889.545455	CU M
SP4	Day 3	08.30.2004	14.15	0.02006	CU M/MI	2890.378788	CU M
SP4	Day 3	08.30.2004	14.2	0.4183	CU M/MI	2891.515152	CU M
SP4	Day 3	08.30.2004	14.25	0.39105	CU M/MI	2893.030303	CU M
SP4	Day 3	08.30.2004	14.3	0.01715	CU M/MI	2894.621212	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 3	08.30.2004	14.35	0.49638	CU M/MI	2895.265152	CU M
SP4	Day 3	08.30.2004	14.4	0.46531	CU M/MI	2897.537879	CU M
SP4	Day 3	08.30.2004	14.45	0.46263	CU M/MI	2897.992424	CU M
SP4	Day 3	08.30.2004	14.5	0.35934	CU M/MI	2899.583333	CU M
SP4	Day 3	08.30.2004	14.55	0	CU M/MI	2901.098485	CU M
SP4	Day 3	08.30.2004	15	0.04894	CU M/MI	2902.689394	CU M
SP4	Day 3	08.30.2004	15.05	0.29194	CU M/MI	2903.977273	CU M
SP4	Day 3	08.30.2004	15.1	0	CU M/MI	2904.659091	CU M
SP4	Day 3	08.30.2004	15.15	0	CU M/MI	2905.454545	CU M
SP4	Day 3	08.30.2004	15.2	0.0225	CU M/MI	2906.477273	CU M
SP4	Day 3	08.30.2004	15.25	0.13693	CU M/MI	2907.159091	CU M
SP4	Day 3	08.30.2004	15.3	0.46228	CU M/MI	2909.204545	CU M
SP4	Day 3	08.30.2004	15.35	0.46035	CU M/MI	2910.075758	CU M
SP4	Day 3	08.30.2004	15.4	0.13734	CU M/MI	2911.931818	CU M
SP4	Day 3	08.30.2004	15.45	0.18523	CU M/MI	2912.613636	CU M
SP4	Day 3	08.30.2004	15.5	0.14908	CU M/MI	2913.371212	CU M
SP4	Day 3	08.30.2004	15.55	0.34866	CU M/MI	2914.128788	CU M
SP4	Day 3	08.30.2004	16	0.39198	CU M/MI	2916.401515	CU M
SP4	Day 3	08.30.2004	16.05	0.27265	CU M/MI	2918.371212	CU M
SP4	Day 3	08.30.2004	16.1	0.01209	CU M/MI	2919.090909	CU M
SP4	Day 3	08.30.2004	16.15	0.36966	CU M/MI	2920.037879	CU M
SP4	Day 3	08.30.2004	16.2	0.04212	CU M/MI	2922.007576	CU M
SP4	Day 3	08.30.2004	16.25	0.45896	CU M/MI	2922.424242	CU M
SP4	Day 3	08.30.2004	16.3	0.24132	CU M/MI	2923.674242	CU M
SP4	Day 3	08.30.2004	16.35	0	CU M/MI	2924.507576	CU M
SP4	Day 3	08.30.2004	16.4	0.49848	CU M/MI	2925.719697	CU M
SP4	Day 3	08.30.2004	16.45	0.29556	CU M/MI	2927.689394	CU M
SP4	Day 3	08.30.2004	16.5	0.14231	CU M/MI	2928.977273	CU M
SP4	Day 3	08.30.2004	16.55	0.42847	CU M/MI	2930.075758	CU M
SP4	Day 3	08.30.2004	17	0.03067	CU M/MI	2932.121212	CU M
SP4	Day 3	08.30.2004	17.05	0.45933	CU M/MI	2932.727273	CU M
SP4	Day 3	08.30.2004	17.1	0.38982	CU M/MI	2933.598485	CU M
SP4	Day 3	08.30.2004	17.15	0.07351	CU M/MI	2935.871212	CU M
SP4	Day 3	08.30.2004	17.2	0.18888	CU M/MI	2936.212121	CU M
SP4	Day 3	08.30.2004	17.25	0.16195	CU M/MI	2936.742424	CU M
SP4	Day 3	08.30.2004	17.3	0.14499	CU M/MI	2937.5	CU M
SP4	Day 3	08.30.2004	17.35	0.50812	CU M/MI	2938.219697	CU M
SP4	Day 3	08.30.2004	17.4	0.49384	CU M/MI	2940.719697	CU M
SP4	Day 3	08.30.2004	17.45	0.43543	CU M/MI	2942.80303	CU M
SP4	Day 3	08.30.2004	17.5	0.0281	CU M/MI	2944.128788	CU M
SP4	Day 3	08.30.2004	17.55	0.22407	CU M/MI	2945.492424	CU M
SP4	Day 3	08.30.2004	18	0.14307	CU M/MI	2946.515152	CU M
SP4	Day 3	08.30.2004	18.05	0.25818	CU M/MI	2947.5	CU M
SP4	Day 3	08.30.2004	18.1	0.03967	CU M/MI	2948.484848	CU M
SP4	Day 3	08.30.2004	18.15	0.48542	CU M/MI	2949.848485	CU M
SP4	Day 3	08.30.2004	18.2	0.4656	CU M/MI	2950.871212	CU M
SP4	Day 3	08.30.2004	18.4	0	CU M/MI	2957.234848	CU M
SP4	Day 3	08.30.2004	18.45	0.03244	CU M/MI	2957.310606	
SP4	Day 3	08.30.2004	18.5	0.14964	CU M/MI	2959.583333	
SP4	Day 3	08.30.2004	18.55	0.46504	CU M/MI	2960.378788	
SP4	Day 3	08.30.2004	19	0.02398	CU M/MI	2961.287879	

Appendix B
Raw Flow from Influent (SP-4)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 3	08.30.2004	19.05	0.04148	CU M/MI	2962.689394	
SP4	Day 3	08.30.2004	19.1	0.03553	CU M/MI	2963.825758	
SP4	Day 3	08.30.2004	19.15	0	CU M/MI	2964.469697	
SP4	Day 3	08.30.2004	19.2	0.12643	CU M/MI	2965.151515	
SP4	Day 3	08.30.2004	19.25	0.46456	CU M/MI	2966.969697	
SP4	Day 3	08.30.2004	19.3	0.05756	CU M/MI	2968.787879	
SP4	Day 3	08.30.2004	19.35	0.03024	CU M/MI	2968.825758	
SP4	Day 3	08.30.2004	19.4	0.46271	CU M/MI	2970.833333	
SP4	Day 3	08.30.2004	19.45	0.39851	CU M/MI	2972.083333	
SP4	Day 3	08.30.2004	19.5	0.33462	CU M/MI	2972.992424	
SP4	Day 3	08.30.2004	19.55	0.27215	CU M/MI	2973.901515	
SP4	Day 3	08.30.2004	20	-0.0414	CU M/MI	2974.356061	
SP4	Day 3	08.30.2004	20.05	0	CU M/MI	2975.037879	
SP4	Day 3	08.30.2004	20.1	0.14638	CU M/MI	2975.643939	
SP4	Day 3	08.30.2004	20.15	0.48523	CU M/MI	2976.55303	
SP4	Day 3	08.30.2004	20.2	0.49673	CU M/MI	2979.05303	
SP4	Day 3	08.30.2004	20.25	-0.02323	CU M/MI	2980.681818	
SP4	Day 3	08.30.2004	20.3	0.02119	CU M/MI	2982.045455	
SP4	Day 3	08.30.2004	20.35	0.49529	CU M/MI	2983.181818	
SP4	Day 3	08.30.2004	20.4	0.01947	CU M/MI	2984.583333	
SP4	Day 3	08.30.2004	20.45	0.26992	CU M/MI	2986.174242	
SP4	Day 3	08.30.2004	20.5	-0.02053	CU M/MI	2987.272727	
SP4	Day 3	08.30.2004	20.55	0.46211	CU M/MI	2988.295455	
SP4	Day 3	08.30.2004	21	0.38754	CU M/MI	2989.659091	
SP4	Day 3	08.30.2004	21.05	0.0186	CU M/MI	2990.454545	
SP4	Day 3	08.30.2004	21.1	0.46208	CU M/MI	2991.515152	
SP4	Day 3	08.30.2004	21.15	0.13698	CU M/MI	2993.181818	
SP4	Day 3	08.30.2004	21.2	0.4599	CU M/MI	2994.545455	
SP4	Day 3	08.30.2004	21.25	0.02504	CU M/MI	2995.757576	
SP4	Day 3	08.30.2004	21.3	0.28002	CU M/MI	2997.045455	
SP4	Day 3	08.30.2004	21.35	0.02198	CU M/MI	2997.5	
SP4	Day 3	08.30.2004	21.4	0.25586	CU M/MI	2997.840909	
SP4	Day 3	08.30.2004	21.45	0	CU M/MI	2998.560606	
SP4	Day 3	08.30.2004	21.5	0.15541	CU M/MI	3000.30303	
SP4	Day 3	08.30.2004	21.55	0.25802	CU M/MI	3001.590909	
SP4	Day 3	08.30.2004	22	-0.05041	CU M/MI	3002.840909	
SP4	Day 3	08.30.2004	22.05	0.49354	CU M/MI	3003.977273	
SP4	Day 3	08.30.2004	22.1	-0.02279	CU M/MI	3005.871212	
SP4	Day 3	08.30.2004	22.15	0.46421	CU M/MI	3006.780303	
SP4	Day 3	08.30.2004	22.2	-0.0476	CU M/MI	3008.484848	
SP4	Day 3	08.30.2004	22.25	0.02687	CU M/MI	3010.075758	
SP4	Day 3	08.30.2004	22.3	0.13907	CU M/MI	3010.871212	
SP4	Day 3	08.30.2004	22.35	0.46408	CU M/MI	3012.121212	
SP4	Day 3	08.30.2004	22.4	-0.02662	CU M/MI	3012.840909	
SP4	Day 3	08.30.2004	22.45	0.03911	CU M/MI	3014.318182	
SP4	Day 3	08.30.2004	22.5	0.14791	CU M/MI	3015.94697	
SP4	Day 3	08.30.2004	22.55	0.26806	CU M/MI	3016.590909	
SP4	Day 3	08.30.2004	23	0.13788	CU M/MI	3017.80303	
SP4	Day 3	08.30.2004	23.05	0.46432	CU M/MI	3019.204545	
SP4	Day 3	08.30.2004	23.1	0.35526	CU M/MI	3020.265152	
SP4	Day 3	08.30.2004	23.15	0.46122	CU M/MI	3022.083333	

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 3	08.30.2004	23.2	0.2033	CU M/MI	3023.295455	
SP4	Day 3	08.30.2004	23.25	0.14905	CU M/MI	3023.863636	
SP4	Day 3	08.30.2004	23.3	0.16011	CU M/MI	3024.242424	
SP4	Day 3	08.30.2004	23.35	0.48978	CU M/MI	3025.037879	
SP4	Day 3	08.30.2004	23.4	0.41443	CU M/MI	3027.159091	
SP4	Day 3	08.30.2004	23.45	0.46104	CU M/MI	3029.05303	
SP4	Day 3	08.30.2004	23.5	0.03633	CU M/MI	3030.227273	
SP4	Day 3	08.30.2004	23.55	0.22942	CU M/MI	3030.643939	
SP4	Day 3	08.31.2004	0	0.26432	CU M/MI	3031.704545	
SP4	Day 3	08.31.2004	0.05	0.49715	CU M/MI	3033.825758	
SP4	Day 3	08.31.2004	0.1	0.46075	CU M/MI	3034.621212	
SP4	Day 3	08.31.2004	0.15	0.06594	CU M/MI	3036.818182	
SP4	Day 3	08.31.2004	0.2	0.01698	CU M/MI	3036.856061	
SP4	Day 3	08.31.2004	0.25	0.46307	CU M/MI	3038.75	
SP4	Day 3	08.31.2004	0.3	0.02372	CU M/MI	3039.621212	
SP4	Day 3	08.31.2004	0.35	0.36734	CU M/MI	3041.439394	
SP4	Day 3	08.31.2004	0.4	0.25796	CU M/MI	3042.689394	
SP4	Day 3	08.31.2004	0.45	-0.01819	CU M/MI	3043.598485	
SP4	Day 3	08.31.2004	0.5	0	CU M/MI	3043.977273	
SP4	Day 3	08.31.2004	0.55	0.35263	CU M/MI	3045.643939	
SP4	Day 3	08.31.2004	1	0.43457	CU M/MI	3046.098485	
SP4	Day 3	08.31.2004	1.05	0.00275	CU M/MI	3048.219697	
SP4	Day 3	08.31.2004	1.1	0.42057	CU M/MI	3049.204545	
SP4	Day 3	08.31.2004	1.15	0.0289	CU M/MI	3050.492424	
SP4	Day 3	08.31.2004	1.2	0.4932	CU M/MI	3051.212121	
SP4	Day 3	08.31.2004	1.25	0.28751	CU M/MI	3052.727273	
SP4	Day 3	08.31.2004	1.3	0.4602	CU M/MI	3054.810606	
SP4	Day 3	08.31.2004	1.35	0.02831	CU M/MI	3055.833333	
SP4	Day 3	08.31.2004	1.4	0.02367	CU M/MI	3057.007576	
SP4	Day 3	08.31.2004	1.45	0.02254	CU M/MI	3057.727273	
SP4	Day 3	08.31.2004	1.5	0.05095	CU M/MI	3059.886364	
SP4	Day 3	08.31.2004	1.55	0.45911	CU M/MI	3060.530303	
SP4	Day 3	08.31.2004	2	-0.05588	CU M/MI	3062.5	
SP4	Day 3	08.31.2004	2.05	0.01321	CU M/MI	3063.409091	
SP4	Day 3	08.31.2004	2.1	0.45558	CU M/MI	3064.393939	
SP4	Day 3	08.31.2004	2.15	0.39622	CU M/MI	3066.022727	
SP4	Day 3	08.31.2004	2.2	0.02544	CU M/MI	3067.651515	
SP4	Day 3	08.31.2004	2.25	-0.04965	CU M/MI	3068.901515	
SP4	Day 3	08.31.2004	2.3	0.38665	CU M/MI	3069.962121	
SP4	Day 3	08.31.2004	2.35	0.2819	CU M/MI	3071.287879	
SP4	Day 3	08.31.2004	2.4	0.15872	CU M/MI	3072.159091	
SP4	Day 3	08.31.2004	2.45	0.25169	CU M/MI	3073.333333	
SP4	Day 3	08.31.2004	2.5	0.39083	CU M/MI	3074.962121	
SP4	Day 3	08.31.2004	2.55	0.45532	CU M/MI	3077.083333	
SP4	Day 3	08.31.2004	3	0.00057	CU M/MI	3077.272727	
SP4	Day 3	08.31.2004	3.05	0.14546	CU M/MI	3078.484848	
SP4	Day 3	08.31.2004	3.1	0.48966	CU M/MI	3080.113636	
SP4	Day 3	08.31.2004	3.15	0.28036	CU M/MI	3081.515152	
SP4	Day 3	08.31.2004	3.2	-0.02403	CU M/MI	3083.371212	
SP4	Day 3	08.31.2004	3.25	0.38206	CU M/MI	3083.939394	
SP4	Day 3	08.31.2004	3.3	-0.00185	CU M/MI	3084.621212	

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 3	08.31.2004	3.35	-0.01141	CU M/MI	3086.401515	
SP4	Day 3	08.31.2004	3.4	0.48672	CU M/MI	3087.765152	
SP4	Day 3	08.31.2004	3.45	0.2587	CU M/MI	3089.545455	
SP4	Day 3	08.31.2004	3.5	0.16928	CU M/MI	3091.401515	
SP4	Day 3	08.31.2004	3.55	-0.00517	CU M/MI	3091.401515	
SP4	Day 3	08.31.2004	4	-0.05277	CU M/MI	3091.780303	
SP4	Day 3	08.31.2004	4.05	0.15745	CU M/MI	3092.5	
SP4	Day 3	08.31.2004	4.1	0.1656	CU M/MI	3093.143939	
SP4	Day 3	08.31.2004	4.15	0.34034	CU M/MI	3095.378788	
SP4	Day 3	08.31.2004	4.2	0.38654	CU M/MI	3097.424242	
SP4	Day 3	08.31.2004	4.25	0.48579	CU M/MI	3098.598485	
SP4	Day 3	08.31.2004	4.3	0.34138	CU M/MI	3100.909091	
SP4	Day 3	08.31.2004	4.35	0.37974	CU M/MI	3101.212121	
SP4	Day 3	08.31.2004	4.4	0.40758	CU M/MI	3103.295455	
SP4	Day 3	08.31.2004	4.45	0.13825	CU M/MI	3104.431818	
SP4	Day 3	08.31.2004	4.5	-0.00515	CU M/MI	3105.189394	
SP4	Day 3	08.31.2004	4.55	0.03653	CU M/MI	3106.628788	
SP4	Day 3	08.31.2004	5	0.48029	CU M/MI	3107.840909	
SP4	Day 3	08.31.2004	5.05	0.2785	CU M/MI	3109.621212	
SP4	Day 3	08.31.2004	5.1	0.19245	CU M/MI	3111.287879	
SP4	Day 3	08.31.2004	5.15	0.38118	CU M/MI	3111.969697	
SP4	Day 3	08.31.2004	5.2	-0.00519	CU M/MI	3112.386364	
SP4	Day 3	08.31.2004	5.25	0.33779	CU M/MI	3114.318182	
SP4	Day 3	08.31.2004	5.3	0.48176	CU M/MI	3115.681818	
SP4	Day 3	08.31.2004	5.35	0.4367	CU M/MI	3116.893939	
SP4	Day 3	08.31.2004	5.4	-0.02512	CU M/MI	3118.219697	
SP4	Day 3	08.31.2004	5.45	0.41904	CU M/MI	3119.05303	
SP4	Day 3	08.31.2004	5.5	0.29788	CU M/MI	3120.265152	
SP4	Day 3	08.31.2004	5.55	0.13751	CU M/MI	3121.439394	
SP4	Day 4	08.31.2004	6	0.3718	CU M/MI	3122.613636	
SP4	Day 4	08.31.2004	6.05	-0.00048	CU M/MI	3124.356061	
SP4	Day 4	08.31.2004	6.1	0.1466	CU M/MI	3124.962121	
SP4	Day 4	08.31.2004	6.15	0.45266	CU M/MI	3126.666667	
SP4	Day 4	08.31.2004	6.2	0.0064	CU M/MI	3127.19697	
SP4	Day 4	08.31.2004	6.25	0.48548	CU M/MI	3129.166667	
SP4	Day 4	08.31.2004	6.3	0.28171	CU M/MI	3130.530303	
SP4	Day 4	08.31.2004	6.35	0.03637	CU M/MI	3130.643939	
SP4	Day 4	08.31.2004	6.4	0	CU M/MI	3131.25	
SP4	Day 4	08.31.2004	6.45	0.48864	CU M/MI	3132.537879	
SP4	Day 4	08.31.2004	6.5	-0.04128	CU M/MI	3133.75	
SP4	Day 4	08.31.2004	6.55	0.17897	CU M/MI	3135.795455	
SP4	Day 4	08.31.2004	7	-0.00057	CU M/MI	3135.795455	
SP4	Day 4	08.31.2004	7.05	0.28692	CU M/MI	3136.931818	
SP4	Day 4	08.31.2004	7.1	0.01961	CU M/MI	3138.901515	
SP4	Day 4	08.31.2004	7.15	0.45758	CU M/MI	3139.583333	
SP4	Day 4	08.31.2004	7.2	0.10477	CU M/MI	3140.795455	
SP4	Day 4	08.31.2004	7.25	0.25856	CU M/MI	3142.121212	
SP4	Day 4	08.31.2004	7.3	0.25707	CU M/MI	3142.80303	
SP4	Day 4	08.31.2004	7.35	0.07553	CU M/MI	3143.825758	
SP4	Day 4	08.31.2004	7.4	0.49014	CU M/MI	3145.151515	
SP4	Day 4	08.31.2004	7.45	0.39261	CU M/MI	3147.159091	

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 4	08.31.2004	7.5	0.35291	CU M/MI	3148.068182	
SP4	Day 4	08.31.2004	7.55	0.02358	CU M/MI	3149.507576	
SP4	Day 4	08.31.2004	8	0.02139	CU M/MI	3149.507576	
SP4	Day 4	08.31.2004	8.05	-0.01383	CU M/MI	3151.363636	
SP4	Day 4	08.31.2004	8.1	0.4628	CU M/MI	3153.068182	
SP4	Day 4	08.31.2004	8.15	0.02664	CU M/MI	3153.712121	
SP4	Day 4	08.31.2004	8.2	0.31973	CU M/MI	3155.454545	
SP4	Day 4	08.31.2004	8.25	0.29714	CU M/MI	3156.931818	
SP4	Day 4	08.31.2004	8.3	0.38641	CU M/MI	3158.030303	
SP4	Day 4	08.31.2004	8.35	0	CU M/MI	3159.090909	
SP4	Day 4	08.31.2004	8.4	0.15208	CU M/MI	3159.280303	
SP4	Day 4	08.31.2004	8.45	0.07866	CU M/MI	3159.962121	
SP4	Day 4	08.31.2004	8.5	0.39441	CU M/MI	3160.757576	
SP4	Day 4	08.31.2004	8.55	0.25454	CU M/MI	3162.007576	
SP4	Day 4	08.31.2004	9	0.368	CU M/MI	3163.560606	
SP4	Day 4	08.31.2004	9.05	0.3951	CU M/MI	3165.681818	
SP4	Day 4	08.31.2004	9.1	0.49577	CU M/MI	3167.840909	
SP4	Day 4	08.31.2004	9.15	-0.05051	CU M/MI	3169.469697	
SP4	Day 4	08.31.2004	9.2	0.0105	CU M/MI	3169.507576	
SP4	Day 4	08.31.2004	9.25	0.49558	CU M/MI	3171.022727	
SP4	Day 4	08.31.2004	9.3	-0.04827	CU M/MI	3172.840909	
SP4	Day 4	08.31.2004	9.35	0.46244	CU M/MI	3173.787879	
SP4	Day 4	08.31.2004	9.4	0.39341	CU M/MI	3175.227273	
SP4	Day 4	08.31.2004	9.45	0.14198	CU M/MI	3176.856061	
SP4	Day 4	08.31.2004	9.5	0.45864	CU M/MI	3177.5	
SP4	Day 4	08.31.2004	9.55	0.03359	CU M/MI	3179.469697	
SP4	Day 4	08.31.2004	10	0.36211	CU M/MI	3180.378788	
SP4	Day 4	08.31.2004	10.05	0.02768	CU M/MI	3181.704545	
SP4	Day 4	08.31.2004	10.1	0.03391	CU M/MI	3183.257576	
SP4	Day 4	08.31.2004	10.15	0.16394	CU M/MI	3184.772727	
SP4	Day 4	08.31.2004	10.2	0.22419	CU M/MI	3185.378788	
SP4	Day 4	08.31.2004	10.25	0.4968	CU M/MI	3186.856061	
SP4	Day 4	08.31.2004	10.3	0.44203	CU M/MI	3189.05303	
SP4	Day 4	08.31.2004	10.35	0.02108	CU M/MI	3189.393939	
SP4	Day 4	08.31.2004	10.4	0.39054	CU M/MI	3190.643939	
SP4	Day 4	08.31.2004	10.45	0.45352	CU M/MI	3191.515152	
SP4	Day 4	08.31.2004	10.5	0.02478	CU M/MI	3193.295455	
SP4	Day 4	08.31.2004	10.55	0.17236	CU M/MI	3194.69697	
SP4	Day 4	08.31.2004	11	0.24083	CU M/MI	3195.227273	
SP4	Day 4	08.31.2004	11.05	0.37764	CU M/MI	3196.022727	
SP4	Day 4	08.31.2004	11.1	0.02721	CU M/MI	3197.19697	
SP4	Day 4	08.31.2004	11.15	0.25477	CU M/MI	3198.106061	
SP4	Day 4	08.31.2004	11.2	0.49205	CU M/MI	3199.659091	
SP4	Day 4	08.31.2004	11.25	0.28081	CU M/MI	3201.287879	
SP4	Day 4	08.31.2004	11.3	0.46168	CU M/MI	3202.727273	
SP4	Day 4	08.31.2004	11.35	0.02744	CU M/MI	3203.560606	
SP4	Day 4	08.31.2004	11.4	0.16855	CU M/MI	3203.939394	
SP4	Day 4	08.31.2004	11.45	0.16622	CU M/MI	3204.772727	
SP4	Day 4	08.31.2004	11.5	0.17201	CU M/MI	3205.568182	
SP4	Day 4	08.31.2004	11.55	0.49456	CU M/MI	3207.689394	
SP4	Day 4	08.31.2004	12	0.37599	CU M/MI	3209.583333	

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 4	08.31.2004	12.05	0.07054	CU M/MI	3211.477273	
SP4	Day 4	08.31.2004	12.1	0.34529	CU M/MI	3211.818182	
SP4	Day 4	08.31.2004	12.15	0.03359	CU M/MI	3213.901515	
SP4	Day 4	08.31.2004	12.2	0.49489	CU M/MI	3214.886364	
SP4	Day 4	08.31.2004	12.25	0.28067	CU M/MI	3216.590909	
SP4	Day 4	08.31.2004	12.3	0.01245	CU M/MI	3216.931818	
SP4	Day 4	08.31.2004	12.35	0.44985	CU M/MI	3218.636364	
SP4	Day 4	08.31.2004	12.4	0.0113	CU M/MI	3219.090909	
SP4	Day 4	08.31.2004	12.45	0	CU M/MI	3220.340909	
SP4	Day 4	08.31.2004	12.5	0.38979	CU M/MI	3222.007576	
SP4	Day 4	08.31.2004	12.55	0.27203	CU M/MI	3223.939394	
SP4	Day 4	08.31.2004	13	0.00446	CU M/MI	3223.977273	
SP4	Day 4	08.31.2004	13.05	0.4589	CU M/MI	3226.022727	
SP4	Day 4	08.31.2004	13.1	0.33781	CU M/MI	3226.742424	
SP4	Day 4	08.31.2004	13.15	0.0049	CU M/MI	3228.560606	
SP4	Day 4	08.31.2004	13.2	0.48872	CU M/MI	3229.810606	
SP4	Day 4	08.31.2004	13.25	0.00118	CU M/MI	3230.757576	
SP4	Day 4	08.31.2004	13.3	0.38913	CU M/MI	3232.19697	
SP4	Day 4	08.31.2004	13.35	0.45731	CU M/MI	3233.939394	
SP4	Day 4	08.31.2004	13.4	0.47318	CU M/MI	3234.128788	
SP4	Day 4	08.31.2004	13.45	0.38651	CU M/MI	3236.136364	
SP4	Day 4	08.31.2004	13.5	0.26257	CU M/MI	3237.234848	
SP4	Day 4	08.31.2004	13.55	0.34028	CU M/MI	3238.598485	
SP4	Day 4	08.31.2004	14	0.00144	CU M/MI	3240.075758	
SP4	Day 4	08.31.2004	14.05	0.38885	CU M/MI	3240.719697	
SP4	Day 4	08.31.2004	14.1	0.24885	CU M/MI	3242.083333	
SP4	Day 4	08.31.2004	14.15	0.24421	CU M/MI	3242.954545	
SP4	Day 4	08.31.2004	14.2	0.38332	CU M/MI	3243.901515	
SP4	Day 4	08.31.2004	14.25	0.45548	CU M/MI	3244.962121	
SP4	Day 4	08.31.2004	14.3	-0.0408	CU M/MI	3246.818182	
SP4	Day 4	08.31.2004	14.35	0.45844	CU M/MI	3247.765152	
SP4	Day 4	08.31.2004	14.4	0.38878	CU M/MI	3249.469697	
SP4	Day 4	08.31.2004	14.45	0.26603	CU M/MI	3250.871212	
SP4	Day 4	08.31.2004	14.5	0.38551	CU M/MI	3251.25	
SP4	Day 4	08.31.2004	14.55	0.45473	CU M/MI	3253.068182	
SP4	Day 4	08.31.2004	15	0.37178	CU M/MI	3253.598485	
SP4	Day 4	08.31.2004	15.05	0.386	CU M/MI	3255.606061	
SP4	Day 4	08.31.2004	15.1	0.45256	CU M/MI	3256.742424	
SP4	Day 4	08.31.2004	15.15	-0.04399	CU M/MI	3257.689394	
SP4	Day 4	08.31.2004	15.2	0.44393	CU M/MI	3258.560606	
SP4	Day 4	08.31.2004	15.25	0.07275	CU M/MI	3260.871212	
SP4	Day 4	08.31.2004	15.3	0.15317	CU M/MI	3261.590909	
SP4	Day 4	08.31.2004	15.35	0.14686	CU M/MI	3262.310606	
SP4	Day 4	08.31.2004	15.4	0.47306	CU M/MI	3263.106061	
SP4	Day 4	08.31.2004	15.45	0.3865	CU M/MI	3265.189394	
SP4	Day 4	08.31.2004	15.5	0.38597	CU M/MI	3266.325758	
SP4	Day 4	08.31.2004	15.55	0.45547	CU M/MI	3267.80303	
SP4	Day 4	08.31.2004	16	-0.00411	CU M/MI	3268.522727	
SP4	Day 4	08.31.2004	16.05	0.48548	CU M/MI	3270.113636	
SP4	Day 4	08.31.2004	16.1	-0.03008	CU M/MI	3272.045455	
SP4	Day 4	08.31.2004	16.15	0.48258	CU M/MI	3272.727273	

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 4	08.31.2004	16.2	-0.03956	CU M/MI	3274.242424	
SP4	Day 4	08.31.2004	16.25	0.25644	CU M/MI	3274.734848	
SP4	Day 4	08.31.2004	16.3	0.18902	CU M/MI	3275.871212	
SP4	Day 4	08.31.2004	16.35	0	CU M/MI	3276.590909	
SP4	Day 4	08.31.2004	16.4	0.38564	CU M/MI	3278.598485	
SP4	Day 4	08.31.2004	16.45	-0.00331	CU M/MI	3279.924242	
SP4	Day 4	08.31.2004	16.5	0.37137	CU M/MI	3281.060606	
SP4	Day 4	08.31.2004	16.55	-0.00547	CU M/MI	3281.55303	
SP4	Day 4	08.31.2004	17	0.0457	CU M/MI	3283.484848	
SP4	Day 4	08.31.2004	17.05	-0.00209	CU M/MI	3283.409091	
SP4	Day 4	08.31.2004	17.1	0	CU M/MI	3283.371212	
SP4	Day 4	08.31.2004	17.15	-0.00316	CU M/MI	3284.848485	
SP4	Day 4	08.31.2004	17.2	0.34735	CU M/MI	3284.772727	
SP4	Day 4	08.31.2004	17.25	0.20938	CU M/MI	3286.212121	
SP4	Day 4	08.31.2004	17.3	0.22096	CU M/MI	3286.590909	
SP4	Day 4	08.31.2004	17.35	0	CU M/MI	3287.159091	
SP4	Day 4	08.31.2004	17.4	-0.03019	CU M/MI	3288.295455	
SP4	Day 4	08.31.2004	17.45	-0.00383	CU M/MI	3288.257576	
SP4	Day 4	08.31.2004	17.5	0.27039	CU M/MI	3289.962121	
SP4	Day 4	08.31.2004	17.55	0.389	CU M/MI	3291.136364	
SP4	Day 4	08.31.2004	18	0.34645	CU M/MI	3292.19697	
SP4	Day 4	08.31.2004	18.05	0.39045	CU M/MI	3293.106061	
SP4	Day 4	08.31.2004	18.1	0.48972	CU M/MI	3295.530303	
SP4	Day 4	08.31.2004	18.15	0.0025	CU M/MI	3296.212121	
SP4	Day 4	08.31.2004	18.2	0.39155	CU M/MI	3297.992424	
SP4	Day 4	08.31.2004	18.25	0.01366	CU M/MI	3298.977273	
SP4	Day 4	08.31.2004	18.3	0.45832	CU M/MI	3300.378788	
SP4	Day 4	08.31.2004	18.35	-0.02185	CU M/MI	3302.348485	
SP4	Day 4	08.31.2004	18.4	0.47014	CU M/MI	3302.613636	
SP4	Day 4	08.31.2004	18.45	0.1901	CU M/MI	3304.393939	CU M
SP4	Day 4	08.31.2004	19.05	0.4578	CU M/MI	3310.113636	CU M
SP4	Day 4	08.31.2004	19.1	0.26554	CU M/MI	3311.590909	CU M
SP4	Day 4	08.31.2004	19.15	0	CU M/MI	3311.931818	CU M
SP4	Day 4	08.31.2004	19.2	0.34869	CU M/MI	3312.651515	CU M
SP4	Day 4	08.31.2004	19.25	0.23074	CU M/MI	3314.507576	CU M
SP4	Day 4	08.31.2004	19.3	0	CU M/MI	3315.454545	CU M
SP4	Day 4	08.31.2004	19.35	0.46254	CU M/MI	3317.083333	CU M
SP4	Day 4	08.31.2004	19.4	0.38453	CU M/MI	3317.840909	CU M
SP4	Day 4	08.31.2004	19.45	0.39183	CU M/MI	3319.962121	CU M
SP4	Day 4	08.31.2004	19.5	0.4598	CU M/MI	3321.098485	CU M
SP4	Day 4	08.31.2004	19.55	0.08073	CU M/MI	3322.121212	CU M
SP4	Day 4	08.31.2004	20	0.06771	CU M/MI	3322.5	CU M
SP4	Day 4	08.31.2004	20.05	0.04685	CU M/MI	3322.727273	CU M
SP4	Day 4	08.31.2004	20.1	0.49443	CU M/MI	3323.560606	CU M
SP4	Day 4	08.31.2004	20.15	0.4908	CU M/MI	3325.757576	CU M
SP4	Day 4	08.31.2004	20.2	0.39243	CU M/MI	3328.068182	CU M
SP4	Day 4	08.31.2004	20.25	0.2227	CU M/MI	3328.636364	CU M
SP4	Day 4	08.31.2004	20.3	0	CU M/MI	3329.393939	CU M
SP4	Day 4	08.31.2004	20.35	0.49401	CU M/MI	3331.060606	CU M
SP4	Day 4	08.31.2004	20.4	0.49847	CU M/MI	3333.560606	CU M
SP4	Day 4	08.31.2004	20.45	0.45752	CU M/MI	3335	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 4	08.31.2004	20.5	0.03855	CU M/MI	3337.083333	CU M
SP4	Day 4	08.31.2004	20.55	0.13751	CU M/MI	3337.537879	CU M
SP4	Day 4	08.31.2004	21	0.4586	CU M/MI	3338.44697	CU M
SP4	Day 4	08.31.2004	21.05	0.01007	CU M/MI	3340.795455	CU M
SP4	Day 4	08.31.2004	21.1	0.45931	CU M/MI	3341.55303	CU M
SP4	Day 4	08.31.2004	21.15	0.00238	CU M/MI	3343.560606	CU M
SP4	Day 4	08.31.2004	21.2	0.01827	CU M/MI	3345.227273	CU M
SP4	Day 4	08.31.2004	21.25	0.2253	CU M/MI	3345.568182	CU M
SP4	Day 4	08.31.2004	21.3	0.4602	CU M/MI	3346.55303	CU M
SP4	Day 4	08.31.2004	21.35	0.02029	CU M/MI	3348.181818	CU M
SP4	Day 4	08.31.2004	21.4	0.45856	CU M/MI	3349.507576	CU M
SP4	Day 4	08.31.2004	21.45	0.03158	CU M/MI	3351.477273	CU M
SP4	Day 4	08.31.2004	21.5	0.26536	CU M/MI	3352.121212	CU M
SP4	Day 4	08.31.2004	21.55	0.02671	CU M/MI	3353.371212	CU M
SP4	Day 4	08.31.2004	22	0.1601	CU M/MI	3353.939394	CU M
SP4	Day 4	08.31.2004	22.05	0.15199	CU M/MI	3354.734848	CU M
SP4	Day 4	08.31.2004	22.1	0.14368	CU M/MI	3355.378788	CU M
SP4	Day 4	08.31.2004	22.15	0.49114	CU M/MI	3357.424242	CU M
SP4	Day 4	08.31.2004	22.2	0.0024	CU M/MI	3359.280303	CU M
SP4	Day 4	08.31.2004	22.25	0.0495	CU M/MI	3361.060606	CU M
SP4	Day 4	08.31.2004	22.3	0.46004	CU M/MI	3362.575758	CU M
SP4	Day 4	08.31.2004	22.35	0.45999	CU M/MI	3363.371212	CU M
SP4	Day 4	08.31.2004	22.4	0.08935	CU M/MI	3365.340909	CU M
SP4	Day 4	08.31.2004	22.45	0.10561	CU M/MI	3367.272727	CU M
SP4	Day 4	08.31.2004	22.5	0.00753	CU M/MI	3367.348485	CU M
SP4	Day 4	08.31.2004	22.55	0.34306	CU M/MI	3368.560606	CU M
SP4	Day 4	08.31.2004	23	0.41678	CU M/MI	3369.886364	CU M
SP4	Day 4	08.31.2004	23.05	0.25026	CU M/MI	3370.871212	CU M
SP4	Day 4	08.31.2004	23.1	0.49169	CU M/MI	3372.159091	CU M
SP4	Day 4	08.31.2004	23.15	0.04144	CU M/MI	3373.181818	CU M
SP4	Day 4	08.31.2004	23.2	0.14587	CU M/MI	3373.863636	CU M
SP4	Day 4	08.31.2004	23.25	0.46022	CU M/MI	3375.340909	CU M
SP4	Day 4	08.31.2004	23.3	0.04737	CU M/MI	3377.5	CU M
SP4	Day 4	08.31.2004	23.35	0.10969	CU M/MI	3377.651515	CU M
SP4	Day 4	08.31.2004	23.4	0.03223	CU M/MI	3377.954545	CU M
SP4	Day 4	08.31.2004	23.45	0	CU M/MI	3378.295455	CU M
SP4	Day 4	08.31.2004	23.5	0.49542	CU M/MI	3379.962121	CU M
SP4	Day 4	08.31.2004	23.55	0.05572	CU M/MI	3382.121212	CU M
SP4	Day 4	09.01.2004	0	0.24919	CU M/MI	3382.310606	CU M
SP4	Day 4	09.01.2004	0.05	0.05603	CU M/MI	3382.651515	CU M
SP4	Day 4	09.01.2004	0.1	0.05086	CU M/MI	3382.80303	CU M
SP4	Day 4	09.01.2004	0.15	0.03701	CU M/MI	3383.106061	CU M
SP4	Day 4	09.01.2004	0.2	0.49351	CU M/MI	3385.340909	CU M
SP4	Day 4	09.01.2004	0.25	0.49392	CU M/MI	3387.575758	CU M
SP4	Day 4	09.01.2004	0.3	0.4928	CU M/MI	3390.037879	CU M
SP4	Day 4	09.01.2004	0.35	0.49434	CU M/MI	3392.272727	CU M
SP4	Day 4	09.01.2004	0.4	0.39347	CU M/MI	3394.469697	CU M
SP4	Day 4	09.01.2004	0.45	0	CU M/MI	3396.401515	CU M
SP4	Day 4	09.01.2004	0.5	0.45503	CU M/MI	3397.575758	CU M
SP4	Day 4	09.01.2004	0.55	0.02566	CU M/MI	3399.469697	CU M
SP4	Day 4	09.01.2004	1	0.30442	CU M/MI	3400.30303	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 4	09.01.2004	1.05	0.01638	CU M/MI	3401.856061	CU M
SP4	Day 4	09.01.2004	1.1	0.35033	CU M/MI	3403.674242	CU M
SP4	Day 4	09.01.2004	1.15	0.39112	CU M/MI	3404.128788	CU M
SP4	Day 4	09.01.2004	1.2	0.44111	CU M/MI	3405.265152	CU M
SP4	Day 4	09.01.2004	1.25	0.01198	CU M/MI	3406.590909	CU M
SP4	Day 4	09.01.2004	1.3	0.49149	CU M/MI	3407.840909	CU M
SP4	Day 4	09.01.2004	1.35	0.34625	CU M/MI	3409.924242	CU M
SP4	Day 4	09.01.2004	1.4	0.00924	CU M/MI	3410.833333	CU M
SP4	Day 4	09.01.2004	1.45	0.27833	CU M/MI	3412.272727	CU M
SP4	Day 4	09.01.2004	1.5	0.02054	CU M/MI	3413.598485	CU M
SP4	Day 4	09.01.2004	1.55	0.29534	CU M/MI	3414.924242	CU M
SP4	Day 4	09.01.2004	2	0.33993	CU M/MI	3415.984848	CU M
SP4	Day 4	09.01.2004	2.05	0.00157	CU M/MI	3416.818182	CU M
SP4	Day 4	09.01.2004	2.1	0.02273	CU M/MI	3418.863636	CU M
SP4	Day 4	09.01.2004	2.15	0.00895	CU M/MI	3419.469697	CU M
SP4	Day 4	09.01.2004	2.2	0.17997	CU M/MI	3419.962121	CU M
SP4	Day 4	09.01.2004	2.25	0.18782	CU M/MI	3420.871212	CU M
SP4	Day 4	09.01.2004	2.3	0.18709	CU M/MI	3422.083333	CU M
SP4	Day 4	09.01.2004	2.35	0.49016	CU M/MI	3424.356061	CU M
SP4	Day 4	09.01.2004	2.4	0.38849	CU M/MI	3425.94697	CU M
SP4	Day 4	09.01.2004	2.45	0.42298	CU M/MI	3427.689394	CU M
SP4	Day 4	09.01.2004	2.5	0.22543	CU M/MI	3428.598485	CU M
SP4	Day 4	09.01.2004	2.55	0.25339	CU M/MI	3429.621212	CU M
SP4	Day 4	09.01.2004	3	0.48887	CU M/MI	3430.909091	CU M
SP4	Day 4	09.01.2004	3.05	0.45118	CU M/MI	3432.575758	CU M
SP4	Day 4	09.01.2004	3.1	0	CU M/MI	3433.409091	CU M
SP4	Day 4	09.01.2004	3.15	0.37153	CU M/MI	3435.378788	CU M
SP4	Day 4	09.01.2004	3.2	0.45479	CU M/MI	3435.871212	CU M
SP4	Day 4	09.01.2004	3.25	0.45321	CU M/MI	3437.878788	CU M
SP4	Day 4	09.01.2004	3.3	0.02337	CU M/MI	3439.469697	CU M
SP4	Day 4	09.01.2004	3.35	0.38689	CU M/MI	3440.227273	CU M
SP4	Day 4	09.01.2004	3.4	0.45431	CU M/MI	3441.55303	CU M
SP4	Day 4	09.01.2004	3.45	0	CU M/MI	3442.272727	CU M
SP4	Day 4	09.01.2004	3.5	0.39028	CU M/MI	3443.371212	CU M
SP4	Day 4	09.01.2004	3.55	0.02031	CU M/MI	3445.037879	CU M
SP4	Day 4	09.01.2004	4	0.48756	CU M/MI	3445.454545	CU M
SP4	Day 4	09.01.2004	4.05	0.41406	CU M/MI	3447.878788	CU M
SP4	Day 4	09.01.2004	4.1	0.43841	CU M/MI	3448.257576	CU M
SP4	Day 4	09.01.2004	4.15	0	CU M/MI	3450.113636	CU M
SP4	Day 4	09.01.2004	4.2	0	CU M/MI	3451.136364	CU M
SP4	Day 4	09.01.2004	4.25	0.45298	CU M/MI	3452.234848	CU M
SP4	Day 4	09.01.2004	4.3	0.48256	CU M/MI	3454.015152	CU M
SP4	Day 4	09.01.2004	4.35	0.45314	CU M/MI	3455.113636	CU M
SP4	Day 4	09.01.2004	4.4	0.42037	CU M/MI	3456.666667	CU M
SP4	Day 4	09.01.2004	4.45	0.0005	CU M/MI	3457.916667	CU M
SP4	Day 4	09.01.2004	4.5	0.38182	CU M/MI	3458.143939	CU M
SP4	Day 4	09.01.2004	4.55	0.45787	CU M/MI	3460.227273	CU M
SP4	Day 4	09.01.2004	5	0	CU M/MI	3460.909091	CU M
SP4	Day 4	09.01.2004	5.05	0.48131	CU M/MI	3462.651515	CU M
SP4	Day 4	09.01.2004	5.1	0.00173	CU M/MI	3463.939394	CU M
SP4	Day 4	09.01.2004	5.15	0.44998	CU M/MI	3465.530303	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 4	09.01.2004	5.2	0.27454	CU M/MI	3466.818182	CU M
SP4	Day 4	09.01.2004	5.25	0.45009	CU M/MI	3467.613636	CU M
SP4	Day 4	09.01.2004	5.3	0.3758	CU M/MI	3468.636364	CU M
SP4	Day 4	09.01.2004	5.35	0.44818	CU M/MI	3470.568182	CU M
SP4	Day 4	09.01.2004	5.4	0.42219	CU M/MI	3471.098485	CU M
SP4	Day 4	09.01.2004	5.45	0	CU M/MI	3473.333333	CU M
SP4	Day 4	09.01.2004	5.5	0.00219	CU M/MI	3474.090909	CU M
SP4	Day 4	09.01.2004	5.55	0.48124	CU M/MI	3474.772727	CU M
SP4	Day 5	09.01.2004	6	0.00861	CU M/MI	3476.742424	CU M
SP4	Day 5	09.01.2004	6.05	0.4806	CU M/MI	3477.5	CU M
SP4	Day 5	09.01.2004	6.1	0.01212	CU M/MI	3479.734848	CU M
SP4	Day 5	09.01.2004	6.15	0.19627	CU M/MI	3479.734848	CU M
SP4	Day 5	09.01.2004	6.2	0.25646	CU M/MI	3480.909091	CU M
SP4	Day 5	09.01.2004	6.25	0.34344	CU M/MI	3482.651515	CU M
SP4	Day 5	09.01.2004	6.3	0.48417	CU M/MI	3483.901515	CU M
SP4	Day 5	09.01.2004	6.35	0.00727	CU M/MI	3485.037879	CU M
SP4	Day 5	09.01.2004	6.4	0	CU M/MI	3485.151515	CU M
SP4	Day 5	09.01.2004	6.45	0	CU M/MI	3485.265152	CU M
SP4	Day 5	09.01.2004	6.5	0.16841	CU M/MI	3485.984848	CU M
SP4	Day 5	09.01.2004	6.55	0.16782	CU M/MI	3486.931818	CU M
SP4	Day 5	09.01.2004	7	0.16595	CU M/MI	3487.651515	CU M
SP4	Day 5	09.01.2004	7.05	0	CU M/MI	3487.765152	CU M
SP4	Day 5	09.01.2004	7.1	0	CU M/MI	3487.840909	CU M
SP4	Day 5	09.01.2004	7.15	0	CU M/MI	3488.825758	CU M
SP4	Day 5	09.01.2004	7.2	0.0083	CU M/MI	3489.280303	CU M
SP4	Day 5	09.01.2004	7.25	0.00751	CU M/MI	3489.356061	CU M
SP4	Day 5	09.01.2004	7.3	0.03248	CU M/MI	3489.545455	CU M
SP4	Day 5	09.01.2004	7.35	0.17828	CU M/MI	3489.69697	CU M
SP4	Day 5	09.01.2004	7.4	0.0405	CU M/MI	3489.962121	CU M
SP4	Day 5	09.01.2004	7.45	0.04973	CU M/MI	3490.227273	CU M
SP4	Day 5	09.01.2004	7.5	0.06791	CU M/MI	3490.568182	CU M
SP4	Day 5	09.01.2004	7.55	0	CU M/MI	3490.871212	CU M
SP4	Day 5	09.01.2004	8	0.08953	CU M/MI	3491.212121	CU M
SP4	Day 5	09.01.2004	8.05	0.04697	CU M/MI	3491.628788	CU M
SP4	Day 5	09.01.2004	8.1	0.07563	CU M/MI	3491.931818	CU M
SP4	Day 5	09.01.2004	8.15	0.07133	CU M/MI	3492.386364	CU M
SP4	Day 5	09.01.2004	8.2	0.27898	CU M/MI	3493.181818	CU M
SP4	Day 5	09.01.2004	8.25	0.49579	CU M/MI	3494.621212	CU M
SP4	Day 5	09.01.2004	8.3	0.36236	CU M/MI	3496.893939	CU M
SP4	Day 5	09.01.2004	8.35	0.25676	CU M/MI	3498.030303	CU M
SP4	Day 5	09.01.2004	8.4	0.07713	CU M/MI	3498.409091	CU M
SP4	Day 5	09.01.2004	8.45	0.06523	CU M/MI	3498.636364	CU M
SP4	Day 5	09.01.2004	8.5	0.10446	CU M/MI	3499.05303	CU M
SP4	Day 5	09.01.2004	8.55	0.10425	CU M/MI	3499.393939	CU M
SP4	Day 5	09.01.2004	9	0.18969	CU M/MI	3500.454545	CU M
SP4	Day 5	09.01.2004	9.05	0.1733	CU M/MI	3501.287879	CU M
SP4	Day 5	09.01.2004	9.1	0.06664	CU M/MI	3501.856061	CU M
SP4	Day 5	09.01.2004	9.15	0.05309	CU M/MI	3502.19697	CU M
SP4	Day 5	09.01.2004	9.2	0.27422	CU M/MI	3502.462121	CU M
SP4	Day 5	09.01.2004	9.25	0.05248	CU M/MI	3502.840909	CU M
SP4	Day 5	09.01.2004	9.3	0	CU M/MI	3502.954545	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 5	09.01.2004	9.35	0.06065	CU M/MI	3503.181818	CU M
SP4	Day 5	09.01.2004	9.4	0.06043	CU M/MI	3503.560606	CU M
SP4	Day 5	09.01.2004	9.45	0.05922	CU M/MI	3503.75	CU M
SP4	Day 5	09.01.2004	9.5	0.05538	CU M/MI	3504.128788	CU M
SP4	Day 5	09.01.2004	9.55	0	CU M/MI	3504.393939	CU M
SP4	Day 5	09.01.2004	10	0.23526	CU M/MI	3504.621212	CU M
SP4	Day 5	09.01.2004	10.05	0.50219	CU M/MI	3505.227273	CU M
SP4	Day 5	09.01.2004	10.1	0.50002	CU M/MI	3506.818182	CU M
SP4	Day 5	09.01.2004	10.15	0	CU M/MI	3508.409091	CU M
SP4	Day 5	09.01.2004	10.2	0.22339	CU M/MI	3509.090909	CU M
SP4	Day 5	09.01.2004	10.25	0.49981	CU M/MI	3511.022727	CU M
SP4	Day 5	09.01.2004	10.3	0.49845	CU M/MI	3513.295455	CU M
SP4	Day 5	09.01.2004	10.35	0.35533	CU M/MI	3515.643939	CU M
SP4	Day 5	09.01.2004	10.4	0.50017	CU M/MI	3518.068182	CU M
SP4	Day 5	09.01.2004	10.45	0.50009	CU M/MI	3520.568182	CU M
SP4	Day 5	09.01.2004	10.5	0.39453	CU M/MI	3522.234848	CU M
SP4	Day 5	09.01.2004	10.55	0.49651	CU M/MI	3524.469697	CU M
SP4	Day 5	09.01.2004	11	0.00487	CU M/MI	3526.287879	CU M
SP4	Day 5	09.01.2004	11.05	0.01144	CU M/MI	3526.25	CU M
SP4	Day 5	09.01.2004	11.1	0.49722	CU M/MI	3527.613636	CU M
SP4	Day 5	09.01.2004	11.15	0.39288	CU M/MI	3529.962121	CU M
SP4	Day 5	09.01.2004	11.2	0.46312	CU M/MI	3531.022727	CU M
SP4	Day 5	09.01.2004	11.25	0.00766	CU M/MI	3531.590909	CU M
SP4	Day 5	09.01.2004	11.3	0.2769	CU M/MI	3533.674242	CU M
SP4	Day 5	09.01.2004	11.35	0.22374	CU M/MI	3534.583333	CU M
SP4	Day 5	09.01.2004	11.4	0.06096	CU M/MI	3536.022727	CU M
SP4	Day 5	09.01.2004	11.45	0.03078	CU M/MI	3537.765152	CU M
SP4	Day 5	09.01.2004	11.5	0.46646	CU M/MI	3538.598485	CU M
SP4	Day 5	09.01.2004	11.55	0.00972	CU M/MI	3539.469697	CU M
SP4	Day 5	09.01.2004	12	0.49701	CU M/MI	3541.704545	CU M
SP4	Day 5	09.01.2004	12.05	0.00316	CU M/MI	3542.575758	CU M
SP4	Day 5	09.01.2004	12.1	0.02448	CU M/MI	3543.674242	CU M
SP4	Day 5	09.01.2004	12.15	0.08162	CU M/MI	3545.227273	CU M
SP4	Day 5	09.01.2004	12.2	0.16484	CU M/MI	3546.742424	CU M
SP4	Day 5	09.01.2004	12.25	0.14403	CU M/MI	3547.462121	CU M
SP4	Day 5	09.01.2004	12.3	0.14377	CU M/MI	3548.181818	CU M
SP4	Day 5	09.01.2004	12.35	0.49675	CU M/MI	3549.469697	CU M
SP4	Day 5	09.01.2004	12.4	0.49545	CU M/MI	3551.969697	CU M
SP4	Day 5	09.01.2004	12.45	0.23413	CU M/MI	3553.522727	CU M
SP4	Day 5	09.01.2004	12.5	0.23259	CU M/MI	3553.787879	CU M
SP4	Day 5	09.01.2004	12.55	0.4632	CU M/MI	3556.022727	CU M
SP4	Day 5	09.01.2004	13	0.48653	CU M/MI	3557.083333	CU M
SP4	Day 5	09.01.2004	13.05	0.0069	CU M/MI	3558.522727	CU M
SP4	Day 5	09.01.2004	13.1	0.49381	CU M/MI	3559.924242	CU M
SP4	Day 5	09.01.2004	13.15	0.22412	CU M/MI	3561.363636	CU M
SP4	Day 5	09.01.2004	13.2	0	CU M/MI	3561.363636	CU M
SP4	Day 5	09.01.2004	13.25	0.22824	CU M/MI	3561.818182	CU M
SP4	Day 5	09.01.2004	13.3	0	CU M/MI	3562.537879	CU M
SP4	Day 5	09.01.2004	13.35	0.49618	CU M/MI	3564.659091	CU M
SP4	Day 5	09.01.2004	13.4	0.46557	CU M/MI	3567.121212	CU M
SP4	Day 5	09.01.2004	13.45	0.00189	CU M/MI	3568.030303	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 5	09.01.2004	13.5	0.00354	CU M/MI	3569.545455	CU M
SP4	Day 5	09.01.2004	13.55	0.39044	CU M/MI	3570.681818	CU M
SP4	Day 5	09.01.2004	14	0.4618	CU M/MI	3571.931818	CU M
SP4	Day 5	09.01.2004	14.05	0	CU M/MI	3572.5	CU M
SP4	Day 5	09.01.2004	14.1	0.49336	CU M/MI	3574.69697	CU M
SP4	Day 5	09.01.2004	14.15	0	CU M/MI	3576.136364	CU M
SP4	Day 5	09.01.2004	14.2	0.46079	CU M/MI	3577.727273	CU M
SP4	Day 5	09.01.2004	14.25	0.49226	CU M/MI	3578.371212	CU M
SP4	Day 5	09.01.2004	14.3	0	CU M/MI	3579.583333	CU M
SP4	Day 5	09.01.2004	14.35	0.45958	CU M/MI	3581.098485	CU M
SP4	Day 5	09.01.2004	14.4	0.45914	CU M/MI	3581.590909	CU M
SP4	Day 5	09.01.2004	14.45	0.13795	CU M/MI	3582.992424	CU M
SP4	Day 5	09.01.2004	14.5	0.45985	CU M/MI	3584.810606	CU M
SP4	Day 5	09.01.2004	14.55	0.48485	CU M/MI	3585.492424	CU M
SP4	Day 5	09.01.2004	15	0.48958	CU M/MI	3587.954545	CU M
SP4	Day 5	09.01.2004	15.05	0	CU M/MI	3587.992424	CU M
SP4	Day 5	09.01.2004	15.1	0.47271	CU M/MI	3589.015152	CU M
SP4	Day 5	09.01.2004	15.15	0.37338	CU M/MI	3591.439394	CU M
SP4	Day 5	09.01.2004	15.2	0	CU M/MI	3591.55303	CU M
SP4	Day 5	09.01.2004	15.25	0.45624	CU M/MI	3593.787879	CU M
SP4	Day 5	09.01.2004	15.3	0.38843	CU M/MI	3594.848485	CU M
SP4	Day 5	09.01.2004	15.35	0.45734	CU M/MI	3596.515152	CU M
SP4	Day 5	09.01.2004	15.4	0	CU M/MI	3597.007576	CU M
SP4	Day 5	09.01.2004	15.45	0.38706	CU M/MI	3598.409091	CU M
SP4	Day 5	09.01.2004	15.5	0.34791	CU M/MI	3599.734848	CU M
SP4	Day 5	09.01.2004	15.55	0.00011	CU M/MI	3600.871212	CU M
SP4	Day 5	09.01.2004	16	0.17074	CU M/MI	3601.477273	CU M
SP4	Day 5	09.01.2004	16.05	0.16787	CU M/MI	3602.121212	CU M
SP4	Day 5	09.01.2004	16.1	0	CU M/MI	3602.727273	CU M
SP4	Day 5	09.01.2004	16.15	0.35241	CU M/MI	3603.75	CU M
SP4	Day 5	09.01.2004	16.2	0.41573	CU M/MI	3604.734848	CU M
SP4	Day 5	09.01.2004	16.25	0	CU M/MI	3606.136364	CU M
SP4	Day 5	09.01.2004	16.3	0.49621	CU M/MI	3607.727273	CU M
SP4	Day 5	09.01.2004	16.35	0.28074	CU M/MI	3609.469697	CU M
SP4	Day 5	09.01.2004	16.4	0.46225	CU M/MI	3611.325758	CU M
SP4	Day 5	09.01.2004	16.45	0.14424	CU M/MI	3612.19697	CU M
SP4	Day 5	09.01.2004	16.5	0.46045	CU M/MI	3613.030303	CU M
SP4	Day 5	09.01.2004	16.55	0	CU M/MI	3614.280303	CU M
SP4	Day 5	09.01.2004	17	0.34771	CU M/MI	3616.022727	CU M
SP4	Day 5	09.01.2004	17.05	0.45926	CU M/MI	3617.424242	CU M
SP4	Day 5	09.01.2004	17.1	0.46144	CU M/MI	3619.734848	CU M
SP4	Day 5	09.01.2004	17.15	0.34617	CU M/MI	3620.30303	CU M
SP4	Day 5	09.01.2004	17.2	0.3902	CU M/MI	3621.325758	CU M
SP4	Day 5	09.01.2004	17.25	0.45923	CU M/MI	3622.348485	CU M
SP4	Day 5	09.01.2004	17.3	0.383	CU M/MI	3624.05303	CU M
SP4	Day 5	09.01.2004	17.35	0.46161	CU M/MI	3626.060606	CU M
SP4	Day 5	09.01.2004	17.4	0.26953	CU M/MI	3626.666667	CU M
SP4	Day 5	09.01.2004	17.45	0.00727	CU M/MI	3628.181818	CU M
SP4	Day 5	09.01.2004	17.5	0.37706	CU M/MI	3629.393939	CU M
SP4	Day 5	09.01.2004	17.55	0.39097	CU M/MI	3630.340909	CU M
SP4	Day 5	09.01.2004	18	0.00522	CU M/MI	3631.969697	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 5	09.01.2004	18.05	0.4936	CU M/MI	3633.106061	CU M
SP4	Day 5	09.01.2004	18.1	0.01055	CU M/MI	3635	CU M
SP4	Day 5	09.01.2004	18.15	0.26505	CU M/MI	3635.94697	CU M
SP4	Day 5	09.01.2004	18.2	0.21811	CU M/MI	3637.234848	CU M
SP4	Day 5	09.01.2004	18.25	0.34454	CU M/MI	3639.204545	CU M
SP4	Day 5	09.01.2004	18.3	0.46493	CU M/MI	3639.69697	CU M
SP4	Day 5	09.01.2004	18.35	0.00846	CU M/MI	3640.795455	CU M
SP4	Day 5	09.01.2004	18.4	0.19276	CU M/MI	3642.575758	CU M
SP4	Day 5	09.01.2004	18.45	0.18547	CU M/MI	3643.409091	CU M
SP4	Day 5	09.01.2004	18.5	0.49002	CU M/MI	3644.356061	CU M
SP4	Day 5	09.01.2004	18.55	0.49646	CU M/MI	3646.856061	CU M
SP4	Day 5	09.01.2004	19	0.18809	CU M/MI	3647.651515	CU M
SP4	Day 5	09.01.2004	19.05	0.2268	CU M/MI	3648.181818	CU M
SP4	Day 5	09.01.2004	19.1	0.50045	CU M/MI	3649.166667	CU M
SP4	Day 5	09.01.2004	19.2	0.28431	CU M/MI	3652.651515	CU M
SP4	Day 5	09.01.2004	19.25	0	CU M/MI	3653.901515	CU M
SP4	Day 5	09.01.2004	19.3	0.26892	CU M/MI	3654.924242	CU M
SP4	Day 5	09.01.2004	19.35	0.39436	CU M/MI	3655.568182	CU M
SP4	Day 5	09.01.2004	19.4	0.46589	CU M/MI	3657.727273	CU M
SP4	Day 5	09.01.2004	19.45	0.0037	CU M/MI	3658.068182	CU M
SP4	Day 5	09.01.2004	19.5	0.497	CU M/MI	3660	CU M
SP4	Day 5	09.01.2004	19.55	0.16832	CU M/MI	3661.893939	CU M
SP4	Day 5	09.01.2004	20	0.03414	CU M/MI	3663.598485	CU M
SP4	Day 5	09.01.2004	20.05	0.01198	CU M/MI	3663.674242	CU M
SP4	Day 5	09.01.2004	20.1	0	CU M/MI	3665.227273	CU M
SP4	Day 5	09.01.2004	20.15	0.46476	CU M/MI	3666.818182	CU M
SP4	Day 5	09.01.2004	20.2	0.07746	CU M/MI	3669.05303	CU M
SP4	Day 5	09.01.2004	20.25	0.35262	CU M/MI	3670.151515	CU M
SP4	Day 5	09.01.2004	20.3	0.46477	CU M/MI	3671.287879	CU M
SP4	Day 5	09.01.2004	20.35	0.0241	CU M/MI	3672.613636	CU M
SP4	Day 5	09.01.2004	20.4	0.13288	CU M/MI	3673.44697	CU M
SP4	Day 5	09.01.2004	20.45	0.28403	CU M/MI	3674.659091	CU M
SP4	Day 5	09.01.2004	20.5	0.46319	CU M/MI	3676.780303	CU M
SP4	Day 5	09.01.2004	20.55	0.32119	CU M/MI	3677.916667	CU M
SP4	Day 5	09.01.2004	21	0.46052	CU M/MI	3680.151515	CU M
SP4	Day 5	09.01.2004	21.05	0.0664	CU M/MI	3681.931818	CU M
SP4	Day 5	09.01.2004	21.1	0.01357	CU M/MI	3681.969697	CU M
SP4	Day 5	09.01.2004	21.15	0	CU M/MI	3682.007576	CU M
SP4	Day 5	09.01.2004	21.2	0	CU M/MI	3683.030303	CU M
SP4	Day 5	09.01.2004	21.25	0	CU M/MI	3683.712121	CU M
SP4	Day 5	09.01.2004	21.3	0.33204	CU M/MI	3685.075758	CU M
SP4	Day 5	09.01.2004	21.35	0.18101	CU M/MI	3686.628788	CU M
SP4	Day 5	09.01.2004	21.4	0.46388	CU M/MI	3688.598485	CU M
SP4	Day 5	09.01.2004	21.45	0.01496	CU M/MI	3689.280303	CU M
SP4	Day 5	09.01.2004	21.5	0.03304	CU M/MI	3690.681818	CU M
SP4	Day 5	09.01.2004	21.55	0.04756	CU M/MI	3691.931818	CU M
SP4	Day 5	09.01.2004	22	0.46587	CU M/MI	3693.181818	CU M
SP4	Day 5	09.01.2004	22.05	0	CU M/MI	3694.734848	CU M
SP4	Day 5	09.01.2004	22.1	0.01648	CU M/MI	3696.25	CU M
SP4	Day 5	09.01.2004	22.15	0.03241	CU M/MI	3697.613636	CU M
SP4	Day 5	09.01.2004	22.2	0.34116	CU M/MI	3698.257576	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 5	09.01.2004	22.25	0.01929	CU M/MI	3699.469697	CU M
SP4	Day 5	09.01.2004	22.3	0.03313	CU M/MI	3701.363636	CU M
SP4	Day 5	09.01.2004	22.35	0.46305	CU M/MI	3703.030303	CU M
SP4	Day 5	09.01.2004	22.4	0.01344	CU M/MI	3703.825758	CU M
SP4	Day 5	09.01.2004	22.45	0.48276	CU M/MI	3705.643939	CU M
SP4	Day 5	09.01.2004	22.5	0.00308	CU M/MI	3706.439394	CU M
SP4	Day 5	09.01.2004	22.55	0.4636	CU M/MI	3707.878788	CU M
SP4	Day 5	09.01.2004	23	0.49712	CU M/MI	3709.090909	CU M
SP4	Day 5	09.01.2004	23.05	0.01544	CU M/MI	3710.189394	CU M
SP4	Day 5	09.01.2004	23.1	0.43043	CU M/MI	3711.666667	CU M
SP4	Day 5	09.01.2004	23.15	0.35577	CU M/MI	3713.712121	CU M
SP4	Day 5	09.01.2004	23.2	0.46369	CU M/MI	3714.356061	CU M
SP4	Day 5	09.01.2004	23.25	0.39187	CU M/MI	3715.530303	CU M
SP4	Day 5	09.01.2004	23.3	0.2455	CU M/MI	3717.386364	CU M
SP4	Day 5	09.01.2004	23.35	0.45537	CU M/MI	3717.80303	CU M
SP4	Day 5	09.01.2004	23.4	0.39316	CU M/MI	3719.69697	CU M
SP4	Day 5	09.01.2004	23.45	0.00902	CU M/MI	3721.022727	CU M
SP4	Day 5	09.01.2004	23.5	0.03117	CU M/MI	3722.5	CU M
SP4	Day 5	09.01.2004	23.55	0.01046	CU M/MI	3724.015152	CU M
SP4	Day 5	09.02.2004	0	0.00474	CU M/MI	3723.977273	CU M
SP4	Day 5	09.02.2004	0.05	0.04841	CU M/MI	3726.136364	CU M
SP4	Day 5	09.02.2004	0.1	0.39171	CU M/MI	3727.992424	CU M
SP4	Day 5	09.02.2004	0.15	0	CU M/MI	3728.787879	CU M
SP4	Day 5	09.02.2004	0.2	0	CU M/MI	3729.431818	CU M
SP4	Day 5	09.02.2004	0.25	0.36693	CU M/MI	3731.212121	CU M
SP4	Day 5	09.02.2004	0.3	0.08116	CU M/MI	3732.878788	CU M
SP4	Day 5	09.02.2004	0.35	0.28357	CU M/MI	3733.75	CU M
SP4	Day 5	09.02.2004	0.4	0.14027	CU M/MI	3735.416667	CU M
SP4	Day 5	09.02.2004	0.45	0.28243	CU M/MI	3737.007576	CU M
SP4	Day 5	09.02.2004	0.5	0.00543	CU M/MI	3738.484848	CU M
SP4	Day 5	09.02.2004	0.55	0.45276	CU M/MI	3739.583333	CU M
SP4	Day 5	09.02.2004	1	0.00216	CU M/MI	3740.909091	CU M
SP4	Day 5	09.02.2004	1.05	0.17225	CU M/MI	3741.098485	CU M
SP4	Day 5	09.02.2004	1.1	0.18227	CU M/MI	3742.121212	CU M
SP4	Day 5	09.02.2004	1.15	0.16007	CU M/MI	3742.954545	CU M
SP4	Day 5	09.02.2004	1.2	0.35453	CU M/MI	3744.166667	CU M
SP4	Day 5	09.02.2004	1.25	0.39099	CU M/MI	3746.174242	CU M
SP4	Day 5	09.02.2004	1.3	0.03225	CU M/MI	3748.371212	CU M
SP4	Day 5	09.02.2004	1.35	0	CU M/MI	3749.469697	CU M
SP4	Day 5	09.02.2004	1.4	0.25731	CU M/MI	3750.416667	CU M
SP4	Day 5	09.02.2004	1.45	0.49383	CU M/MI	3752.083333	CU M
SP4	Day 5	09.02.2004	1.5	0.4495	CU M/MI	3753.333333	CU M
SP4	Day 5	09.02.2004	1.55	0.45957	CU M/MI	3755.075758	CU M
SP4	Day 5	09.02.2004	2	0.45941	CU M/MI	3756.742424	CU M
SP4	Day 5	09.02.2004	2.05	0.44724	CU M/MI	3758.030303	CU M
SP4	Day 5	09.02.2004	2.1	0	CU M/MI	3759.431818	CU M
SP4	Day 5	09.02.2004	2.15	0.30359	CU M/MI	3760.94697	CU M
SP4	Day 5	09.02.2004	2.2	0.00628	CU M/MI	3762.272727	CU M
SP4	Day 5	09.02.2004	2.25	0.45712	CU M/MI	3764.128788	CU M
SP4	Day 5	09.02.2004	2.3	0	CU M/MI	3765.871212	CU M
SP4	Day 5	09.02.2004	2.35	0.00726	CU M/MI	3766.969697	CU M

Appendix B
Raw Flow from Influent (SP-4)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 5	09.02.2004	2.4	0.45685	CU M/MI	3768.484848	CU M
SP4	Day 5	09.02.2004	2.45	0.28072	CU M/MI	3769.545455	CU M
SP4	Day 5	09.02.2004	2.5	0.44737	CU M/MI	3770.454545	CU M
SP4	Day 5	09.02.2004	2.55	0.33488	CU M/MI	3771.590909	CU M
SP4	Day 5	09.02.2004	3	0.45713	CU M/MI	3773.636364	CU M
SP4	Day 5	09.02.2004	3.05	0	CU M/MI	3775	CU M
SP4	Day 5	09.02.2004	3.1	0.38969	CU M/MI	3775.984848	CU M
SP4	Day 5	09.02.2004	3.15	0.34762	CU M/MI	3777.916667	CU M
SP4	Day 5	09.02.2004	3.2	0.45598	CU M/MI	3779.242424	CU M
SP4	Day 5	09.02.2004	3.25	0.42822	CU M/MI	3780.075758	CU M
SP4	Day 5	09.02.2004	3.3	0.28588	CU M/MI	3782.083333	CU M
SP4	Day 5	09.02.2004	3.35	0	CU M/MI	3783.371212	CU M
SP4	Day 5	09.02.2004	3.4	0.48303	CU M/MI	3784.583333	CU M
SP4	Day 5	09.02.2004	3.45	0	CU M/MI	3785.909091	CU M
SP4	Day 5	09.02.2004	3.5	0.3841	CU M/MI	3787.386364	CU M
SP4	Day 5	09.02.2004	3.55	0	CU M/MI	3788.484848	CU M
SP4	Day 5	09.02.2004	4	0.43513	CU M/MI	3789.69697	CU M
SP4	Day 5	09.02.2004	4.05	0.44886	CU M/MI	3791.742424	CU M
SP4	Day 5	09.02.2004	4.1	0.35287	CU M/MI	3793.44697	CU M
SP4	Day 5	09.02.2004	4.15	0.29271	CU M/MI	3795.30303	CU M
SP4	Day 5	09.02.2004	4.2	0.44805	CU M/MI	3796.666667	CU M
SP4	Day 5	09.02.2004	4.25	0.0239	CU M/MI	3796.856061	CU M
SP4	Day 5	09.02.2004	4.3	0.48233	CU M/MI	3797.878788	CU M
SP4	Day 5	09.02.2004	4.35	0.38523	CU M/MI	3800.189394	CU M
SP4	Day 5	09.02.2004	4.4	0.44923	CU M/MI	3801.515152	CU M
SP4	Day 5	09.02.2004	4.45	0.35184	CU M/MI	3802.916667	CU M
SP4	Day 5	09.02.2004	4.5	0	CU M/MI	3804.886364	CU M
SP4	Day 5	09.02.2004	4.55	0	CU M/MI	3805.416667	CU M
SP4	Day 5	09.02.2004	5	0.25097	CU M/MI	3806.55303	CU M
SP4	Day 5	09.02.2004	5.05	0	CU M/MI	3807.689394	CU M
SP4	Day 5	09.02.2004	5.1	0.38179	CU M/MI	3808.901515	CU M
SP4	Day 5	09.02.2004	5.15	0.44912	CU M/MI	3810.681818	CU M
SP4	Day 5	09.02.2004	5.2	0.44883	CU M/MI	3811.742424	CU M
SP4	Day 5	09.02.2004	5.25	0.44686	CU M/MI	3813.863636	CU M
SP4	Day 5	09.02.2004	5.3	0.44671	CU M/MI	3815.340909	CU M
SP4	Day 5	09.02.2004	5.35	0.25816	CU M/MI	3815.909091	CU M
SP4	Day 5	09.02.2004	5.4	0	CU M/MI	3817.159091	CU M
SP4	Day 5	09.02.2004	5.45	0.42436	CU M/MI	3818.75	CU M
SP4	Day 5	09.02.2004	5.5	0.25878	CU M/MI	3820.113636	CU M
SP4	Day 5	09.02.2004	5.55	0.01143	CU M/MI	3821.287879	CU M
SP4	Day 6	09.02.2004	6	0.10891	CU M/MI	3822.007576	CU M
SP4	Day 6	09.02.2004	6.05	0.17748	CU M/MI	3822.878788	CU M
SP4	Day 6	09.02.2004	6.1	0	CU M/MI	3823.44697	CU M
SP4	Day 6	09.02.2004	6.15	0.05139	CU M/MI	3823.409091	CU M
SP4	Day 6	09.02.2004	6.2	0	CU M/MI	3823.409091	CU M
SP4	Day 6	09.02.2004	6.25	0	CU M/MI	3823.371212	CU M
SP4	Day 6	09.02.2004	6.3	0	CU M/MI	3823.371212	CU M
SP4	Day 6	09.02.2004	6.35	0	CU M/MI	3823.333333	CU M
SP4	Day 6	09.02.2004	6.4	0	CU M/MI	3823.333333	CU M
SP4	Day 6	09.02.2004	6.45	0	CU M/MI	3823.295455	CU M
SP4	Day 6	09.02.2004	6.5	0	CU M/MI	3823.674242	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 6	09.02.2004	6.55	0	CU M/MI	3823.825758	CU M
SP4	Day 6	09.02.2004	7	0	CU M/MI	3823.863636	CU M
SP4	Day 6	09.02.2004	7.05	0	CU M/MI	3823.825758	CU M
SP4	Day 6	09.02.2004	7.1	0	CU M/MI	3823.825758	CU M
SP4	Day 6	09.02.2004	7.15	0	CU M/MI	3823.787879	CU M
SP4	Day 6	09.02.2004	7.2	0	CU M/MI	3824.128788	CU M
SP4	Day 6	09.02.2004	7.25	0	CU M/MI	3824.128788	CU M
SP4	Day 6	09.02.2004	7.3	0	CU M/MI	3824.242424	CU M
SP4	Day 6	09.02.2004	7.35	0	CU M/MI	3824.242424	CU M
SP4	Day 6	09.02.2004	7.4	0.26689	CU M/MI	3824.848485	CU M
SP4	Day 6	09.02.2004	7.45	0.01377	CU M/MI	3825.984848	CU M
SP4	Day 6	09.02.2004	7.5	0.36245	CU M/MI	3826.174242	CU M
SP4	Day 6	09.02.2004	7.55	0.24232	CU M/MI	3827.121212	CU M
SP4	Day 6	09.02.2004	8	0.33489	CU M/MI	3827.840909	CU M
SP4	Day 6	09.02.2004	8.05	0.16357	CU M/MI	3828.560606	CU M
SP4	Day 6	09.02.2004	8.1	0.35965	CU M/MI	3830.189394	CU M
SP4	Day 6	09.02.2004	8.15	0.18264	CU M/MI	3831.477273	CU M
SP4	Day 6	09.02.2004	8.2	0.48753	CU M/MI	3832.537879	CU M
SP4	Day 6	09.02.2004	8.25	0.39126	CU M/MI	3834.810606	CU M
SP4	Day 6	09.02.2004	8.3	0.42968	CU M/MI	3837.045455	CU M
SP4	Day 6	09.02.2004	8.35	0.49718	CU M/MI	3839.545455	CU M
SP4	Day 6	09.02.2004	8.4	0.49687	CU M/MI	3842.045455	CU M
SP4	Day 6	09.02.2004	8.45	0.40647	CU M/MI	3844.242424	CU M
SP4	Day 6	09.02.2004	8.5	0.49857	CU M/MI	3846.363636	CU M
SP4	Day 6	09.02.2004	8.55	0.07307	CU M/MI	3848.787879	CU M
SP4	Day 6	09.02.2004	9	0.02964	CU M/MI	3848.825758	CU M
SP4	Day 6	09.02.2004	9.05	0.4878	CU M/MI	3849.583333	CU M
SP4	Day 6	09.02.2004	9.1	0.50128	CU M/MI	3852.083333	CU M
SP4	Day 6	09.02.2004	9.15	0.46491	CU M/MI	3852.916667	CU M
SP4	Day 6	09.02.2004	9.2	0.08612	CU M/MI	3855.189394	CU M
SP4	Day 6	09.02.2004	9.25	0.45885	CU M/MI	3855.530303	CU M
SP4	Day 6	09.02.2004	9.3	0.03683	CU M/MI	3857.007576	CU M
SP4	Day 6	09.02.2004	9.35	0.00841	CU M/MI	3857.121212	CU M
SP4	Day 6	09.02.2004	9.4	0.49938	CU M/MI	3858.598485	CU M
SP4	Day 6	09.02.2004	9.45	0.04346	CU M/MI	3859.734848	CU M
SP4	Day 6	09.02.2004	9.5	0.49885	CU M/MI	3861.060606	CU M
SP4	Day 6	09.02.2004	9.55	0.35166	CU M/MI	3863.219697	CU M
SP4	Day 6	09.02.2004	10	0	CU M/MI	3864.318182	CU M
SP4	Day 6	09.02.2004	10.05	0.02804	CU M/MI	3864.772727	CU M
SP4	Day 6	09.02.2004	10.1	0	CU M/MI	3865.340909	CU M
SP4	Day 6	09.02.2004	10.15	0.1733	CU M/MI	3865.984848	CU M
SP4	Day 6	09.02.2004	10.2	0	CU M/MI	3866.477273	CU M
SP4	Day 6	09.02.2004	10.25	0.06163	CU M/MI	3867.575758	CU M
SP4	Day 6	09.02.2004	10.3	0.24518	CU M/MI	3868.106061	CU M
SP4	Day 6	09.02.2004	10.35	0	CU M/MI	3868.371212	CU M
SP4	Day 6	09.02.2004	10.4	0	CU M/MI	3868.371212	CU M
SP4	Day 6	09.02.2004	10.45	0.05057	CU M/MI	3868.522727	CU M
SP4	Day 6	09.02.2004	10.5	0	CU M/MI	3868.674242	CU M
SP4	Day 6	09.02.2004	10.55	0.2645	CU M/MI	3869.356061	CU M
SP4	Day 6	09.02.2004	11	0.06197	CU M/MI	3870.530303	CU M
SP4	Day 6	09.02.2004	11.05	0.25579	CU M/MI	3870.757576	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 6	09.02.2004	11.1	0.498	CU M/MI	3872.310606	CU M
SP4	Day 6	09.02.2004	11.15	0.35506	CU M/MI	3873.75	CU M
SP4	Day 6	09.02.2004	11.2	0.48431	CU M/MI	3875.492424	CU M
SP4	Day 6	09.02.2004	11.25	0.35487	CU M/MI	3877.878788	CU M
SP4	Day 6	09.02.2004	11.3	0.49549	CU M/MI	3879.734848	CU M
SP4	Day 6	09.02.2004	11.35	0.35532	CU M/MI	3882.159091	CU M
SP4	Day 6	09.02.2004	11.4	0.49503	CU M/MI	3884.431818	CU M
SP4	Day 6	09.02.2004	11.45	0.1722	CU M/MI	3886.818182	CU M
SP4	Day 6	09.02.2004	11.5	0	CU M/MI	3886.780303	CU M
SP4	Day 6	09.02.2004	11.55	0.49556	CU M/MI	3888.712121	CU M
SP4	Day 6	09.02.2004	12	0.49457	CU M/MI	3890.909091	CU M
SP4	Day 6	09.02.2004	12.05	0.49533	CU M/MI	3893.409091	CU M
SP4	Day 6	09.02.2004	12.1	0.39247	CU M/MI	3895	CU M
SP4	Day 6	09.02.2004	12.15	0.49194	CU M/MI	3897.272727	CU M
SP4	Day 6	09.02.2004	12.2	0.28528	CU M/MI	3898.863636	CU M
SP4	Day 6	09.02.2004	12.25	0.0202	CU M/MI	3900.227273	CU M
SP4	Day 6	09.02.2004	12.3	0.01285	CU M/MI	3901.098485	CU M
SP4	Day 6	09.02.2004	12.35	0.46124	CU M/MI	3902.651515	CU M
SP4	Day 6	09.02.2004	12.4	0.47434	CU M/MI	3903.636364	CU M
SP4	Day 6	09.02.2004	12.45	0.37318	CU M/MI	3906.022727	CU M
SP4	Day 6	09.02.2004	12.5	0.34212	CU M/MI	3906.666667	CU M
SP4	Day 6	09.02.2004	12.55	0.00813	CU M/MI	3908.219697	CU M
SP4	Day 6	09.02.2004	13	0.34694	CU M/MI	3909.810606	CU M
SP4	Day 6	09.02.2004	13.05	0.00064	CU M/MI	3910.492424	CU M
SP4	Day 6	09.02.2004	13.1	0	CU M/MI	3911.818182	CU M
SP4	Day 6	09.02.2004	13.15	0.02941	CU M/MI	3913.75	CU M
SP4	Day 6	09.02.2004	13.2	0.34676	CU M/MI	3914.621212	CU M
SP4	Day 6	09.02.2004	13.25	0	CU M/MI	3916.136364	CU M
SP4	Day 6	09.02.2004	13.3	0	CU M/MI	3917.916667	CU M
SP4	Day 6	09.02.2004	13.35	0.48741	CU M/MI	3918.712121	CU M
SP4	Day 6	09.02.2004	13.4	0	CU M/MI	3920.795455	CU M
SP4	Day 6	09.02.2004	13.45	0	CU M/MI	3921.742424	CU M
SP4	Day 6	09.02.2004	13.5	0.34508	CU M/MI	3922.727273	CU M
SP4	Day 6	09.02.2004	13.55	0	CU M/MI	3923.977273	CU M
SP4	Day 6	09.02.2004	14	0.34357	CU M/MI	3925.757576	CU M
SP4	Day 6	09.02.2004	14.05	0.16175	CU M/MI	3926.363636	CU M
SP4	Day 6	09.02.2004	14.1	0	CU M/MI	3927.159091	CU M
SP4	Day 6	09.02.2004	14.15	0.1557	CU M/MI	3927.234848	CU M
SP4	Day 6	09.02.2004	14.2	0.22579	CU M/MI	3927.613636	CU M
SP4	Day 6	09.02.2004	14.25	0.48973	CU M/MI	3929.128788	CU M
SP4	Day 6	09.02.2004	14.3	0	CU M/MI	3930.530303	CU M
SP4	Day 6	09.02.2004	14.35	0	CU M/MI	3931.022727	CU M
SP4	Day 6	09.02.2004	14.4	0.48683	CU M/MI	3932.159091	CU M
SP4	Day 6	09.02.2004	14.45	0.48789	CU M/MI	3934.583333	CU M
SP4	Day 6	09.02.2004	14.5	0.38685	CU M/MI	3935.757576	CU M
SP4	Day 6	09.02.2004	14.55	0.47585	CU M/MI	3936.515152	CU M
SP4	Day 6	09.02.2004	15	0.38919	CU M/MI	3938.522727	CU M
SP4	Day 6	09.02.2004	15.05	0.45482	CU M/MI	3939.962121	CU M
SP4	Day 6	09.02.2004	15.1	0.25228	CU M/MI	3940.492424	CU M
SP4	Day 6	09.02.2004	15.15	0.14208	CU M/MI	3941.401515	CU M
SP4	Day 6	09.02.2004	15.2	0.42031	CU M/MI	3942.575758	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 6	09.02.2004	15.25	0.34599	CU M/MI	3944.507576	CU M
SP4	Day 6	09.02.2004	15.3	0	CU M/MI	3945.265152	CU M
SP4	Day 6	09.02.2004	15.35	0.34558	CU M/MI	3947.007576	CU M
SP4	Day 6	09.02.2004	15.4	0.48658	CU M/MI	3947.80303	CU M
SP4	Day 6	09.02.2004	15.45	0.39038	CU M/MI	3949.69697	CU M
SP4	Day 6	09.02.2004	15.5	0.26232	CU M/MI	3950.94697	CU M
SP4	Day 6	09.02.2004	15.55	0	CU M/MI	3952.159091	CU M
SP4	Day 6	09.02.2004	16	0.46808	CU M/MI	3953.409091	CU M
SP4	Day 6	09.02.2004	16.05	0.28296	CU M/MI	3954.962121	CU M
SP4	Day 6	09.02.2004	16.1	0.45537	CU M/MI	3956.628788	CU M
SP4	Day 6	09.02.2004	16.15	0	CU M/MI	3957.424242	CU M
SP4	Day 6	09.02.2004	16.2	0.26347	CU M/MI	3958.560606	CU M
SP4	Day 6	09.02.2004	16.25	0.2544	CU M/MI	3959.204545	CU M
SP4	Day 6	09.02.2004	16.3	0.39584	CU M/MI	3961.25	CU M
SP4	Day 6	09.02.2004	16.35	0.48667	CU M/MI	3962.727273	CU M
SP4	Day 6	09.02.2004	16.4	0.08075	CU M/MI	3964.280303	CU M
SP4	Day 6	09.02.2004	16.45	0.14666	CU M/MI	3965	CU M
SP4	Day 6	09.02.2004	16.5	0.07203	CU M/MI	3965.643939	CU M
SP4	Day 6	09.02.2004	16.55	0.48419	CU M/MI	3967.348485	CU M
SP4	Day 6	09.02.2004	17	0.39362	CU M/MI	3969.015152	CU M
SP4	Day 6	09.02.2004	17.05	0.49025	CU M/MI	3971.174242	CU M
SP4	Day 6	09.02.2004	17.1	0.26647	CU M/MI	3972.727273	CU M
SP4	Day 6	09.02.2004	17.15	0.02275	CU M/MI	3973.484848	CU M
SP4	Day 6	09.02.2004	17.2	0	CU M/MI	3974.924242	CU M
SP4	Day 6	09.02.2004	17.25	0	CU M/MI	3975.151515	CU M
SP4	Day 6	09.02.2004	17.3	0	CU M/MI	3975.227273	CU M
SP4	Day 6	09.02.2004	17.35	0.18331	CU M/MI	3977.121212	CU M
SP4	Day 6	09.02.2004	17.4	0.49066	CU M/MI	3978.484848	CU M
SP4	Day 6	09.02.2004	17.45	0	CU M/MI	3980	CU M
SP4	Day 6	09.02.2004	17.5	0.46274	CU M/MI	3981.666667	CU M
SP4	Day 6	09.02.2004	17.55	0.32192	CU M/MI	3982.916667	CU M
SP4	Day 6	09.02.2004	18	0.01875	CU M/MI	3983.636364	CU M
SP4	Day 6	09.02.2004	18.05	0.39557	CU M/MI	3985.30303	CU M
SP4	Day 6	09.02.2004	18.1	0.45887	CU M/MI	3987.310606	CU M
SP4	Day 6	09.02.2004	18.15	0	CU M/MI	3988.522727	CU M
SP4	Day 6	09.02.2004	18.2	0.25441	CU M/MI	3989.431818	CU M
SP4	Day 6	09.02.2004	18.25	0.45865	CU M/MI	3990.871212	CU M
SP4	Day 6	09.02.2004	18.3	0.28209	CU M/MI	3992.651515	CU M
SP4	Day 6	09.02.2004	18.35	0.12713	CU M/MI	3993.636364	CU M
SP4	Day 6	09.02.2004	18.4	0.00157	CU M/MI	3994.015152	CU M
SP4	Day 6	09.02.2004	18.45	0.50249	CU M/MI	3996.212121	CU M
SP4	Day 6	09.02.2004	18.5	0	CU M/MI	3997.689394	CU M
SP4	Day 6	09.02.2004	18.55	0.46008	CU M/MI	3999.924242	CU M
SP4	Day 6	09.02.2004	19	0.03323	CU M/MI	4000.530303	CU M
SP4	Day 6	09.02.2004	19.05	0.46476	CU M/MI	4002.348485	CU M
SP4	Day 6	09.02.2004	19.1	0.04331	CU M/MI	4003.181818	CU M
SP4	Day 6	09.02.2004	19.15	0	CU M/MI	4005	CU M
SP4	Day 6	09.02.2004	19.2	0.24116	CU M/MI	4005.378788	CU M
SP4	Day 6	09.02.2004	19.25	0.49515	CU M/MI	4006.704545	CU M
SP4	Day 6	09.02.2004	19.3	0.06734	CU M/MI	4007.992424	CU M
SP4	Day 6	09.02.2004	19.35	0	CU M/MI	4008.333333	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 6	09.02.2004	19.4	0.49291	CU M/MI	4008.75	CU M
SP4	Day 6	09.02.2004	19.45	0.35963	CU M/MI	4011.098485	CU M
SP4	Day 6	09.02.2004	19.5	0.39802	CU M/MI	4013.143939	CU M
SP4	Day 6	09.02.2004	19.55	0.03227	CU M/MI	4015.265152	CU M
SP4	Day 6	09.02.2004	20	0.36911	CU M/MI	4017.045455	CU M
SP4	Day 6	09.02.2004	20.05	0	CU M/MI	4017.537879	CU M
SP4	Day 6	09.02.2004	20.1	0	CU M/MI	4018.030303	CU M
SP4	Day 6	09.02.2004	20.15	0.18008	CU M/MI	4018.75	CU M
SP4	Day 6	09.02.2004	20.2	0.26872	CU M/MI	4020.568182	CU M
SP4	Day 6	09.02.2004	20.25	0.04636	CU M/MI	4021.969697	CU M
SP4	Day 6	09.02.2004	20.3	0.4946	CU M/MI	4023.560606	CU M
SP4	Day 6	09.02.2004	20.35	0.39994	CU M/MI	4024.924242	CU M
SP4	Day 6	09.02.2004	20.4	0.15328	CU M/MI	4026.55303	CU M
SP4	Day 6	09.02.2004	20.45	0.46861	CU M/MI	4028.257576	CU M
SP4	Day 6	09.02.2004	20.5	0.36273	CU M/MI	4029.848485	CU M
SP4	Day 6	09.02.2004	20.55	0.04742	CU M/MI	4030.681818	CU M
SP4	Day 6	09.02.2004	21	0	CU M/MI	4031.098485	CU M
SP4	Day 6	09.02.2004	21.05	0.06143	CU M/MI	4031.401515	CU M
SP4	Day 6	09.02.2004	21.1	0.06907	CU M/MI	4031.666667	CU M
SP4	Day 6	09.02.2004	21.15	0.50047	CU M/MI	4033.219697	CU M
SP4	Day 6	09.02.2004	21.2	0.39746	CU M/MI	4035.265152	CU M
SP4	Day 6	09.02.2004	21.25	0.36114	CU M/MI	4037.5	CU M
SP4	Day 6	09.02.2004	21.3	0.1358	CU M/MI	4038.901515	CU M
SP4	Day 6	09.02.2004	21.35	0	CU M/MI	4039.166667	CU M
SP4	Day 6	09.02.2004	21.4	0.09814	CU M/MI	4039.507576	CU M
SP4	Day 6	09.02.2004	21.45	0.08227	CU M/MI	4039.659091	CU M
SP4	Day 6	09.02.2004	21.5	0.05674	CU M/MI	4040	CU M
SP4	Day 6	09.02.2004	21.55	0.18014	CU M/MI	4040.189394	CU M
SP4	Day 6	09.02.2004	22	0.06524	CU M/MI	4040.568182	CU M
SP4	Day 6	09.02.2004	22.05	0.06693	CU M/MI	4040.833333	CU M
SP4	Day 6	09.02.2004	22.1	0.36984	CU M/MI	4041.439394	CU M
SP4	Day 6	09.02.2004	22.15	0.49069	CU M/MI	4043.44697	CU M
SP4	Day 6	09.02.2004	22.2	0.00644	CU M/MI	4044.469697	CU M
SP4	Day 6	09.02.2004	22.25	0.05428	CU M/MI	4044.810606	CU M
SP4	Day 6	09.02.2004	22.3	0.48719	CU M/MI	4045.909091	CU M
SP4	Day 6	09.02.2004	22.35	0.49866	CU M/MI	4048.409091	CU M
SP4	Day 6	09.02.2004	22.4	0.49871	CU M/MI	4050.643939	CU M
SP4	Day 6	09.02.2004	22.45	0.49981	CU M/MI	4052.80303	CU M
SP4	Day 6	09.02.2004	22.5	0.27764	CU M/MI	4054.431818	CU M
SP4	Day 6	09.02.2004	22.55	0	CU M/MI	4055.606061	CU M
SP4	Day 6	09.02.2004	23	0	CU M/MI	4056.25	CU M
SP4	Day 6	09.02.2004	23.05	0	CU M/MI	4056.704545	CU M
SP4	Day 6	09.02.2004	23.1	0.50106	CU M/MI	4057.916667	CU M
SP4	Day 6	09.02.2004	23.15	0.05627	CU M/MI	4059.128788	CU M
SP4	Day 6	09.02.2004	23.2	0.05243	CU M/MI	4059.431818	CU M
SP4	Day 6	09.02.2004	23.25	0.05039	CU M/MI	4059.659091	CU M
SP4	Day 6	09.02.2004	23.3	0.14612	CU M/MI	4060	CU M
SP4	Day 6	09.02.2004	23.35	0.05094	CU M/MI	4060.189394	CU M
SP4	Day 6	09.02.2004	23.4	0	CU M/MI	4060.454545	CU M
SP4	Day 6	09.02.2004	23.45	0.06958	CU M/MI	4060.643939	CU M
SP4	Day 6	09.02.2004	23.5	0.05896	CU M/MI	4060.871212	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 6	09.02.2004	23.55	0.49951	CU M/MI	4063.219697	CU M
SP4	Day 6	09.03.2004	0	0.50096	CU M/MI	4065.454545	CU M
SP4	Day 6	09.03.2004	0.05	0.49828	CU M/MI	4067.954545	CU M
SP4	Day 6	09.03.2004	0.1	0.38683	CU M/MI	4070	CU M
SP4	Day 6	09.03.2004	0.15	0.48782	CU M/MI	4072.462121	CU M
SP4	Day 6	09.03.2004	0.2	0.40822	CU M/MI	4074.659091	CU M
SP4	Day 6	09.03.2004	0.25	0.35278	CU M/MI	4076.628788	CU M
SP4	Day 6	09.03.2004	0.3	0.49631	CU M/MI	4078.636364	CU M
SP4	Day 6	09.03.2004	0.35	0	CU M/MI	4080.681818	CU M
SP4	Day 6	09.03.2004	0.4	0.00748	CU M/MI	4081.780303	CU M
SP4	Day 6	09.03.2004	0.45	0.33102	CU M/MI	4082.80303	CU M
SP4	Day 6	09.03.2004	0.5	0.01879	CU M/MI	4084.015152	CU M
SP4	Day 6	09.03.2004	0.55	0.19786	CU M/MI	4085.454545	CU M
SP4	Day 6	09.03.2004	1	0.27099	CU M/MI	4086.704545	CU M
SP4	Day 6	09.03.2004	1.05	0.3958	CU M/MI	4088.522727	CU M
SP4	Day 6	09.03.2004	1.1	0.36223	CU M/MI	4090.416667	CU M
SP4	Day 6	09.03.2004	1.15	0.00826	CU M/MI	4090.984848	CU M
SP4	Day 6	09.03.2004	1.2	0	CU M/MI	4092.234848	CU M
SP4	Day 6	09.03.2004	1.25	0.46489	CU M/MI	4093.825758	CU M
SP4	Day 6	09.03.2004	1.3	0.02768	CU M/MI	4094.545455	CU M
SP4	Day 6	09.03.2004	1.35	0.4622	CU M/MI	4096.780303	CU M
SP4	Day 6	09.03.2004	1.4	0.19674	CU M/MI	4097.992424	CU M
SP4	Day 6	09.03.2004	1.45	0.27566	CU M/MI	4099.583333	CU M
SP4	Day 6	09.03.2004	1.5	0.45361	CU M/MI	4100.643939	CU M
SP4	Day 6	09.03.2004	1.55	0.38694	CU M/MI	4101.969697	CU M
SP4	Day 6	09.03.2004	2	0.46282	CU M/MI	4103.44697	CU M
SP4	Day 6	09.03.2004	2.05	0.01773	CU M/MI	4104.772727	CU M
SP4	Day 6	09.03.2004	2.1	0.49659	CU M/MI	4106.25	CU M
SP4	Day 6	09.03.2004	2.15	0	CU M/MI	4107.5	CU M
SP4	Day 6	09.03.2004	2.2	0.14954	CU M/MI	4107.651515	CU M
SP4	Day 6	09.03.2004	2.25	0.1443	CU M/MI	4108.333333	CU M
SP4	Day 6	09.03.2004	2.3	0.35244	CU M/MI	4109.469697	CU M
SP4	Day 6	09.03.2004	2.35	0.25927	CU M/MI	4110.94697	CU M
SP4	Day 6	09.03.2004	2.4	0.4952	CU M/MI	4112.727273	CU M
SP4	Day 6	09.03.2004	2.45	0.18786	CU M/MI	4114.962121	CU M
SP4	Day 6	09.03.2004	2.5	0.39158	CU M/MI	4116.098485	CU M
SP4	Day 6	09.03.2004	2.55	0.35279	CU M/MI	4117.916667	CU M
SP4	Day 6	09.03.2004	3	0.48186	CU M/MI	4118.333333	CU M
SP4	Day 6	09.03.2004	3.05	0	CU M/MI	4120.378788	CU M
SP4	Day 6	09.03.2004	3.1	0.45966	CU M/MI	4122.045455	CU M
SP4	Day 6	09.03.2004	3.15	0	CU M/MI	4122.613636	CU M
SP4	Day 6	09.03.2004	3.2	0	CU M/MI	4123.106061	CU M
SP4	Day 6	09.03.2004	3.25	0	CU M/MI	4123.068182	CU M
SP4	Day 6	09.03.2004	3.3	0	CU M/MI	4123.068182	CU M
SP4	Day 6	09.03.2004	3.35	0	CU M/MI	4123.030303	CU M
SP4	Day 6	09.03.2004	3.4	0	CU M/MI	4123.030303	CU M
SP4	Day 6	09.03.2004	3.45	0	CU M/MI	4122.992424	CU M
SP4	Day 6	09.03.2004	3.5	0	CU M/MI	4122.954545	CU M
SP4	Day 6	09.03.2004	3.55	0	CU M/MI	4122.954545	CU M
SP4	Day 6	09.03.2004	4	0	CU M/MI	4122.916667	CU M
SP4	Day 6	09.03.2004	4.05	0	CU M/MI	4122.878788	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 6	09.03.2004	4.1	0	CU M/MI	4122.878788	CU M
SP4	Day 6	09.03.2004	4.15	0	CU M/MI	4122.840909	CU M
SP4	Day 6	09.03.2004	4.2	0	CU M/MI	4122.840909	CU M
SP4	Day 6	09.03.2004	4.25	0	CU M/MI	4122.80303	CU M
SP4	Day 6	09.03.2004	4.3	0	CU M/MI	4122.765152	CU M
SP4	Day 6	09.03.2004	4.35	0	CU M/MI	4122.765152	CU M
SP4	Day 6	09.03.2004	4.4	0	CU M/MI	4122.727273	CU M
SP4	Day 6	09.03.2004	4.45	0	CU M/MI	4122.689394	CU M
SP4	Day 6	09.03.2004	4.5	0	CU M/MI	4122.689394	CU M
SP4	Day 6	09.03.2004	4.55	0.18605	CU M/MI	4123.712121	CU M
SP4	Day 6	09.03.2004	5	0.48808	CU M/MI	4125.151515	CU M
SP4	Day 6	09.03.2004	5.05	0.34591	CU M/MI	4127.424242	CU M
SP4	Day 6	09.03.2004	5.1	0.48936	CU M/MI	4129.772727	CU M
SP4	Day 6	09.03.2004	5.15	0.37259	CU M/MI	4131.969697	CU M
SP4	Day 6	09.03.2004	5.2	0.48523	CU M/MI	4134.393939	CU M
SP4	Day 6	09.03.2004	5.25	0.47761	CU M/MI	4136.55303	CU M
SP4	Day 6	09.03.2004	5.3	0.48545	CU M/MI	4138.977273	CU M
SP4	Day 6	09.03.2004	5.35	0.48523	CU M/MI	4141.136364	CU M
SP4	Day 6	09.03.2004	5.4	0.48363	CU M/MI	4143.560606	CU M
SP4	Day 6	09.03.2004	5.45	0.48383	CU M/MI	4145.719697	CU M
SP4	Day 6	09.03.2004	5.5	0.48588	CU M/MI	4148.143939	CU M
SP4	Day 6	09.03.2004	5.55	0.48448	CU M/MI	4150.340909	CU M
SP4	Day 7	09.03.2004	6	0.48374	CU M/MI	4152.765152	CU M
SP4	Day 7	09.03.2004	6.05	0.48199	CU M/MI	4154.924242	CU M
SP4	Day 7	09.03.2004	6.1	0.48216	CU M/MI	4157.121212	CU M
SP4	Day 7	09.03.2004	6.15	0.48287	CU M/MI	4159.280303	CU M
SP4	Day 7	09.03.2004	6.2	0.33634	CU M/MI	4161.704545	CU M
SP4	Day 7	09.03.2004	6.25	0.28476	CU M/MI	4162.80303	CU M
SP4	Day 7	09.03.2004	6.3	0.27448	CU M/MI	4164.280303	CU M
SP4	Day 7	09.03.2004	6.35	0	CU M/MI	4165.075758	CU M
SP4	Day 7	09.03.2004	6.4	0.48582	CU M/MI	4166.590909	CU M
SP4	Day 7	09.03.2004	6.45	0.48573	CU M/MI	4168.106061	CU M
SP4	Day 7	09.03.2004	6.5	0.27674	CU M/MI	4170.189394	CU M
SP4	Day 7	09.03.2004	6.55	0.26488	CU M/MI	4171.363636	CU M
SP4	Day 7	09.03.2004	7	0.48743	CU M/MI	4173.257576	CU M
SP4	Day 7	09.03.2004	7.05	0.48651	CU M/MI	4175.454545	CU M
SP4	Day 7	09.03.2004	7.1	0.48535	CU M/MI	4177.878788	CU M
SP4	Day 7	09.03.2004	7.15	0.45315	CU M/MI	4179.962121	CU M
SP4	Day 7	09.03.2004	7.2	0.38302	CU M/MI	4180.795455	CU M
SP4	Day 7	09.03.2004	7.25	0.45474	CU M/MI	4181.780303	CU M
SP4	Day 7	09.03.2004	7.3	0.45449	CU M/MI	4183.295455	CU M
SP4	Day 7	09.03.2004	7.35	0.28105	CU M/MI	4184.393939	CU M
SP4	Day 7	09.03.2004	7.4	0.00117	CU M/MI	4186.212121	CU M
SP4	Day 7	09.03.2004	7.45	0	CU M/MI	4186.439394	CU M
SP4	Day 7	09.03.2004	7.5	0.25717	CU M/MI	4186.856061	CU M
SP4	Day 7	09.03.2004	7.55	0.25738	CU M/MI	4187.575758	CU M
SP4	Day 7	09.03.2004	8	0.15068	CU M/MI	4188.825758	CU M
SP4	Day 7	09.03.2004	8.05	0.16635	CU M/MI	4189.166667	CU M
SP4	Day 7	09.03.2004	8.1	0.03416	CU M/MI	4190.30303	CU M
SP4	Day 7	09.03.2004	8.15	0.00226	CU M/MI	4190.227273	CU M
SP4	Day 7	09.03.2004	8.2	0.02815	CU M/MI	4191.477273	CU M

Appendix B
Raw Flow from Influent (SP-4)
23 August Through 3 September 2004

Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP4	Day 7	09.03.2004	8.25	0.00531	CU M/MI	4191.55303	CU M
SP4	Day 7	09.03.2004	8.3	0.06784	CU M/MI	4192.613636	CU M
SP4	Day 7	09.03.2004	8.35	0.22243	CU M/MI	4192.727273	CU M
SP4	Day 7	09.03.2004	8.4	0.26715	CU M/MI	4194.015152	CU M
SP4	Day 7	09.03.2004	8.45	0.0246	CU M/MI	4194.204545	CU M
SP4	Day 7	09.03.2004	8.5	0.38452	CU M/MI	4195.492424	CU M
SP4	Day 7	09.03.2004	8.55	0.03005	CU M/MI	4195.681818	CU M
SP4	Day 7	09.03.2004	9	0.21415	CU M/MI	4196.325758	CU M
SP4	Day 7	09.03.2004	9.05	0	CU M/MI	4196.439394	CU M
SP4	Day 7	09.03.2004	9.1	0	CU M/MI	4196.742424	CU M
SP4	Day 7	09.03.2004	9.15	0.05354	CU M/MI	4197.613636	CU M
SP4	Day 7	09.03.2004	9.2	0.12539	CU M/MI	4198.257576	CU M
SP4	Day 7	09.03.2004	9.25	0.03719	CU M/MI	4198.522727	CU M
SP4	Day 7	09.03.2004	9.3	0	CU M/MI	4199.545455	CU M
SP4	Day 7	09.03.2004	9.35	0.18753	CU M/MI	4199.69697	CU M
SP4	Day 7	09.03.2004	9.4	0.06718	CU M/MI	4199.924242	CU M
SP4	Day 7	09.03.2004	9.45	0.2776	CU M/MI	4200.833333	CU M
SP4	Day 7	09.03.2004	9.5	0.03713	CU M/MI	4201.136364	CU M
SP4	Day 7	09.03.2004	9.55	0.38633	CU M/MI	4201.818182	CU M
SP4	Day 7	09.03.2004	10	0.03756	CU M/MI	4202.386364	CU M
SP4	Day 7	09.03.2004	10.05	0	CU M/MI	4203.522727	CU M
SP4	Day 7	09.03.2004	10.1	0.02788	CU M/MI	4203.560606	CU M
SP4	Day 7	09.03.2004	10.15	0	CU M/MI	4204.69697	CU M
SP4	Day 7	09.03.2004	10.2	0.0274	CU M/MI	4204.734848	CU M
SP4	Day 7	09.03.2004	10.25	0.25941	CU M/MI	4205	CU M

Appendix B
Raw Flow from Effluent (SP-6)
23 August Through 3 September 2004

Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6		08.23.2004	15.4	0.3779200	CU M/MI	538.341	CU M
SP6		08.23.2004	15.45	0.3764100	CU M/MI	540.082	CU M
SP6		08.23.2004	15.5	0.3774900	CU M/MI	541.785	CU M
SP6		08.23.2004	15.55	0.3745300	CU M/MI	543.677	CU M
SP6		08.23.2004	16	0.3776800	CU M/MI	545.381	CU M
SP6		08.23.2004	16.05	0.3787700	CU M/MI	547.273	CU M
SP6		08.23.2004	16.1	0.3787600	CU M/MI	548.976	CU M
SP6		08.23.2004	16.15	0.3758500	CU M/MI	550.680	CU M
SP6		08.23.2004	16.2	0.3785300	CU M/MI	552.572	CU M
SP6		08.23.2004	16.25	0.3779400	CU M/MI	554.238	CU M
SP6		08.23.2004	16.3	0.3787600	CU M/MI	556.130	CU M
SP6		08.23.2004	16.35	0.3791600	CU M/MI	557.909	CU M
SP6		08.23.2004	16.4	0.3786800	CU M/MI	559.612	CU M
SP6		08.23.2004	16.45	0.3768000	CU M/MI	561.505	CU M
SP6		08.23.2004	16.5	0.3771500	CU M/MI	563.246	CU M
SP6		08.23.2004	16.55	0.3771900	CU M/MI	565.138	CU M
SP6		08.23.2004	17	0.3777900	CU M/MI	566.842	CU M
SP6		08.23.2004	17.05	0.3750100	CU M/MI	568.583	CU M
SP6		08.23.2004	17.1	0.3779500	CU M/MI	570.475	CU M
SP6		08.23.2004	17.15	0.3781600	CU M/MI	572.178	CU M
SP6		08.23.2004	17.2	0.3788200	CU M/MI	574.071	CU M
SP6		08.23.2004	17.25	0.3797900	CU M/MI	575.850	CU M
SP6		08.23.2004	17.3	0.3744100	CU M/MI	577.553	CU M
SP6		08.23.2004	17.35	0.3777600	CU M/MI	579.446	CU M
SP6		08.23.2004	17.4	0.3782300	CU M/MI	581.187	CU M
SP6		08.23.2004	17.45	0.3789000	CU M/MI	583.079	CU M
SP6		08.23.2004	17.5	0.3794000	CU M/MI	584.820	CU M
SP6		08.23.2004	17.55	0.3757100	CU M/MI	586.561	CU M
SP6		08.23.2004	18	0.3777100	CU M/MI	588.454	CU M
SP6		08.23.2004	18.05	0.3784300	CU M/MI	590.195	CU M
SP6		08.23.2004	18.15	0.3804700	CU M/MI	593.829	CU M
SP6		08.23.2004	18.2	0.3760000	CU M/MI	595.570	CU M
SP6		08.23.2004	18.25	0.3775000	CU M/MI	597.462	CU M
SP6		08.23.2004	18.3	0.3781100	CU M/MI	599.203	CU M
SP6		08.23.2004	18.35	0.3783600	CU M/MI	601.096	CU M
SP6		08.23.2004	18.4	0.3770500	CU M/MI	602.837	CU M
SP6		08.23.2004	18.45	0.3763000	CU M/MI	604.578	CU M
SP6		08.23.2004	18.5	0.3805700	CU M/MI	606.471	CU M
SP6		08.23.2004	18.55	0.3829100	CU M/MI	608.250	CU M
SP6		08.23.2004	19	0.3825900	CU M/MI	610.142	CU M
SP6		08.23.2004	19.05	0.3796400	CU M/MI	611.845	CU M
SP6		08.23.2004	19.1	0.3767500	CU M/MI	613.586	CU M
SP6		08.23.2004	19.15	0.3778600	CU M/MI	615.479	CU M
SP6		08.23.2004	19.2	0.3799100	CU M/MI	617.220	CU M
SP6		08.23.2004	19.25	0.3797600	CU M/MI	619.112	CU M
SP6		08.23.2004	19.3	0.3785500	CU M/MI	620.854	CU M
SP6		08.23.2004	19.35	0.3782300	CU M/MI	622.595	CU M
SP6		08.23.2004	19.4	0.3782200	CU M/MI	624.487	CU M
SP6		08.23.2004	19.45	0.3791200	CU M/MI	626.228	CU M
SP6		08.23.2004	19.5	0.3785000	CU M/MI	628.121	CU M
SP6		08.23.2004	19.55	0.3788600	CU M/MI	629.900	CU M
SP6		08.23.2004	20	0.3803900	CU M/MI	631.792	CU M
SP6		08.23.2004	20.05	0.3801100	CU M/MI	633.495	CU M
SP6		08.23.2004	20.1	0.3782800	CU M/MI	635.426	CU M
SP6		08.23.2004	20.15	0.3817700	CU M/MI	637.167	CU M
SP6		08.23.2004	20.2	0.3817200	CU M/MI	639.059	CU M
SP6		08.23.2004	20.25	0.3830300	CU M/MI	640.838	CU M
SP6		08.23.2004	20.3	0.3824100	CU M/MI	642.617	CU M
SP6		08.23.2004	20.35	0.3814100	CU M/MI	644.510	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6		08.23.2004	20.4	0.0121700	CU M/MI	646.251	CU M
SP6		08.23.2004	20.45	0.3801200	CU M/MI	648.143	CU M
SP6		08.23.2004	20.5	0.3809500	CU M/MI	650.036	CU M
SP6		08.23.2004	20.55	0.3778800	CU M/MI	651.777	CU M
SP6		08.23.2004	21	0.3799800	CU M/MI	653.670	CU M
SP6		08.23.2004	21.05	0.3781800	CU M/MI	655.411	CU M
SP6		08.23.2004	21.1	0.0373100	CU M/MI	657.303	CU M
SP6		08.23.2004	21.15	0.3803600	CU M/MI	659.082	CU M
SP6		08.23.2004	21.2	0.3801700	CU M/MI	660.747	CU M
SP6		08.23.2004	21.25	0.3787700	CU M/MI	662.640	CU M
SP6		08.23.2004	21.3	0.3753900	CU M/MI	664.343	CU M
SP6		08.23.2004	21.35	0.3742300	CU M/MI	666.236	CU M
SP6		08.23.2004	21.4	0.3789200	CU M/MI	667.939	CU M
SP6		08.23.2004	21.45	0.3781000	CU M/MI	669.604	CU M
SP6		08.23.2004	21.5	0.3805000	CU M/MI	671.497	CU M
SP6		08.23.2004	21.55	0.3805800	CU M/MI	673.200	CU M
SP6		08.23.2004	22	0.3757800	CU M/MI	675.093	CU M
SP6		08.23.2004	22.05	0.3835300	CU M/MI	676.796	CU M
SP6		08.23.2004	22.1	0.3809400	CU M/MI	678.575	CU M
SP6		08.23.2004	22.15	0.3772900	CU M/MI	680.316	CU M
SP6		08.23.2004	22.2	0.3843700	CU M/MI	682.171	CU M
SP6		08.23.2004	22.25	0.3803100	CU M/MI	683.874	CU M
SP6		08.23.2004	22.3	0.3801300	CU M/MI	685.766	CU M
SP6		08.23.2004	22.35	0.3807900	CU M/MI	687.507	CU M
SP6		08.23.2004	22.4	0.0184000	CU M/MI	689.324	CU M
SP6		08.23.2004	22.45	0.3801400	CU M/MI	691.141	CU M
SP6		08.23.2004	22.5	0.3827400	CU M/MI	692.882	CU M
SP6		08.23.2004	22.55	0.3808000	CU M/MI	694.812	CU M
SP6		08.23.2004	23	0.3816500	CU M/MI	696.516	CU M
SP6		08.23.2004	23.05	0.0436100	CU M/MI	698.408	CU M
SP6		08.23.2004	23.1	0.3810200	CU M/MI	700.187	CU M
SP6		08.23.2004	23.15	0.3795500	CU M/MI	701.928	CU M
SP6		08.23.2004	23.2	0.3793900	CU M/MI	703.821	CU M
SP6		08.23.2004	23.25	0.3813900	CU M/MI	705.562	CU M
SP6		08.23.2004	23.3	0.3804800	CU M/MI	707.492	CU M
SP6		08.23.2004	23.35	0.3817700	CU M/MI	709.195	CU M
SP6		08.23.2004	23.4	0.3810800	CU M/MI	710.937	CU M
SP6		08.23.2004	23.45	0.3805300	CU M/MI	712.867	CU M
SP6		08.23.2004	23.5	0.3812400	CU M/MI	714.608	CU M
SP6		08.23.2004	23.55	0.3797900	CU M/MI	716.501	CU M
SP6		08.24.2004	0	0.3804000	CU M/MI	718.242	CU M
SP6		08.24.2004	0.05	0.3789500	CU M/MI	719.983	CU M
SP6		08.24.2004	0.1	0.3807800	CU M/MI	721.875	CU M
SP6		08.24.2004	0.15	0.3814900	CU M/MI	723.616	CU M
SP6		08.24.2004	0.2	0.3804100	CU M/MI	725.509	CU M
SP6		08.24.2004	0.25	0.3797300	CU M/MI	727.250	CU M
SP6		08.24.2004	0.3	0.3795400	CU M/MI	728.991	CU M
SP6		08.24.2004	0.35	0.3814900	CU M/MI	730.884	CU M
SP6		08.24.2004	0.4	0.3801500	CU M/MI	732.625	CU M
SP6		08.24.2004	0.45	0.3800800	CU M/MI	734.517	CU M
SP6		08.24.2004	0.5	0.3767700	CU M/MI	736.258	CU M
SP6		08.24.2004	0.55	0.3788500	CU M/MI	738.037	CU M
SP6		08.24.2004	1	0.3783000	CU M/MI	739.778	CU M
SP6		08.24.2004	1.05	0.3797000	CU M/MI	741.557	CU M
SP6		08.24.2004	1.1	0.3806800	CU M/MI	743.298	CU M
SP6		08.24.2004	1.15	0.3784400	CU M/MI	745.077	CU M
SP6		08.24.2004	1.2	0.0138800	CU M/MI	746.856	CU M
SP6		08.24.2004	1.25	0.3791100	CU M/MI	748.749	CU M
SP6		08.24.2004	1.3	0.3790800	CU M/MI	750.490	CU M

Appendix B
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6		08.24.2004	1.35	0.3790400	CU M/MI	752.269	CU M
SP6		08.24.2004	1.4	0.3790100	CU M/MI	754.010	CU M
SP6		08.24.2004	1.45	0.3782100	CU M/MI	755.789	CU M
SP6		08.24.2004	1.5	0.3780500	CU M/MI	757.530	CU M
SP6		08.24.2004	1.55	0.3770700	CU M/MI	759.309	CU M
SP6		08.24.2004	2	0.3602100	CU M/MI	761.050	CU M
SP6		08.24.2004	2.05	0.3788500	CU M/MI	762.942	CU M
SP6		08.24.2004	2.1	0.3773300	CU M/MI	764.684	CU M
SP6		08.24.2004	2.15	0.3783500	CU M/MI	766.463	CU M
SP6		08.24.2004	2.2	0.3751000	CU M/MI	768.204	CU M
SP6		08.24.2004	2.25	0.3779000	CU M/MI	770.096	CU M
SP6		08.24.2004	2.3	0.3774600	CU M/MI	771.875	CU M
SP6		08.24.2004	2.35	0.3784300	CU M/MI	773.768	CU M
SP6		08.24.2004	2.4	0.3805200	CU M/MI	775.509	CU M
SP6		08.24.2004	2.45	0.3768700	CU M/MI	777.288	CU M
SP6		08.24.2004	2.5	0.3775400	CU M/MI	779.180	CU M
SP6		08.24.2004	2.55	0.3791100	CU M/MI	780.921	CU M
SP6		08.24.2004	3	0.3802800	CU M/MI	782.814	CU M
SP6		08.24.2004	3.05	0.3797800	CU M/MI	784.555	CU M
SP6		08.24.2004	3.1	0.3767900	CU M/MI	786.334	CU M
SP6		08.24.2004	3.15	0.3800100	CU M/MI	788.226	CU M
SP6		08.24.2004	3.2	0.3785100	CU M/MI	789.930	CU M
SP6		08.24.2004	3.25	0.3786500	CU M/MI	791.822	CU M
SP6		08.24.2004	3.3	0.3813700	CU M/MI	793.563	CU M
SP6		08.24.2004	3.35	0.3752000	CU M/MI	795.342	CU M
SP6		08.24.2004	3.4	0.0068600	CU M/MI	797.045	CU M
SP6		08.24.2004	3.45	0.3768800	CU M/MI	798.900	CU M
SP6		08.24.2004	3.5	0.3769000	CU M/MI	800.603	CU M
SP6		08.24.2004	3.55	0.3779200	CU M/MI	802.496	CU M
SP6		08.24.2004	4	0.3791100	CU M/MI	804.199	CU M
SP6		08.24.2004	4.05	0.0129000	CU M/MI	805.978	CU M
SP6		08.24.2004	4.1	0.4773800	CU M/MI	807.795	CU M
SP6		08.24.2004	4.15	0.4720900	CU M/MI	809.574	CU M
SP6		08.24.2004	4.2	0.4732400	CU M/MI	811.315	CU M
SP6		08.24.2004	4.25	0.4653100	CU M/MI	813.018	CU M
SP6		08.24.2004	4.3	0.0067000	CU M/MI	814.835	CU M
SP6		08.24.2004	4.35	0.4732900	CU M/MI	816.765	CU M
SP6		08.24.2004	4.4	0.4727600	CU M/MI	818.506	CU M
SP6		08.24.2004	4.45	0.4714000	CU M/MI	820.210	CU M
SP6		08.24.2004	4.5	0.4572900	CU M/MI	821.913	CU M
SP6		08.24.2004	4.55	0.0120400	CU M/MI	823.805	CU M
SP6		08.24.2004	5	0.4723700	CU M/MI	825.660	CU M
SP6		08.24.2004	5.05	0.4712400	CU M/MI	827.363	CU M
SP6		08.24.2004	5.1	0.4706000	CU M/MI	829.104	CU M
SP6		08.24.2004	5.15	0.4348700	CU M/MI	830.808	CU M
SP6		08.24.2004	5.2	0.0222000	CU M/MI	832.776	CU M
SP6		08.24.2004	5.25	0.4751100	CU M/MI	834.555	CU M
SP6		08.24.2004	5.3	0.4757700	CU M/MI	836.296	CU M
SP6		08.24.2004	5.35	0.4686100	CU M/MI	837.999	CU M
SP6		08.24.2004	5.4	0.0054400	CU M/MI	839.778	CU M
SP6		08.24.2004	5.45	0.4742800	CU M/MI	841.746	CU M
SP6		08.24.2004	5.5	0.4752200	CU M/MI	843.449	CU M
SP6		08.24.2004	5.55	0.4788000	CU M/MI	845.153	CU M
SP6		08.24.2004	6	0.4657300	CU M/MI	846.894	CU M
SP6		08.24.2004	6.05	0.0075700	CU M/MI	848.748	CU M
SP6		08.24.2004	6.1	0.4809500	CU M/MI	850.679	CU M
SP6		08.24.2004	6.15	0.4837700	CU M/MI	852.420	CU M
SP6		08.24.2004	6.2	0.4819300	CU M/MI	854.123	CU M
SP6		08.24.2004	6.25	0.4662600	CU M/MI	855.826	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6		08.24.2004	6.3	0.0102400	CU M/MI	857.719	CU M
SP6		08.24.2004	6.35	0.4785600	CU M/MI	859.574	CU M
SP6		08.24.2004	6.4	0.4830400	CU M/MI	861.315	CU M
SP6		08.24.2004	6.45	0.4809100	CU M/MI	863.018	CU M
SP6		08.24.2004	6.5	0.4383400	CU M/MI	864.721	CU M
SP6		08.24.2004	6.55	0.0175200	CU M/MI	866.727	CU M
SP6		08.24.2004	7	0.4811000	CU M/MI	868.506	CU M
SP6		08.24.2004	7.05	0.4793400	CU M/MI	870.209	CU M
SP6		08.24.2004	7.1	0.4746200	CU M/MI	871.913	CU M
SP6		08.24.2004	7.15	0.0060900	CU M/MI	873.729	CU M
SP6		08.24.2004	7.2	0.0913100	CU M/MI	875.698	CU M
SP6		08.24.2004	7.25	0.4846700	CU M/MI	877.401	CU M
SP6		08.24.2004	7.3	0.4834700	CU M/MI	879.142	CU M
SP6		08.24.2004	7.35	0.4749700	CU M/MI	880.883	CU M
SP6		08.24.2004	7.4	0.0067000	CU M/MI	882.776	CU M
SP6		08.24.2004	7.45	0.4851800	CU M/MI	884.706	CU M
SP6		08.24.2004	7.5	0.4829600	CU M/MI	886.447	CU M
SP6		08.24.2004	7.55	0.4835400	CU M/MI	888.188	CU M
SP6		08.24.2004	8	0.4715900	CU M/MI	889.929	CU M
SP6		08.24.2004	8.05	0.0084800	CU M/MI	891.822	CU M
SP6		08.24.2004	8.1	0.4831200	CU M/MI	893.752	CU M
SP6		08.24.2004	8.35	0.4800700	CU M/MI	902.230	CU M
SP6		08.24.2004	8.4	0.0050900	CU M/MI	904.047	CU M
SP6		08.24.2004	8.45	0.0323000	CU M/MI	906.053	CU M
SP6		08.24.2004	8.5	0.4856100	CU M/MI	907.794	CU M
SP6		08.24.2004	8.55	0.4851100	CU M/MI	909.573	CU M
SP6		08.24.2004	9	0.4792300	CU M/MI	911.314	CU M
SP6		08.24.2004	9.05	0.0062100	CU M/MI	913.131	CU M
SP6		08.24.2004	9.1	0.3927400	CU M/MI	914.948	CU M
SP6		08.24.2004	9.15	0.3927800	CU M/MI	916.765	CU M
SP6		08.24.2004	9.2	0.3936100	CU M/MI	918.544	CU M
SP6		08.24.2004	9.25	0.3830900	CU M/MI	920.323	CU M
SP6		08.24.2004	9.3	0.0224200	CU M/MI	922.215	CU M
SP6		08.24.2004	9.35	0.3935800	CU M/MI	924.070	CU M
SP6		08.24.2004	9.4	0.3922000	CU M/MI	925.887	CU M
SP6		08.24.2004	9.45	0.3937600	CU M/MI	927.628	CU M
SP6		08.24.2004	9.5	0.3919400	CU M/MI	929.445	CU M
SP6		08.24.2004	9.55	0.3914300	CU M/MI	931.224	CU M
SP6		08.24.2004	10	0.3926300	CU M/MI	932.965	CU M
SP6		08.24.2004	10.05	0.3939000	CU M/MI	934.781	CU M
SP6		08.24.2004	10.1	0.3918600	CU M/MI	936.560	CU M
SP6		08.24.2004	10.15	0.3752000	CU M/MI	938.339	CU M
SP6		08.24.2004	10.2	0.0341200	CU M/MI	940.270	CU M
SP6		08.24.2004	10.25	0.3905300	CU M/MI	942.087	CU M
SP6		08.24.2004	10.3	0.3907900	CU M/MI	943.865	CU M
SP6		08.24.2004	10.35	0.3908600	CU M/MI	945.644	CU M
SP6		08.24.2004	10.4	0.3904600	CU M/MI	947.423	CU M
SP6		08.24.2004	10.45	0.3899800	CU M/MI	949.202	CU M
SP6		08.24.2004	10.5	0.3912000	CU M/MI	950.981	CU M
SP6		08.24.2004	10.55	0.3905700	CU M/MI	952.798	CU M
SP6		08.24.2004	11	0.3924700	CU M/MI	954.615	CU M
SP6		08.24.2004	11.05	0.3728000	CU M/MI	956.432	CU M
SP6		08.24.2004	11.1	0.0421300	CU M/MI	958.362	CU M
SP6		08.24.2004	11.15	0.3910400	CU M/MI	960.179	CU M
SP6		08.24.2004	11.2	0.3906800	CU M/MI	961.996	CU M
SP6		08.24.2004	11.25	0.3918800	CU M/MI	963.775	CU M
SP6		08.24.2004	11.3	0.3917500	CU M/MI	965.591	CU M
SP6		08.24.2004	11.35	0.3913700	CU M/MI	967.408	CU M
SP6		08.24.2004	11.4	0.3910300	CU M/MI	969.187	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6		08.24.2004	11.45	0.3926900	CU M/MI	971.004	CU M
SP6		08.24.2004	11.5	0.3919800	CU M/MI	972.821	CU M
SP6		08.24.2004	11.55	0.3898200	CU M/MI	974.600	CU M
SP6		08.24.2004	12	0.3547600	CU M/MI	976.416	CU M
SP6		08.24.2004	12.05	0.3897600	CU M/MI	978.347	CU M
SP6		08.24.2004	12.1	0.3915900	CU M/MI	980.164	CU M
SP6		08.24.2004	12.15	0.3914700	CU M/MI	981.943	CU M
SP6		08.24.2004	12.2	0.3921200	CU M/MI	983.684	CU M
SP6		08.24.2004	12.25	0.3925600	CU M/MI	985.425	CU M
SP6		08.24.2004	12.3	0.3917400	CU M/MI	987.166	CU M
SP6		08.24.2004	12.35	0.3926900	CU M/MI	988.907	CU M
SP6		08.24.2004	12.4	0.3920000	CU M/MI	990.686	CU M
SP6		08.24.2004	12.45	0.3654200	CU M/MI	992.427	CU M
SP6		08.24.2004	12.5	0.0336000	CU M/MI	994.357	CU M
SP6		08.24.2004	12.55	0.3909300	CU M/MI	996.098	CU M
SP6		08.24.2004	13	0.3923400	CU M/MI	997.877	CU M
SP6		08.24.2004	13.05	0.3909200	CU M/MI	999.581	CU M
SP6		08.24.2004	13.1	0.3893200	CU M/MI	1001.322	CU M
SP6		08.24.2004	13.15	0.3895400	CU M/MI	1003.063	CU M
SP6		08.24.2004	13.2	0.3919400	CU M/MI	1004.842	CU M
SP6		08.24.2004	13.25	0.3891500	CU M/MI	1006.583	CU M
SP6		08.24.2004	13.3	0.0113000	CU M/MI	1008.400	CU M
SP6		08.24.2004	13.35	0.3886700	CU M/MI	1010.330	CU M
SP6		08.24.2004	13.4	0.3896000	CU M/MI	1012.071	CU M
SP6		08.24.2004	13.45	0.3915300	CU M/MI	1013.850	CU M
SP6		08.24.2004	13.5	0.3892500	CU M/MI	1015.591	CU M
SP6		08.24.2004	13.55	0.3892500	CU M/MI	1017.370	CU M
SP6		08.24.2004	14	0.3899400	CU M/MI	1019.149	CU M
SP6		08.24.2004	14.05	0.3921100	CU M/MI	1020.890	CU M
SP6		08.24.2004	14.1	0.3851600	CU M/MI	1022.631	CU M
SP6		08.24.2004	14.15	0.0215100	CU M/MI	1024.524	CU M
SP6		08.24.2004	14.2	0.3909000	CU M/MI	1026.378	CU M
SP6		08.24.2004	14.25	0.3912600	CU M/MI	1028.120	CU M
SP6		08.24.2004	14.3	0.3911000	CU M/MI	1029.861	CU M
SP6		08.24.2004	14.35	0.3908300	CU M/MI	1031.640	CU M
SP6		08.24.2004	14.4	0.3913700	CU M/MI	1033.381	CU M
SP6		08.24.2004	14.45	0.3910300	CU M/MI	1035.160	CU M
SP6		08.24.2004	14.5	0.3905400	CU M/MI	1036.901	CU M
SP6		08.24.2004	14.55	0.3726000	CU M/MI	1038.718	CU M
SP6		08.24.2004	15	0.0356600	CU M/MI	1040.610	CU M
SP6		08.24.2004	15.05	0.3903600	CU M/MI	1042.427	CU M
SP6		08.24.2004	15.1	0.3921000	CU M/MI	1044.168	CU M
SP6		08.24.2004	15.15	0.3920900	CU M/MI	1045.947	CU M
SP6		08.24.2004	15.2	0.3906000	CU M/MI	1047.688	CU M
SP6		08.24.2004	15.25	0.3905000	CU M/MI	1049.467	CU M
SP6		08.24.2004	15.3	0.3919500	CU M/MI	1051.246	CU M
SP6		08.24.2004	15.35	0.3905400	CU M/MI	1052.987	CU M
SP6		08.24.2004	15.4	0.3530000	CU M/MI	1054.766	CU M
SP6		08.24.2004	15.45	0.3894900	CU M/MI	1056.696	CU M
SP6		08.24.2004	15.5	0.3910200	CU M/MI	1058.475	CU M
SP6		08.24.2004	15.55	0.3929000	CU M/MI	1060.254	CU M
SP6		08.24.2004	16	0.3933200	CU M/MI	1062.033	CU M
SP6		08.24.2004	16.05	0.3910600	CU M/MI	1063.774	CU M
SP6		08.24.2004	16.1	0.3906000	CU M/MI	1065.515	CU M
SP6		08.24.2004	16.15	0.3917400	CU M/MI	1067.256	CU M
SP6		08.24.2004	16.2	0.3851100	CU M/MI	1068.998	CU M
SP6		08.24.2004	16.25	0.0191900	CU M/MI	1070.852	CU M
SP6		08.24.2004	16.3	0.3906000	CU M/MI	1072.669	CU M
SP6		08.24.2004	16.35	0.3918600	CU M/MI	1074.410	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6		08.24.2004	16.4	0.3932100	CU M/MI	1076.189	CU M
SP6		08.24.2004	16.45	0.3917300	CU M/MI	1077.930	CU M
SP6		08.24.2004	16.5	0.3942200	CU M/MI	1079.671	CU M
SP6		08.24.2004	16.55	0.3927300	CU M/MI	1081.412	CU M
SP6		08.24.2004	17	0.3890200	CU M/MI	1083.153	CU M
SP6		08.24.2004	17.05	0.0136900	CU M/MI	1084.970	CU M
SP6		08.24.2004	17.1	0.3921500	CU M/MI	1086.863	CU M
SP6		08.24.2004	17.15	0.3928600	CU M/MI	1088.642	CU M
SP6		08.24.2004	17.2	0.3934000	CU M/MI	1090.421	CU M
SP6		08.24.2004	17.25	0.3930800	CU M/MI	1092.200	CU M
SP6		08.24.2004	17.35	0.3921700	CU M/MI	1095.795	CU M
SP6		08.24.2004	17.4	0.3941800	CU M/MI	1097.574	CU M
SP6		08.24.2004	17.45	0.3899200	CU M/MI	1099.353	CU M
SP6		08.24.2004	17.5	0.3729500	CU M/MI	1101.132	CU M
SP6		08.24.2004	17.55	0.0355200	CU M/MI	1103.063	CU M
SP6		08.24.2004	18	0.3901200	CU M/MI	1104.879	CU M
SP6		08.24.2004	18.05	0.3907100	CU M/MI	1106.658	CU M
SP6		08.24.2004	18.1	0.3917000	CU M/MI	1108.437	CU M
SP6		08.24.2004	18.15	0.3897200	CU M/MI	1110.216	CU M
SP6		08.24.2004	18.2	0.3905200	CU M/MI	1111.957	CU M
SP6		08.24.2004	18.25	0.3912900	CU M/MI	1113.736	CU M
SP6		08.24.2004	18.3	0.3910300	CU M/MI	1115.515	CU M
SP6		08.24.2004	18.35	0.3913100	CU M/MI	1117.256	CU M
SP6		08.24.2004	18.4	0.3586500	CU M/MI	1119.035	CU M
SP6		08.24.2004	18.45	0.0480200	CU M/MI	1120.966	CU M
SP6		08.24.2004	18.5	0.3917500	CU M/MI	1122.745	CU M
SP6		08.24.2004	18.55	0.3932500	CU M/MI	1124.524	CU M
SP6		08.24.2004	19	0.3929000	CU M/MI	1126.265	CU M
SP6		08.24.2004	19.05	0.3920900	CU M/MI	1128.044	CU M
SP6		08.24.2004	19.1	0.3929100	CU M/MI	1129.785	CU M
SP6		08.24.2004	19.15	0.3924200	CU M/MI	1131.564	CU M
SP6		08.24.2004	19.2	0.3928100	CU M/MI	1133.305	CU M
SP6		08.24.2004	19.25	0.3902400	CU M/MI	1135.084	CU M
SP6		08.24.2004	19.3	0.0107200	CU M/MI	1136.863	CU M
SP6		08.24.2004	19.35	0.3946100	CU M/MI	1138.793	CU M
SP6		08.24.2004	19.4	0.3920300	CU M/MI	1140.572	CU M
SP6		08.24.2004	19.45	0.3916200	CU M/MI	1142.313	CU M
SP6		08.24.2004	19.5	0.3899700	CU M/MI	1144.054	CU M
SP6		08.24.2004	19.55	0.3854300	CU M/MI	1145.795	CU M
SP6		08.24.2004	20	0.3867900	CU M/MI	1147.536	CU M
SP6		08.24.2004	20.05	0.3858500	CU M/MI	1149.277	CU M
SP6		08.24.2004	20.1	0.3862400	CU M/MI	1151.056	CU M
SP6		08.24.2004	20.15	0.3698300	CU M/MI	1152.797	CU M
SP6		08.24.2004	20.2	0.0516300	CU M/MI	1154.728	CU M
SP6		08.24.2004	20.25	0.3896200	CU M/MI	1156.507	CU M
SP6		08.24.2004	20.3	0.3881300	CU M/MI	1158.248	CU M
SP6		08.24.2004	20.35	0.3872100	CU M/MI	1159.989	CU M
SP6		08.24.2004	20.4	0.3864300	CU M/MI	1161.730	CU M
SP6		08.24.2004	20.45	0.3864500	CU M/MI	1163.509	CU M
SP6		08.24.2004	20.5	0.3863500	CU M/MI	1165.212	CU M
SP6		08.24.2004	20.55	0.3872500	CU M/MI	1166.953	CU M
SP6		08.24.2004	21	0.3720500	CU M/MI	1168.694	CU M
SP6		08.24.2004	21.05	0.0331200	CU M/MI	1170.625	CU M
SP6		08.24.2004	21.1	0.3860200	CU M/MI	1172.366	CU M
SP6		08.24.2004	21.15	0.3864700	CU M/MI	1174.107	CU M
SP6		08.24.2004	21.2	0.3854600	CU M/MI	1175.848	CU M
SP6		08.24.2004	21.25	0.3865100	CU M/MI	1177.589	CU M
SP6		08.24.2004	21.3	0.3868200	CU M/MI	1179.330	CU M
SP6		08.24.2004	21.35	0.3857800	CU M/MI	1181.071	CU M

Appendix B
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6		08.24.2004	21.4	0.3855200	CU M/MI	1182.813	CU M
SP6		08.24.2004	21.45	0.3689500	CU M/MI	1184.554	CU M
SP6		08.24.2004	21.5	0.0322400	CU M/MI	1186.446	CU M
SP6		08.24.2004	21.55	0.3852100	CU M/MI	1188.187	CU M
SP6		08.24.2004	22	0.3860400	CU M/MI	1189.966	CU M
SP6		08.24.2004	22.05	0.3867500	CU M/MI	1191.669	CU M
SP6		08.24.2004	22.1	0.3841000	CU M/MI	1193.411	CU M
SP6		08.24.2004	22.15	0.3849100	CU M/MI	1195.152	CU M
SP6		08.24.2004	22.2	0.3847800	CU M/MI	1196.893	CU M
SP6		08.24.2004	22.25	0.3850800	CU M/MI	1198.672	CU M
SP6		08.24.2004	22.3	0.3625700	CU M/MI	1200.413	CU M
SP6		08.24.2004	22.35	0.3848000	CU M/MI	1202.343	CU M
SP6		08.24.2004	22.4	0.3855500	CU M/MI	1204.084	CU M
SP6		08.24.2004	22.45	0.3868000	CU M/MI	1205.863	CU M
SP6		08.24.2004	22.5	0.3854500	CU M/MI	1207.604	CU M
SP6		08.24.2004	22.55	0.3854400	CU M/MI	1209.345	CU M
SP6		08.24.2004	23	0.3865300	CU M/MI	1211.124	CU M
SP6		08.24.2004	23.05	0.3865700	CU M/MI	1212.865	CU M
SP6		08.24.2004	23.1	0.3830900	CU M/MI	1214.607	CU M
SP6		08.24.2004	23.15	0.0109400	CU M/MI	1216.423	CU M
SP6		08.24.2004	23.2	0.3857000	CU M/MI	1218.278	CU M
SP6		08.24.2004	23.25	0.3857400	CU M/MI	1220.057	CU M
SP6		08.24.2004	23.3	0.3855000	CU M/MI	1221.798	CU M
SP6		08.24.2004	23.35	0.3853800	CU M/MI	1223.577	CU M
SP6		08.24.2004	23.4	0.3853600	CU M/MI	1225.280	CU M
SP6		08.24.2004	23.45	0.3854700	CU M/MI	1227.059	CU M
SP6		08.24.2004	23.5	0.3849000	CU M/MI	1228.800	CU M
SP6		08.24.2004	23.55	0.3805000	CU M/MI	1230.579	CU M
SP6		08.25.2004	0	0.0171300	CU M/MI	1232.396	CU M
SP6		08.25.2004	0.05	0.3848200	CU M/MI	1234.251	CU M
SP6		08.25.2004	0.1	0.3864600	CU M/MI	1235.992	CU M
SP6		08.25.2004	0.15	0.3872100	CU M/MI	1237.733	CU M
SP6		08.25.2004	0.2	0.3846600	CU M/MI	1239.512	CU M
SP6		08.25.2004	0.25	0.3855300	CU M/MI	1241.253	CU M
SP6		08.25.2004	0.3	0.3867200	CU M/MI	1242.994	CU M
SP6		08.25.2004	0.35	0.3860100	CU M/MI	1244.735	CU M
SP6		08.25.2004	0.4	0.3735500	CU M/MI	1246.514	CU M
SP6		08.25.2004	0.45	0.0352400	CU M/MI	1248.407	CU M
SP6		08.25.2004	0.5	0.3843100	CU M/MI	1250.186	CU M
SP6		08.25.2004	0.55	0.3847500	CU M/MI	1251.927	CU M
SP6		08.25.2004	1	0.3846700	CU M/MI	1253.668	CU M
SP6		08.25.2004	1.05	0.3842900	CU M/MI	1255.447	CU M
SP6		08.25.2004	1.1	0.3839100	CU M/MI	1257.188	CU M
SP6		08.25.2004	1.15	0.3867500	CU M/MI	1258.929	CU M
SP6		08.25.2004	1.2	0.3854400	CU M/MI	1260.708	CU M
SP6		08.25.2004	1.25	0.3542800	CU M/MI	1262.449	CU M
SP6		08.25.2004	1.3	0.3855600	CU M/MI	1264.379	CU M
SP6		08.25.2004	1.35	0.3868100	CU M/MI	1266.120	CU M
SP6		08.25.2004	1.4	0.3881000	CU M/MI	1267.899	CU M
SP6		08.25.2004	1.45	0.3857900	CU M/MI	1269.640	CU M
SP6		08.25.2004	1.5	0.3869700	CU M/MI	1271.419	CU M
SP6		08.25.2004	1.55	0.3864100	CU M/MI	1273.198	CU M
SP6		08.25.2004	2	0.3858900	CU M/MI	1274.977	CU M
SP6		08.25.2004	2.05	0.3865400	CU M/MI	1276.756	CU M
SP6		08.25.2004	2.1	0.3778600	CU M/MI	1278.535	CU M
SP6		08.25.2004	2.15	0.0252300	CU M/MI	1280.390	CU M
SP6		08.25.2004	2.2	0.3862300	CU M/MI	1282.244	CU M
SP6		08.25.2004	2.25	0.3859500	CU M/MI	1284.023	CU M
SP6		08.25.2004	2.3	0.3865400	CU M/MI	1285.802	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6		08.25.2004	2.35	0.3872000	CU M/MI	1287.581	CU M
SP6		08.25.2004	2.4	0.3862600	CU M/MI	1289.360	CU M
SP6		08.25.2004	2.45	0.3862200	CU M/MI	1291.139	CU M
SP6		08.25.2004	2.5	0.3874900	CU M/MI	1292.918	CU M
SP6		08.25.2004	2.55	0.3871500	CU M/MI	1294.697	CU M
SP6		08.25.2004	3	0.3788900	CU M/MI	1296.476	CU M
SP6		08.25.2004	3.05	0.0230400	CU M/MI	1298.331	CU M
SP6		08.25.2004	3.1	0.3864900	CU M/MI	1300.185	CU M
SP6		08.25.2004	3.15	0.3878200	CU M/MI	1301.889	CU M
SP6		08.25.2004	3.2	0.3864200	CU M/MI	1303.668	CU M
SP6		08.25.2004	3.25	0.3860500	CU M/MI	1305.371	CU M
SP6		08.25.2004	3.3	0.3859600	CU M/MI	1307.074	CU M
SP6		08.25.2004	3.35	0.3859300	CU M/MI	1308.815	CU M
SP6		08.25.2004	3.4	0.3848300	CU M/MI	1310.518	CU M
SP6		08.25.2004	3.45	0.3349000	CU M/MI	1312.222	CU M
SP6		08.25.2004	3.5	0.3841700	CU M/MI	1314.152	CU M
SP6		08.25.2004	3.55	0.3859800	CU M/MI	1315.855	CU M
SP6		08.25.2004	4	0.3853300	CU M/MI	1317.559	CU M
SP6		08.25.2004	4.05	0.3856500	CU M/MI	1319.300	CU M
SP6		08.25.2004	4.1	0.3861800	CU M/MI	1321.003	CU M
SP6		08.25.2004	4.15	0.3850600	CU M/MI	1322.744	CU M
SP6		08.25.2004	4.2	0.3856600	CU M/MI	1324.485	CU M
SP6		08.25.2004	4.25	0.3650400	CU M/MI	1326.226	CU M
SP6		08.25.2004	4.3	0.3819700	CU M/MI	1328.157	CU M
SP6		08.25.2004	4.35	0.3841100	CU M/MI	1329.898	CU M
SP6		08.25.2004	4.4	0.3851700	CU M/MI	1331.639	CU M
SP6		08.25.2004	4.45	0.3836400	CU M/MI	1333.342	CU M
SP6		08.25.2004	4.5	0.3838300	CU M/MI	1335.121	CU M
SP6		08.25.2004	4.55	0.3848200	CU M/MI	1336.824	CU M
SP6		08.25.2004	5	0.3907300	CU M/MI	1338.565	CU M
SP6		08.25.2004	5.05	0.3839200	CU M/MI	1340.306	CU M
SP6		08.25.2004	5.1	0.0185800	CU M/MI	1342.161	CU M
SP6		08.25.2004	5.15	0.3882300	CU M/MI	1343.978	CU M
SP6		08.25.2004	5.2	0.3895600	CU M/MI	1345.719	CU M
SP6		08.25.2004	5.25	0.3778000	CU M/MI	1346.968	CU M
SP6		08.25.2004	5.3	0.0042600	CU M/MI	1347.422	CU M
SP6		08.25.2004	5.35	0.0049700	CU M/MI	1347.422	CU M
SP6		08.25.2004	5.4	0.0054600	CU M/MI	1347.763	CU M
SP6		08.25.2004	5.45	0.0055500	CU M/MI	1347.763	CU M
SP6		08.25.2004	5.5	0.0077600	CU M/MI	1348.444	CU M
SP6		08.25.2004	5.55	0.0052700	CU M/MI	1348.482	CU M
SP6		08.25.2004	6	0.0051800	CU M/MI	1348.520	CU M
SP6		08.25.2004	6.05	0.3841700	CU M/MI	1348.785	CU M
SP6		08.25.2004	6.1	0.0047500	CU M/MI	1348.860	CU M
SP6		08.25.2004	6.15	0.0045000	CU M/MI	1348.860	CU M
SP6		08.25.2004	6.2	0.0043500	CU M/MI	1348.898	CU M
SP6		08.25.2004	6.25	0.0053300	CU M/MI	1349.239	CU M
SP6		08.25.2004	6.3	0.0052000	CU M/MI	1349.239	CU M
SP6		08.25.2004	6.35	0.0053500	CU M/MI	1349.277	CU M
SP6		08.25.2004	6.4	0.3872300	CU M/MI	1349.542	CU M
SP6		08.25.2004	6.45	0.0044700	CU M/MI	1349.996	CU M
SP6		08.25.2004	6.5	0.0042200	CU M/MI	1350.526	CU M
SP6		08.25.2004	6.55	0.0071700	CU M/MI	1351.586	CU M
SP6		08.25.2004	7	0.3864100	CU M/MI	1352.494	CU M
SP6		08.25.2004	7.05	0.3595100	CU M/MI	1352.721	CU M
SP6		08.25.2004	7.1	0.0030100	CU M/MI	1353.024	CU M
SP6		08.25.2004	7.15	0.0033900	CU M/MI	1353.024	CU M
SP6		08.25.2004	7.2	0.0037400	CU M/MI	1353.365	CU M
SP6		08.25.2004	7.25	0.0034800	CU M/MI	1353.365	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6		08.25.2004	7.3	0.0041000	CU M/MI	1353.705	CU M
SP6		08.25.2004	7.35	0.0037000	CU M/MI	1353.705	CU M
SP6		08.25.2004	7.4	0.0041700	CU M/MI	1353.743	CU M
SP6		08.25.2004	7.45	0.0042600	CU M/MI	1354.046	CU M
SP6		08.25.2004	7.5	0.0042100	CU M/MI	1354.046	CU M
SP6		08.25.2004	7.55	0.3846400	CU M/MI	1355.598	CU M
SP6		08.25.2004	8	0.3854900	CU M/MI	1357.301	CU M
SP6		08.25.2004	8.05	0.3732300	CU M/MI	1359.004	CU M
SP6		08.25.2004	8.1	0.0240000	CU M/MI	1360.897	CU M
SP6		08.25.2004	8.15	0.3840700	CU M/MI	1362.676	CU M
SP6		08.25.2004	8.2	0.3880100	CU M/MI	1364.417	CU M
SP6		08.25.2004	8.25	0.3886200	CU M/MI	1366.120	CU M
SP6		08.25.2004	8.3	0.3871500	CU M/MI	1367.861	CU M
SP6		08.25.2004	8.35	0.3885600	CU M/MI	1369.602	CU M
SP6		08.25.2004	8.4	0.3877200	CU M/MI	1371.343	CU M
SP6		08.25.2004	8.45	0.3903500	CU M/MI	1372.706	CU M
SP6		08.25.2004	8.5	0.3413300	CU M/MI	1374.031	CU M
SP6		08.25.2004	8.55	0.3898400	CU M/MI	1375.696	CU M
SP6		08.25.2004	9	0.3909700	CU M/MI	1377.437	CU M
SP6		08.25.2004	9.05	0.3909300	CU M/MI	1379.178	CU M
SP6		08.25.2004	9.1	0.4792600	CU M/MI	1380.919	CU M
SP6		08.25.2004	9.15	0.0046100	CU M/MI	1382.698	CU M
SP6		08.25.2004	9.2	0.4837100	CU M/MI	1384.667	CU M
SP6		08.25.2004	9.25	0.4844100	CU M/MI	1386.370	CU M
SP6		08.25.2004	9.3	0.4825500	CU M/MI	1388.035	CU M
SP6		08.25.2004	9.35	0.0030700	CU M/MI	1389.738	CU M
SP6		08.25.2004	9.4	0.0315900	CU M/MI	1391.745	CU M
SP6		08.25.2004	9.45	0.4858600	CU M/MI	1393.523	CU M
SP6		08.25.2004	9.5	0.4852300	CU M/MI	1395.227	CU M
SP6		08.25.2004	9.55	0.4731000	CU M/MI	1396.930	CU M
SP6		08.25.2004	10	0.0070200	CU M/MI	1398.822	CU M
SP6		08.25.2004	10.05	0.4839600	CU M/MI	1400.715	CU M
SP6		08.25.2004	10.1	0.4851600	CU M/MI	1402.418	CU M
SP6		08.25.2004	10.15	0.4830400	CU M/MI	1404.121	CU M
SP6		08.25.2004	10.2	0.0033700	CU M/MI	1405.863	CU M
SP6		08.25.2004	10.25	0.0421600	CU M/MI	1407.869	CU M
SP6		08.25.2004	10.3	0.4846700	CU M/MI	1409.648	CU M
SP6		08.25.2004	10.35	0.4853400	CU M/MI	1411.389	CU M
SP6		08.25.2004	10.4	0.4798900	CU M/MI	1413.130	CU M
SP6		08.25.2004	10.45	0.0034200	CU M/MI	1414.909	CU M
SP6		08.25.2004	10.5	0.0245300	CU M/MI	1416.915	CU M
SP6		08.25.2004	10.55	0.4847300	CU M/MI	1418.732	CU M
SP6		08.25.2004	11	0.4849900	CU M/MI	1420.473	CU M
SP6		08.25.2004	11.05	0.4823800	CU M/MI	1422.214	CU M
SP6		08.25.2004	11.1	0.4429600	CU M/MI	1423.993	CU M
SP6		08.25.2004	11.15	0.0175000	CU M/MI	1425.961	CU M
SP6		08.25.2004	11.2	0.4840100	CU M/MI	1427.816	CU M
SP6		08.25.2004	11.25	0.4847100	CU M/MI	1429.557	CU M
SP6		08.25.2004	11.3	0.4838100	CU M/MI	1431.298	CU M
SP6		08.25.2004	11.35	0.4639800	CU M/MI	1433.077	CU M
SP6		08.25.2004	11.4	0.0098400	CU M/MI	1434.969	CU M
SP6		08.25.2004	11.45	0.4834500	CU M/MI	1436.862	CU M
SP6		08.25.2004	11.5	0.4827700	CU M/MI	1438.603	CU M
SP6		08.25.2004	11.55	0.4845800	CU M/MI	1440.306	CU M
SP6		08.25.2004	12	0.4752800	CU M/MI	1442.047	CU M
SP6		08.25.2004	12.05	0.0058800	CU M/MI	1443.864	CU M
SP6		08.25.2004	12.1	0.0331600	CU M/MI	1445.832	CU M
SP6		08.25.2004	12.15	0.4844000	CU M/MI	1447.573	CU M
SP6		08.25.2004	12.2	0.4836700	CU M/MI	1449.314	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6		08.25.2004	12.25	0.4792800	CU M/MI	1451.018	CU M
SP6		08.25.2004	12.3	0.0043800	CU M/MI	1452.759	CU M
SP6		08.25.2004	12.35	0.0237500	CU M/MI	1454.727	CU M
SP6		08.25.2004	12.4	0.4808000	CU M/MI	1456.506	CU M
SP6		08.25.2004	12.45	0.4831400	CU M/MI	1458.247	CU M
SP6		08.25.2004	12.5	0.4799900	CU M/MI	1459.950	CU M
SP6		08.25.2004	12.55	0.4314000	CU M/MI	1461.653	CU M
SP6		08.25.2004	13	0.0178300	CU M/MI	1463.622	CU M
SP6		08.25.2004	13.05	0.4808800	CU M/MI	1465.438	CU M
SP6		08.25.2004	13.1	0.4802700	CU M/MI	1467.142	CU M
SP6		08.25.2004	13.15	0.4832900	CU M/MI	1468.845	CU M
SP6		08.25.2004	13.2	0.4656900	CU M/MI	1470.586	CU M
SP6		08.25.2004	13.25	0.0079100	CU M/MI	1472.441	CU M
SP6		08.25.2004	13.3	0.4809900	CU M/MI	1474.295	CU M
SP6		08.25.2004	13.35	0.4814900	CU M/MI	1475.999	CU M
SP6		08.25.2004	13.4	0.4822100	CU M/MI	1477.702	CU M
SP6		08.25.2004	13.45	0.4722800	CU M/MI	1479.405	CU M
SP6		08.25.2004	13.5	0.0062500	CU M/MI	1481.260	CU M
SP6		08.25.2004	13.55	0.4811800	CU M/MI	1483.152	CU M
SP6		08.25.2004	14	0.4807800	CU M/MI	1484.856	CU M
SP6		08.25.2004	14.05	0.4821400	CU M/MI	1486.597	CU M
SP6		08.25.2004	14.1	0.3898700	CU M/MI	1488.338	CU M
SP6		08.25.2004	14.15	0.3894800	CU M/MI	1490.117	CU M
SP6		08.25.2004	14.2	0.3899400	CU M/MI	1491.858	CU M
SP6		08.25.2004	14.25	0.3895000	CU M/MI	1493.599	CU M
SP6		08.25.2004	14.3	0.3887900	CU M/MI	1495.340	CU M
SP6		08.25.2004	14.35	0.3791900	CU M/MI	1497.081	CU M
SP6		08.25.2004	14.4	0.0171700	CU M/MI	1498.936	CU M
SP6		08.25.2004	14.45	0.3870400	CU M/MI	1500.753	CU M
SP6		08.25.2004	14.5	0.3867600	CU M/MI	1502.494	CU M
SP6		08.25.2004	14.55	0.3891400	CU M/MI	1504.235	CU M
SP6		08.25.2004	15	0.3883400	CU M/MI	1505.976	CU M
SP6		08.25.2004	15.05	0.3871100	CU M/MI	1507.717	CU M
SP6		08.25.2004	15.1	0.3889300	CU M/MI	1509.420	CU M
SP6		08.25.2004	15.15	0.3889900	CU M/MI	1511.199	CU M
SP6		08.25.2004	15.2	0.3885100	CU M/MI	1512.902	CU M
SP6		08.25.2004	15.25	0.3684600	CU M/MI	1514.643	CU M
SP6		08.25.2004	15.3	0.0264600	CU M/MI	1516.536	CU M
SP6		08.25.2004	15.35	0.3867500	CU M/MI	1518.315	CU M
SP6		08.25.2004	15.4	0.3880800	CU M/MI	1520.056	CU M
SP6		08.25.2004	16	0.3890200	CU M/MI	1527.096	CU M
SP6		08.25.2004	16.05	0.3880100	CU M/MI	1528.799	CU M
SP6		08.25.2004	16.1	0.3827900	CU M/MI	1530.578	CU M
SP6		08.25.2004	16.15	0.0114400	CU M/MI	1532.357	CU M
SP6		08.25.2004	16.2	0.3874600	CU M/MI	1534.250	CU M
SP6		08.25.2004	16.25	0.3883900	CU M/MI	1536.029	CU M
SP6		08.25.2004	16.3	0.3892600	CU M/MI	1537.770	CU M
SP6		08.25.2004	16.35	0.3882600	CU M/MI	1539.511	CU M
SP6		08.25.2004	16.4	0.3874200	CU M/MI	1541.290	CU M
SP6		08.25.2004	16.45	0.3882400	CU M/MI	1543.031	CU M
SP6		08.25.2004	16.5	0.3890900	CU M/MI	1544.772	CU M
SP6		08.25.2004	16.55	0.3887200	CU M/MI	1546.551	CU M
SP6		08.25.2004	17	0.3606800	CU M/MI	1548.292	CU M
SP6		08.25.2004	17.05	0.0679500	CU M/MI	1550.222	CU M
SP6		08.25.2004	17.1	0.3872200	CU M/MI	1552.001	CU M
SP6		08.25.2004	17.15	0.3883800	CU M/MI	1553.743	CU M
SP6		08.25.2004	17.2	0.3902400	CU M/MI	1555.484	CU M
SP6		08.25.2004	17.25	0.3870300	CU M/MI	1557.263	CU M
SP6		08.25.2004	17.3	0.3884000	CU M/MI	1559.004	CU M

Appendix B
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6		08.25.2004	17.35	0.3887000	CU M/MI	1560.745	CU M
SP6		08.25.2004	17.4	0.3890500	CU M/MI	1562.486	CU M
SP6		08.25.2004	17.45	0.3808700	CU M/MI	1564.227	CU M
SP6		08.25.2004	17.5	0.0164300	CU M/MI	1566.082	CU M
SP6		08.25.2004	17.55	0.3875400	CU M/MI	1567.936	CU M
SP6		08.25.2004	18	0.3884900	CU M/MI	1569.677	CU M
SP6		08.25.2004	18.05	0.3888500	CU M/MI	1571.418	CU M
SP6		08.25.2004	18.1	0.3878100	CU M/MI	1573.160	CU M
SP6		08.25.2004	18.15	0.3875400	CU M/MI	1574.901	CU M
SP6		08.25.2004	18.2	0.3877700	CU M/MI	1576.680	CU M
SP6		08.25.2004	18.25	0.3888500	CU M/MI	1578.421	CU M
SP6		08.25.2004	18.3	0.3860300	CU M/MI	1580.162	CU M
SP6		08.25.2004	18.35	0.0101200	CU M/MI	1581.903	CU M
SP6		08.25.2004	18.4	0.3878700	CU M/MI	1583.833	CU M
SP6		08.25.2004	18.45	0.3878700	CU M/MI	1585.574	CU M
SP6		08.25.2004	18.5	0.3896300	CU M/MI	1587.315	CU M
SP6		08.25.2004	18.55	0.3894600	CU M/MI	1589.057	CU M
SP6		08.25.2004	19	0.3866900	CU M/MI	1590.798	CU M
SP6		08.25.2004	19.05	0.3880000	CU M/MI	1592.539	CU M
SP6		08.25.2004	19.1	0.3889200	CU M/MI	1594.280	CU M
SP6		08.25.2004	19.15	0.3884700	CU M/MI	1596.021	CU M
SP6		08.25.2004	19.2	0.3285600	CU M/MI	1597.762	CU M
SP6		08.25.2004	19.25	0.3881600	CU M/MI	1599.692	CU M
SP6		08.25.2004	19.3	0.3858200	CU M/MI	1601.434	CU M
SP6		08.25.2004	19.35	0.3886300	CU M/MI	1603.137	CU M
SP6		08.25.2004	19.4	0.3866000	CU M/MI	1604.878	CU M
SP6		08.25.2004	19.45	0.3853200	CU M/MI	1606.619	CU M
SP6		08.25.2004	19.5	0.3868500	CU M/MI	1608.322	CU M
SP6		08.25.2004	19.55	0.3874600	CU M/MI	1610.063	CU M
SP6		08.25.2004	20	0.3862000	CU M/MI	1611.804	CU M
SP6		08.25.2004	20.05	0.0126700	CU M/MI	1613.583	CU M
SP6		08.25.2004	20.1	0.3853800	CU M/MI	1615.476	CU M
SP6		08.25.2004	20.15	0.3864400	CU M/MI	1617.217	CU M
SP6		08.25.2004	20.2	0.3894800	CU M/MI	1618.920	CU M
SP6		08.25.2004	20.25	0.3860700	CU M/MI	1620.661	CU M
SP6		08.25.2004	20.3	0.3834700	CU M/MI	1622.327	CU M
SP6		08.25.2004	20.35	0.3854500	CU M/MI	1623.954	CU M
SP6		08.25.2004	20.4	0.3831900	CU M/MI	1625.582	CU M
SP6		08.25.2004	20.45	0.0130900	CU M/MI	1627.399	CU M
SP6		08.25.2004	20.5	0.3838900	CU M/MI	1629.178	CU M
SP6		08.25.2004	20.55	0.3858800	CU M/MI	1630.843	CU M
SP6		08.25.2004	21	0.3844000	CU M/MI	1632.508	CU M
SP6		08.25.2004	21.05	0.3786100	CU M/MI	1634.174	CU M
SP6		08.25.2004	21.1	0.3778100	CU M/MI	1635.839	CU M
SP6		08.25.2004	21.15	0.3762500	CU M/MI	1637.505	CU M
SP6		08.25.2004	21.2	0.0124000	CU M/MI	1639.246	CU M
SP6		08.25.2004	21.25	0.3737900	CU M/MI	1641.062	CU M
SP6		08.25.2004	21.3	0.3767300	CU M/MI	1642.728	CU M
SP6		08.25.2004	21.35	0.3774900	CU M/MI	1644.393	CU M
SP6		08.25.2004	21.4	0.3772700	CU M/MI	1646.059	CU M
SP6		08.25.2004	21.45	0.3761700	CU M/MI	1647.800	CU M
SP6		08.25.2004	21.5	0.3774100	CU M/MI	1649.503	CU M
SP6		08.25.2004	21.55	0.3637600	CU M/MI	1651.206	CU M
SP6		08.25.2004	22	0.0504700	CU M/MI	1653.099	CU M
SP6		08.25.2004	22.05	0.3837100	CU M/MI	1654.840	CU M
SP6		08.25.2004	22.1	0.3831600	CU M/MI	1656.543	CU M
SP6		08.25.2004	22.15	0.3805000	CU M/MI	1658.246	CU M
SP6		08.25.2004	22.2	0.3794800	CU M/MI	1659.987	CU M
SP6		08.25.2004	22.25	0.3806000	CU M/MI	1661.691	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6		08.25.2004	22.3	0.3803900	CU M/MI	1663.394	CU M
SP6		08.25.2004	22.35	0.3546300	CU M/MI	1665.097	CU M
SP6		08.25.2004	22.4	0.3765000	CU M/MI	1666.990	CU M
SP6		08.25.2004	22.45	0.3758000	CU M/MI	1668.693	CU M
SP6		08.25.2004	22.5	0.3792600	CU M/MI	1670.396	CU M
SP6		08.25.2004	22.55	0.3747200	CU M/MI	1672.099	CU M
SP6		08.25.2004	23	0.3740300	CU M/MI	1673.803	CU M
SP6		08.25.2004	23.05	0.3808400	CU M/MI	1675.468	CU M
SP6		08.25.2004	23.1	0.3844000	CU M/MI	1677.209	CU M
SP6		08.25.2004	23.15	0.0102100	CU M/MI	1678.988	CU M
SP6		08.25.2004	23.2	0.3855700	CU M/MI	1680.843	CU M
SP6		08.25.2004	23.25	0.3842200	CU M/MI	1682.584	CU M
SP6		08.25.2004	23.3	0.3850900	CU M/MI	1684.287	CU M
SP6		08.25.2004	23.35	0.3799300	CU M/MI	1685.990	CU M
SP6		08.25.2004	23.4	0.3803700	CU M/MI	1687.694	CU M
SP6		08.25.2004	23.45	0.3809700	CU M/MI	1689.397	CU M
SP6		08.25.2004	23.5	0.3791000	CU M/MI	1691.100	CU M
SP6		08.25.2004	23.55	0.0139800	CU M/MI	1692.879	CU M
SP6		08.26.2004	0	0.3801800	CU M/MI	1694.696	CU M
SP6		08.26.2004	0.05	0.3803500	CU M/MI	1696.399	CU M
SP6		08.26.2004	0.1	0.3814000	CU M/MI	1698.102	CU M
SP6		08.26.2004	0.15	0.3792700	CU M/MI	1699.806	CU M
SP6		08.26.2004	0.2	0.3795800	CU M/MI	1701.471	CU M
SP6		08.26.2004	0.25	0.3812600	CU M/MI	1703.174	CU M
SP6		08.26.2004	0.3	0.3563300	CU M/MI	1704.878	CU M
SP6		08.26.2004	0.35	0.3787800	CU M/MI	1706.770	CU M
SP6		08.26.2004	0.4	0.3808800	CU M/MI	1708.435	CU M
SP6		08.26.2004	0.45	0.3809300	CU M/MI	1710.139	CU M
SP6		08.26.2004	0.5	0.3795700	CU M/MI	1711.842	CU M
SP6		08.26.2004	0.55	0.3799900	CU M/MI	1713.507	CU M
SP6		08.26.2004	1	0.3805000	CU M/MI	1715.211	CU M
SP6		08.26.2004	1.05	0.3756500	CU M/MI	1716.876	CU M
SP6		08.26.2004	1.1	0.0203000	CU M/MI	1718.693	CU M
SP6		08.26.2004	1.15	0.3792700	CU M/MI	1720.472	CU M
SP6		08.26.2004	1.2	0.3804600	CU M/MI	1722.175	CU M
SP6		08.26.2004	1.25	0.3794800	CU M/MI	1723.840	CU M
SP6		08.26.2004	1.3	0.3793000	CU M/MI	1725.582	CU M
SP6		08.26.2004	1.35	0.3805300	CU M/MI	1727.323	CU M
SP6		08.26.2004	1.4	0.3814200	CU M/MI	1729.064	CU M
SP6		08.26.2004	1.45	0.3784500	CU M/MI	1730.805	CU M
SP6		08.26.2004	1.5	0.0159700	CU M/MI	1732.584	CU M
SP6		08.26.2004	1.55	0.3794700	CU M/MI	1734.438	CU M
SP6		08.26.2004	2	0.3799000	CU M/MI	1736.180	CU M
SP6		08.26.2004	2.05	0.3810200	CU M/MI	1737.921	CU M
SP6		08.26.2004	2.1	0.3804100	CU M/MI	1739.662	CU M
SP6		08.26.2004	2.15	0.3799600	CU M/MI	1741.365	CU M
SP6		08.26.2004	2.2	0.3813600	CU M/MI	1743.106	CU M
SP6		08.26.2004	2.25	0.3813600	CU M/MI	1744.847	CU M
SP6		08.26.2004	2.3	0.3580900	CU M/MI	1746.588	CU M
SP6		08.26.2004	2.35	0.0705500	CU M/MI	1748.481	CU M
SP6		08.26.2004	2.4	0.3802900	CU M/MI	1750.184	CU M
SP6		08.26.2004	2.45	0.3815400	CU M/MI	1751.887	CU M
SP6		08.26.2004	2.5	0.3798800	CU M/MI	1753.591	CU M
SP6		08.26.2004	2.55	0.3778100	CU M/MI	1755.294	CU M
SP6		08.26.2004	3	0.3798500	CU M/MI	1756.997	CU M
SP6		08.26.2004	3.05	0.3798800	CU M/MI	1758.700	CU M
SP6		08.26.2004	3.1	0.3672100	CU M/MI	1760.404	CU M
SP6		08.26.2004	3.15	0.0347800	CU M/MI	1762.258	CU M
SP6		08.26.2004	3.2	0.3779400	CU M/MI	1763.999	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6		08.26.2004	3.25	0.3796500	CU M/MI	1765.703	CU M
SP6		08.26.2004	3.3	0.3794300	CU M/MI	1767.406	CU M
SP6		08.26.2004	3.35	0.3776300	CU M/MI	1769.109	CU M
SP6		08.26.2004	3.4	0.3786900	CU M/MI	1770.812	CU M
SP6		08.26.2004	3.45	0.3802800	CU M/MI	1772.516	CU M
SP6		08.26.2004	3.5	0.3766800	CU M/MI	1774.219	CU M
SP6		08.26.2004	3.55	0.0127200	CU M/MI	1775.960	CU M
SP6		08.26.2004	4	0.3773100	CU M/MI	1777.777	CU M
SP6		08.26.2004	4.05	0.3783700	CU M/MI	1779.518	CU M
SP6		08.26.2004	4.1	0.3796700	CU M/MI	1781.183	CU M
SP6		08.26.2004	4.15	0.3767900	CU M/MI	1782.886	CU M
SP6		08.26.2004	4.2	0.0022700	CU M/MI	1783.530	CU M
SP6		08.26.2004	4.25	0.0019200	CU M/MI	1783.530	CU M
SP6		08.26.2004	4.3	0.0020300	CU M/MI	1783.568	CU M
SP6		08.26.2004	4.35	0.0023100	CU M/MI	1783.568	CU M
SP6		08.26.2004	4.4	0.0017700	CU M/MI	1783.568	CU M
SP6		08.26.2004	4.45	0.0018500	CU M/MI	1783.568	CU M
SP6		08.26.2004	4.5	0.0016900	CU M/MI	1783.606	CU M
SP6		08.26.2004	4.55	0.0019200	CU M/MI	1783.606	CU M
SP6		08.26.2004	5	0.0017900	CU M/MI	1783.606	CU M
SP6		08.26.2004	5.05	0.0019300	CU M/MI	1783.606	CU M
SP6		08.26.2004	5.1	0.0020400	CU M/MI	1783.643	CU M
SP6		08.26.2004	5.15	0.0018300	CU M/MI	1783.643	CU M
SP6		08.26.2004	5.2	0.0019400	CU M/MI	1783.643	CU M
SP6		08.26.2004	5.25	0.0016800	CU M/MI	1783.643	CU M
SP6		08.26.2004	5.3	0.0015100	CU M/MI	1783.681	CU M
SP6		08.26.2004	5.35	0.0015600	CU M/MI	1783.681	CU M
SP6		08.26.2004	5.4	0.0016600	CU M/MI	1783.681	CU M
SP6		08.26.2004	5.45	0.0015100	CU M/MI	1783.681	CU M
SP6		08.26.2004	5.5	0.0014500	CU M/MI	1783.681	CU M
SP6		08.26.2004	5.55	0.0015000	CU M/MI	1783.681	CU M
SP6		08.26.2004	6	0.0012100	CU M/MI	1783.719	CU M
SP6		08.26.2004	6.05	0.0014300	CU M/MI	1783.719	CU M
SP6		08.26.2004	6.1	0.0010400	CU M/MI	1783.719	CU M
SP6		08.26.2004	6.15	0.0011700	CU M/MI	1783.719	CU M
SP6		08.26.2004	6.2	0.0011600	CU M/MI	1783.719	CU M
SP6		08.26.2004	6.25	0.0009000	CU M/MI	1783.719	CU M
SP6		08.26.2004	6.3	0.0011900	CU M/MI	1783.757	CU M
SP6		08.26.2004	6.35	0.0009300	CU M/MI	1783.757	CU M
SP6		08.26.2004	6.4	0.0008100	CU M/MI	1783.757	CU M
SP6		08.26.2004	6.45	0.0010300	CU M/MI	1783.757	CU M
SP6		08.26.2004	6.5	0.0006400	CU M/MI	1783.757	CU M
SP6		08.26.2004	6.55	0.0006400	CU M/MI	1783.757	CU M
SP6		08.26.2004	7	0.0006300	CU M/MI	1783.757	CU M
SP6		08.26.2004	7.05	0.0004800	CU M/MI	1783.757	CU M
SP6		08.26.2004	7.1	0.0008400	CU M/MI	1783.757	CU M
SP6		08.26.2004	7.15	0.0004500	CU M/MI	1783.757	CU M
SP6		08.26.2004	7.2	0.0003300	CU M/MI	1783.757	CU M
SP6		08.26.2004	7.25	0.0004600	CU M/MI	1783.757	CU M
SP6		08.26.2004	7.3	0.0003900	CU M/MI	1783.795	CU M
SP6		08.26.2004	7.35	0.0003500	CU M/MI	1783.795	CU M
SP6		08.26.2004	7.4	0.0006500	CU M/MI	1783.795	CU M
SP6		08.26.2004	7.45	0.0006400	CU M/MI	1783.795	CU M
SP6		08.26.2004	7.5	0.0005300	CU M/MI	1783.795	CU M
SP6		08.26.2004	7.55	0.0006700	CU M/MI	1783.795	CU M
SP6		08.26.2004	8	0.0005400	CU M/MI	1783.795	CU M
SP6		08.26.2004	8.05	0.0006400	CU M/MI	1783.795	CU M
SP6		08.26.2004	8.1	0.0005800	CU M/MI	1783.795	CU M
SP6		08.26.2004	8.15	0.0005900	CU M/MI	1783.795	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6		08.26.2004	8.2	0.0004700	CU M/MI	1783.795	CU M
SP6		08.26.2004	8.25	0.0002300	CU M/MI	1783.795	CU M
SP6		08.26.2004	8.3	0.0004100	CU M/MI	1783.795	CU M
SP6		08.26.2004	8.35	0.0006300	CU M/MI	1783.795	CU M
SP6		08.26.2004	8.4	0.0006400	CU M/MI	1783.833	CU M
SP6		08.26.2004	8.45	0.0002900	CU M/MI	1783.833	CU M
SP6		08.26.2004	8.5	0.0005000	CU M/MI	1783.833	CU M
SP6		08.26.2004	8.55	0.0006000	CU M/MI	1783.833	CU M
SP6		08.26.2004	9	0.0001600	CU M/MI	1783.833	CU M
SP6		08.26.2004	9.05	0.0003400	CU M/MI	1783.833	CU M
SP6		08.26.2004	9.1	0.0004400	CU M/MI	1783.833	CU M
SP6		08.26.2004	9.15	0.0003000	CU M/MI	1783.833	CU M
SP6		08.26.2004	9.2	0.0000300	CU M/MI	1783.833	CU M
SP6		08.26.2004	9.25	0.0001900	CU M/MI	1783.833	CU M
SP6		08.26.2004	9.3	0.0001200	CU M/MI	1783.833	CU M
SP6		08.26.2004	9.35	0.0000100	CU M/MI	1783.833	CU M
SP6		08.26.2004	9.4	0.0003000	CU M/MI	1783.833	CU M
SP6		08.26.2004	9.45	0.0004500	CU M/MI	1783.833	CU M
SP6		08.26.2004	9.5	0.0005300	CU M/MI	1783.833	CU M
SP6		08.26.2004	9.55	0.0002000	CU M/MI	1783.833	CU M
SP6		08.26.2004	10	0.0001300	CU M/MI	1783.833	CU M
SP6		08.26.2004	10.05	0.0002800	CU M/MI	1783.833	CU M
SP6		08.26.2004	10.1	0.0001600	CU M/MI	1783.833	CU M
SP6		08.26.2004	10.15	0.0000500	CU M/MI	1783.833	CU M
SP6		08.26.2004	10.3	0.0000700	CU M/MI	1783.833	CU M
SP6		08.26.2004	10.35	0.0000000	CU M/MI	1783.833	CU M
SP6		08.26.2004	10.4	0.0002600	CU M/MI	1783.833	CU M
SP6		08.26.2004	10.45	0.0000300	CU M/MI	1783.833	CU M
SP6		08.26.2004	10.5	0.0001600	CU M/MI	1783.833	CU M
SP6		08.26.2004	10.55	0.0001000	CU M/MI	1783.833	CU M
SP6		08.26.2004	11	0.0001900	CU M/MI	1783.833	CU M
SP6		08.26.2004	11.05	0.0001600	CU M/MI	1783.833	CU M
SP6		08.26.2004	11.1	0.0003000	CU M/MI	1783.833	CU M
SP6		08.26.2004	11.15	0.0000500	CU M/MI	1783.833	CU M
SP6		08.26.2004	11.2	0.0001000	CU M/MI	1783.833	CU M
SP6		08.26.2004	11.25	0.0001600	CU M/MI	1783.833	CU M
SP6		08.26.2004	11.3	0.0001700	CU M/MI	1783.871	CU M
SP6		08.26.2004	11.35	0.0003300	CU M/MI	1783.871	CU M
SP6		08.26.2004	11.4	0.0002700	CU M/MI	1783.871	CU M
SP6		08.26.2004	11.45	0.0001500	CU M/MI	1783.871	CU M
SP6		08.26.2004	11.5	0.0002000	CU M/MI	1783.871	CU M
SP6		08.26.2004	11.55	0.0000100	CU M/MI	1783.871	CU M
SP6		08.26.2004	12	-0.0000200	CU M/MI	1783.871	CU M
SP6		08.26.2004	12.05	-0.0000800	CU M/MI	1783.871	CU M
SP6		08.26.2004	12.1	0.0000500	CU M/MI	1783.871	CU M
SP6		08.26.2004	12.15	0.0000000	CU M/MI	1783.871	CU M
SP6		08.26.2004	12.2	0.0001100	CU M/MI	1783.871	CU M
SP6		08.26.2004	12.25	0.0001500	CU M/MI	1783.871	CU M
SP6		08.26.2004	12.3	0.0002100	CU M/MI	1783.871	CU M
SP6		08.26.2004	12.35	-0.0000300	CU M/MI	1783.871	CU M
SP6		08.26.2004	12.4	0.0000900	CU M/MI	1783.871	CU M
SP6		08.26.2004	12.45	0.0000800	CU M/MI	1783.871	CU M
SP6		08.26.2004	12.5	0.0001200	CU M/MI	1783.871	CU M
SP6		08.26.2004	12.55	0.0001400	CU M/MI	1783.871	CU M
SP6		08.26.2004	13	0.0001800	CU M/MI	1783.871	CU M
SP6		08.26.2004	13.05	0.0002000	CU M/MI	1783.871	CU M
SP6		08.26.2004	13.1	0.0002400	CU M/MI	1783.871	CU M
SP6		08.26.2004	13.15	0.0003900	CU M/MI	1783.871	CU M
SP6		08.26.2004	13.2	0.0002200	CU M/MI	1783.871	CU M

Appendix B
Raw Flow from Effluent (SP-6)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6		08.26.2004	13.25	0.0004100	CU M/MI	1783.871	CU M
SP6		08.26.2004	13.3	0.0003000	CU M/MI	1783.871	CU M
SP6		08.26.2004	13.35	0.0004200	CU M/MI	1783.871	CU M
SP6		08.26.2004	13.4	0.0002400	CU M/MI	1783.871	CU M
SP6		08.26.2004	13.45	0.0003800	CU M/MI	1783.871	CU M
SP6		08.26.2004	13.5	0.0002300	CU M/MI	1783.871	CU M
SP6		08.26.2004	13.55	0.0001800	CU M/MI	1783.871	CU M
SP6		08.26.2004	14	0.0003600	CU M/MI	1783.871	CU M
SP6		08.26.2004	14.05	0.0004500	CU M/MI	1783.871	CU M
SP6		08.26.2004	14.1	0.0003700	CU M/MI	1783.871	CU M
SP6		08.26.2004	14.15	0.0004900	CU M/MI	1783.871	CU M
SP6		08.26.2004	14.2	0.0006100	CU M/MI	1783.871	CU M
SP6		08.26.2004	14.25	0.0003200	CU M/MI	1783.871	CU M
SP6		08.26.2004	14.3	0.0003100	CU M/MI	1783.871	CU M
SP6		08.26.2004	14.35	0.0001800	CU M/MI	1783.908	CU M
SP6		08.26.2004	14.4	0.0004900	CU M/MI	1783.908	CU M
SP6		08.26.2004	14.45	0.0002100	CU M/MI	1783.908	CU M
SP6		08.26.2004	14.5	0.0004000	CU M/MI	1783.908	CU M
SP6		08.26.2004	14.55	0.0004300	CU M/MI	1783.908	CU M
SP6		08.26.2004	15	0.0003900	CU M/MI	1783.908	CU M
SP6		08.26.2004	15.05	0.0004800	CU M/MI	1783.908	CU M
SP6		08.26.2004	15.1	0.0000700	CU M/MI	1783.908	CU M
SP6		08.26.2004	15.15	0.0004400	CU M/MI	1783.908	CU M
SP6		08.26.2004	15.2	0.0005100	CU M/MI	1783.908	CU M
SP6		08.26.2004	15.25	0.0005000	CU M/MI	1783.908	CU M
SP6		08.26.2004	15.3	0.0005500	CU M/MI	1783.908	CU M
SP6		08.26.2004	15.35	0.0003800	CU M/MI	1783.908	CU M
SP6		08.26.2004	15.4	0.0004500	CU M/MI	1783.908	CU M
SP6		08.26.2004	15.45	0.0005300	CU M/MI	1783.908	CU M
SP6		08.26.2004	15.5	0.0005600	CU M/MI	1783.908	CU M
SP6		08.26.2004	15.55	0.0005300	CU M/MI	1783.908	CU M
SP6		08.26.2004	16	0.0004000	CU M/MI	1783.946	CU M
SP6		08.26.2004	16.05	0.3722000	CU M/MI	1784.968	CU M
SP6		08.26.2004	16.1	0.3735100	CU M/MI	1786.823	CU M
SP6		08.26.2004	16.15	0.3780300	CU M/MI	1788.715	CU M
SP6		08.26.2004	16.2	0.3818600	CU M/MI	1790.608	CU M
SP6		08.26.2004	16.25	0.3883300	CU M/MI	1792.425	CU M
SP6		08.26.2004	16.3	0.3861100	CU M/MI	1794.166	CU M
SP6		08.26.2004	16.35	0.3808300	CU M/MI	1795.907	CU M
SP6		08.26.2004	16.4	0.3303600	CU M/MI	1797.686	CU M
SP6		08.26.2004	16.45	0.0024700	CU M/MI	1798.594	CU M
SP6		08.26.2004	16.5	0.0026900	CU M/MI	1798.632	CU M
SP6		08.26.2004	16.55	0.0023000	CU M/MI	1798.632	CU M
SP6		08.26.2004	17	0.0023400	CU M/MI	1798.632	CU M
SP6		08.26.2004	17.05	0.0020900	CU M/MI	1798.632	CU M
SP6		08.26.2004	17.1	0.0017100	CU M/MI	1798.670	CU M
SP6		08.26.2004	17.15	0.4725700	CU M/MI	1800.335	CU M
SP6		08.26.2004	17.2	0.4724300	CU M/MI	1802.076	CU M
SP6		08.26.2004	17.25	0.0043800	CU M/MI	1803.855	CU M
SP6		08.26.2004	17.3	0.4727600	CU M/MI	1805.824	CU M
SP6		08.26.2004	17.35	0.4722400	CU M/MI	1807.527	CU M
SP6		08.26.2004	17.4	0.4729800	CU M/MI	1809.230	CU M
SP6		08.26.2004	17.45	0.4507700	CU M/MI	1810.895	CU M
SP6		08.26.2004	17.5	0.0189100	CU M/MI	1812.826	CU M
SP6		08.26.2004	17.55	0.4743600	CU M/MI	1814.567	CU M
SP6		08.26.2004	18	0.4754900	CU M/MI	1816.270	CU M
SP6		08.26.2004	18.05	0.4856200	CU M/MI	1817.898	CU M
SP6		08.26.2004	18.1	-0.0061200	CU M/MI	1819.790	CU M
SP6		08.26.2004	18.15	0.4746800	CU M/MI	1821.569	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6		08.26.2004	18.2	0.4765400	CU M/MI	1823.235	CU M
SP6		08.26.2004	18.25	0.4610800	CU M/MI	1824.938	CU M
SP6		08.26.2004	18.3	0.0170500	CU M/MI	1826.868	CU M
SP6		08.26.2004	18.35	0.4763100	CU M/MI	1828.647	CU M
SP6		08.26.2004	18.4	0.4756300	CU M/MI	1830.312	CU M
SP6		08.26.2004	18.45	0.4644000	CU M/MI	1831.978	CU M
SP6		08.26.2004	18.5	0.0127600	CU M/MI	1833.870	CU M
SP6		08.26.2004	18.55	0.4744200	CU M/MI	1835.687	CU M
SP6		08.26.2004	19	0.4769300	CU M/MI	1837.353	CU M
SP6		08.26.2004	19.05	0.4587600	CU M/MI	1839.056	CU M
SP6		08.26.2004	19.1	0.0106800	CU M/MI	1840.948	CU M
SP6		08.26.2004	19.15	0.4768100	CU M/MI	1842.727	CU M
SP6		08.26.2004	19.2	0.0022800	CU M/MI	1843.711	CU M
SP6		08.26.2004	19.25	0.0023200	CU M/MI	1843.711	CU M
SP6		08.26.2004	19.3	0.0024600	CU M/MI	1843.711	CU M
SP6		08.26.2004	19.35	0.0020200	CU M/MI	1843.749	CU M
SP6		08.26.2004	19.4	0.0020600	CU M/MI	1843.749	CU M
SP6		08.26.2004	19.45	0.0019800	CU M/MI	1843.749	CU M
SP6		08.26.2004	19.5	0.0019200	CU M/MI	1843.749	CU M
SP6		08.26.2004	19.55	0.0018500	CU M/MI	1843.787	CU M
SP6		08.26.2004	20	0.0019300	CU M/MI	1843.787	CU M
SP6		08.26.2004	20.05	0.0344200	CU M/MI	1843.787	CU M
SP6		08.26.2004	20.1	0.0017300	CU M/MI	1843.863	CU M
SP6		08.26.2004	20.15	0.0020900	CU M/MI	1843.863	CU M
SP6		08.26.2004	20.2	0.0021600	CU M/MI	1843.863	CU M
SP6		08.26.2004	20.25	0.0020300	CU M/MI	1843.863	CU M
SP6		08.26.2004	20.3	0.0016500	CU M/MI	1843.863	CU M
SP6		08.26.2004	20.35	0.0015400	CU M/MI	1843.901	CU M
SP6		08.26.2004	20.4	0.0016800	CU M/MI	1843.901	CU M
SP6		08.26.2004	20.45	0.0017800	CU M/MI	1843.901	CU M
SP6		08.26.2004	20.5	0.0017000	CU M/MI	1843.901	CU M
SP6		08.26.2004	20.55	0.0018300	CU M/MI	1843.901	CU M
SP6		08.26.2004	21	0.0015400	CU M/MI	1843.938	CU M
SP6		08.26.2004	21.05	0.0013200	CU M/MI	1843.938	CU M
SP6		08.26.2004	21.1	0.0012700	CU M/MI	1843.938	CU M
SP6		08.26.2004	21.15	0.0010200	CU M/MI	1843.938	CU M
SP6		08.26.2004	21.2	0.0009600	CU M/MI	1843.938	CU M
SP6		08.26.2004	21.25	0.0011700	CU M/MI	1843.938	CU M
SP6		08.26.2004	21.3	0.0006800	CU M/MI	1843.976	CU M
SP6		08.26.2004	21.35	0.0012100	CU M/MI	1843.976	CU M
SP6		08.26.2004	21.4	0.0003900	CU M/MI	1843.976	CU M
SP6		08.26.2004	21.45	0.0011300	CU M/MI	1843.976	CU M
SP6		08.26.2004	21.5	0.0008300	CU M/MI	1843.976	CU M
SP6		08.26.2004	21.55	0.0008100	CU M/MI	1843.976	CU M
SP6		08.26.2004	22	0.0000000	CU M/MI	1844.014	CU M
SP6		08.26.2004	22.05	0.0017100	CU M/MI	1844.809	CU M
SP6		08.26.2004	22.1	0.0020800	CU M/MI	1845.680	CU M
SP6		08.26.2004	22.15	0.0000000	CU M/MI	1846.172	CU M
SP6		08.26.2004	22.2	0.0027300	CU M/MI	1846.323	CU M
SP6		08.26.2004	22.25	0.0021000	CU M/MI	1846.323	CU M
SP6		08.26.2004	22.3	0.0022700	CU M/MI	1846.361	CU M
SP6		08.26.2004	22.35	0.3728900	CU M/MI	1846.815	CU M
SP6		08.26.2004	22.4	0.3738400	CU M/MI	1848.708	CU M
SP6		08.26.2004	22.45	0.3712600	CU M/MI	1850.335	CU M
SP6		08.26.2004	22.5	0.3721900	CU M/MI	1851.963	CU M
SP6		08.26.2004	22.55	0.3429200	CU M/MI	1853.590	CU M
SP6		08.26.2004	23	0.3712200	CU M/MI	1855.331	CU M
SP6		08.26.2004	23.05	0.3706800	CU M/MI	1856.997	CU M
SP6		08.26.2004	23.1	0.3716900	CU M/MI	1858.624	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6		08.26.2004	23.15	0.3684900	CU M/MI	1860.252	CU M
SP6		08.26.2004	23.2	0.3329700	CU M/MI	1861.917	CU M
SP6		08.26.2004	23.25	0.3684200	CU M/MI	1863.658	CU M
SP6		08.26.2004	23.3	0.3685800	CU M/MI	1865.324	CU M
SP6		08.26.2004	23.35	0.3685500	CU M/MI	1866.951	CU M
SP6		08.26.2004	23.4	0.3695000	CU M/MI	1868.617	CU M
SP6		08.26.2004	23.45	0.3697500	CU M/MI	1870.282	CU M
SP6		08.26.2004	23.5	0.0291700	CU M/MI	1871.985	CU M
SP6		08.26.2004	23.55	0.3711400	CU M/MI	1873.726	CU M
SP6		08.27.2004	0	0.3710900	CU M/MI	1875.392	CU M
SP6		08.27.2004	0.05	0.3692500	CU M/MI	1877.019	CU M
SP6		08.27.2004	0.1	0.3716600	CU M/MI	1878.685	CU M
SP6		08.27.2004	0.15	0.3649800	CU M/MI	1880.350	CU M
SP6		08.27.2004	0.2	0.3723800	CU M/MI	1882.091	CU M
SP6		08.27.2004	0.25	0.3735000	CU M/MI	1883.757	CU M
SP6		08.27.2004	0.3	0.3745500	CU M/MI	1885.460	CU M
SP6		08.27.2004	0.35	0.3746800	CU M/MI	1887.125	CU M
SP6		08.27.2004	0.4	0.3677400	CU M/MI	1888.829	CU M
SP6		08.27.2004	0.45	0.0234100	CU M/MI	1890.532	CU M
SP6		08.27.2004	0.5	0.3757200	CU M/MI	1892.273	CU M
SP6		08.27.2004	0.55	0.3767400	CU M/MI	1893.976	CU M
SP6		08.27.2004	1	0.3758000	CU M/MI	1895.679	CU M
SP6		08.27.2004	1.05	0.3750400	CU M/MI	1897.345	CU M
SP6		08.27.2004	1.1	0.3645100	CU M/MI	1899.048	CU M
SP6		08.27.2004	1.15	0.3655700	CU M/MI	1900.827	CU M
SP6		08.27.2004	1.2	0.3774400	CU M/MI	1902.530	CU M
SP6		08.27.2004	1.25	0.3765900	CU M/MI	1904.234	CU M
SP6		08.27.2004	1.3	0.3767400	CU M/MI	1905.937	CU M
SP6		08.27.2004	1.35	0.3657000	CU M/MI	1907.602	CU M
SP6		08.27.2004	1.4	0.3749100	CU M/MI	1909.381	CU M
SP6		08.27.2004	1.45	0.3764800	CU M/MI	1911.084	CU M
SP6		08.27.2004	1.5	0.3783700	CU M/MI	1912.788	CU M
SP6		08.27.2004	1.55	0.3760900	CU M/MI	1914.491	CU M
SP6		08.27.2004	2	0.3701100	CU M/MI	1916.194	CU M
SP6		08.27.2004	2.05	0.0776900	CU M/MI	1917.973	CU M
SP6		08.27.2004	2.1	0.3771400	CU M/MI	1919.714	CU M
SP6		08.27.2004	2.15	0.3759900	CU M/MI	1921.417	CU M
SP6		08.27.2004	2.2	0.3762300	CU M/MI	1923.121	CU M
SP6		08.27.2004	2.25	0.3699100	CU M/MI	1924.824	CU M
SP6		08.27.2004	2.3	0.0459900	CU M/MI	1926.527	CU M
SP6		08.27.2004	2.35	0.3692100	CU M/MI	1928.344	CU M
SP6		08.27.2004	2.4	0.3713300	CU M/MI	1930.047	CU M
SP6		08.27.2004	2.45	0.3690900	CU M/MI	1931.750	CU M
SP6		08.27.2004	2.5	0.3674800	CU M/MI	1933.454	CU M
SP6		08.27.2004	2.55	0.0000000	CU M/MI	1935.195	CU M
SP6		08.27.2004	3	0.3675300	CU M/MI	1936.936	CU M
SP6		08.27.2004	3.05	0.3677400	CU M/MI	1938.677	CU M
SP6		08.27.2004	3.1	0.3685600	CU M/MI	1940.380	CU M
SP6		08.27.2004	3.15	0.3725000	CU M/MI	1942.121	CU M
SP6		08.27.2004	3.2	0.0747700	CU M/MI	1943.862	CU M
SP6		08.27.2004	3.25	0.3661900	CU M/MI	1945.604	CU M
SP6		08.27.2004	3.3	0.3698100	CU M/MI	1947.269	CU M
SP6		08.27.2004	3.35	0.3674800	CU M/MI	1948.972	CU M
SP6		08.27.2004	3.4	0.3430700	CU M/MI	1950.600	CU M
SP6		08.27.2004	3.45	0.3671500	CU M/MI	1952.379	CU M
SP6		08.27.2004	3.5	0.3700400	CU M/MI	1954.006	CU M
SP6		08.27.2004	3.55	0.3713500	CU M/MI	1955.634	CU M
SP6		08.27.2004	4	0.3641600	CU M/MI	1957.299	CU M
SP6		08.27.2004	4.05	0.0765100	CU M/MI	1959.002	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6		08.27.2004	4.1	0.3715900	CU M/MI	1960.668	CU M
SP6		08.27.2004	4.15	0.3723500	CU M/MI	1962.333	CU M
SP6		08.27.2004	4.2	0.0213200	CU M/MI	1963.696	CU M
SP6		08.27.2004	4.25	0.3747200	CU M/MI	1964.037	CU M
SP6		08.27.2004	4.3	0.3727200	CU M/MI	1965.891	CU M
SP6		08.27.2004	4.35	0.3701200	CU M/MI	1967.746	CU M
SP6		08.27.2004	4.4	0.3683300	CU M/MI	1969.600	CU M
SP6		08.27.2004	4.45	0.3696800	CU M/MI	1971.455	CU M
SP6		08.27.2004	4.5	0.3691600	CU M/MI	1973.310	CU M
SP6		08.27.2004	4.55	0.3698000	CU M/MI	1975.164	CU M
SP6		08.27.2004	5	0.3689500	CU M/MI	1976.981	CU M
SP6		08.27.2004	5.05	0.3661800	CU M/MI	1978.836	CU M
SP6		08.27.2004	5.1	0.3682600	CU M/MI	1980.691	CU M
SP6		08.27.2004	5.15	0.3686600	CU M/MI	1982.507	CU M
SP6		08.27.2004	5.2	0.3709800	CU M/MI	1984.362	CU M
SP6		08.27.2004	5.25	0.3664000	CU M/MI	1986.217	CU M
SP6		08.27.2004	5.3	0.3641800	CU M/MI	1988.033	CU M
SP6		08.27.2004	5.35	0.3706200	CU M/MI	1988.715	CU M
SP6		08.27.2004	5.4	0.3709300	CU M/MI	1990.569	CU M
SP6		08.27.2004	5.45	0.3679000	CU M/MI	1992.424	CU M
SP6		08.27.2004	5.5	0.3683900	CU M/MI	1994.279	CU M
SP6		08.27.2004	5.55	0.3693800	CU M/MI	1996.095	CU M
SP6		08.27.2004	6	0.3721000	CU M/MI	1997.950	CU M
SP6		08.27.2004	6.05	0.3673800	CU M/MI	1999.805	CU M
SP6		08.27.2004	6.1	0.3648500	CU M/MI	2001.622	CU M
SP6		08.27.2004	6.15	0.0016400	CU M/MI	2002.719	CU M
SP6		08.27.2004	6.2	0.3731200	CU M/MI	2004.233	CU M
SP6		08.27.2004	6.25	0.3709200	CU M/MI	2006.088	CU M
SP6		08.27.2004	6.3	0.3732100	CU M/MI	2007.943	CU M
SP6		08.27.2004	6.35	0.3721800	CU M/MI	2009.797	CU M
SP6		08.27.2004	6.4	0.3705900	CU M/MI	2011.652	CU M
SP6		08.27.2004	6.45	0.3691600	CU M/MI	2013.506	CU M
SP6		08.27.2004	6.5	0.3689000	CU M/MI	2015.323	CU M
SP6		08.27.2004	6.55	0.3672100	CU M/MI	2017.178	CU M
SP6		08.27.2004	7	0.3725700	CU M/MI	2017.897	CU M
SP6		08.27.2004	7.05	0.3340900	CU M/MI	2019.676	CU M
SP6		08.27.2004	7.1	0.3665600	CU M/MI	2021.531	CU M
SP6		08.27.2004	7.15	0.3679900	CU M/MI	2023.158	CU M
SP6		08.27.2004	7.2	0.3712600	CU M/MI	2025.013	CU M
SP6		08.27.2004	7.25	0.3756200	CU M/MI	2026.868	CU M
SP6		08.27.2004	7.3	0.3735500	CU M/MI	2028.722	CU M
SP6		08.27.2004	7.35	0.3688200	CU M/MI	2030.425	CU M
SP6		08.27.2004	7.4	0.3733700	CU M/MI	2032.167	CU M
SP6		08.27.2004	7.45	0.3731800	CU M/MI	2033.945	CU M
SP6		08.27.2004	7.5	0.3742000	CU M/MI	2035.611	CU M
SP6		08.27.2004	7.55	0.3691800	CU M/MI	2037.352	CU M
SP6		08.27.2004	8	0.3738200	CU M/MI	2039.055	CU M
SP6		08.27.2004	8.05	0.3770800	CU M/MI	2040.758	CU M
SP6		08.27.2004	8.1	0.3768100	CU M/MI	2042.462	CU M
SP6		08.27.2004	8.15	0.0129800	CU M/MI	2044.165	CU M
SP6		08.27.2004	8.2	0.3770100	CU M/MI	2046.057	CU M
SP6		08.27.2004	8.25	0.3781600	CU M/MI	2047.761	CU M
SP6		08.27.2004	8.3	0.3809600	CU M/MI	2049.464	CU M
SP6		08.27.2004	8.35	0.3755600	CU M/MI	2051.092	CU M
SP6		08.27.2004	8.4	0.3786100	CU M/MI	2052.795	CU M
SP6		08.27.2004	8.45	0.3799700	CU M/MI	2054.460	CU M
SP6		08.27.2004	8.5	0.3749800	CU M/MI	2056.163	CU M
SP6		08.27.2004	8.55	0.0216800	CU M/MI	2057.942	CU M
SP6		08.27.2004	9	0.3786600	CU M/MI	2059.721	CU M

Appendix B
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6		08.27.2004	9.05	0.3813600	CU M/MI	2061.387	CU M
SP6		08.27.2004	9.1	0.3801100	CU M/MI	2063.090	CU M
SP6		08.27.2004	9.15	0.3908000	CU M/MI	2064.831	CU M
SP6		08.27.2004	9.2	0.3834800	CU M/MI	2066.496	CU M
SP6		08.27.2004	9.25	0.3861600	CU M/MI	2068.200	CU M
SP6		08.27.2004	9.3	0.3226600	CU M/MI	2069.865	CU M
SP6		08.27.2004	9.35	0.3838400	CU M/MI	2071.795	CU M
SP6		08.27.2004	9.4	0.3825800	CU M/MI	2073.499	CU M
SP6		08.27.2004	9.45	0.3848800	CU M/MI	2075.164	CU M
SP6		08.27.2004	9.5	0.3827200	CU M/MI	2076.867	CU M
SP6		08.27.2004	9.55	0.3849200	CU M/MI	2078.571	CU M
SP6		08.27.2004	10	0.3840500	CU M/MI	2080.274	CU M
SP6		08.27.2004	10.05	0.3824300	CU M/MI	2081.939	CU M
SP6		08.27.2004	10.1	0.0160100	CU M/MI	2083.718	CU M
SP6		08.27.2004	10.15	0.3864000	CU M/MI	2085.573	CU M
SP6		08.27.2004	10.2	0.3855100	CU M/MI	2087.276	CU M
SP6		08.27.2004	10.25	0.3837100	CU M/MI	2088.979	CU M
SP6		08.27.2004	10.3	0.3856800	CU M/MI	2090.645	CU M
SP6		08.27.2004	10.35	0.3804600	CU M/MI	2092.348	CU M
SP6		08.27.2004	10.4	0.3830400	CU M/MI	2094.051	CU M
SP6		08.27.2004	10.45	0.3563700	CU M/MI	2095.755	CU M
SP6		08.27.2004	10.5	0.3787600	CU M/MI	2097.647	CU M
SP6		08.27.2004	10.55	0.3787300	CU M/MI	2099.350	CU M
SP6		08.27.2004	11	0.3830900	CU M/MI	2101.016	CU M
SP6		08.27.2004	11.05	0.3832000	CU M/MI	2102.757	CU M
SP6		08.27.2004	11.1	0.3842600	CU M/MI	2104.422	CU M
SP6		08.27.2004	11.15	0.3838500	CU M/MI	2106.125	CU M
SP6		08.27.2004	11.2	0.3813300	CU M/MI	2107.829	CU M
SP6		08.27.2004	11.25	0.0121300	CU M/MI	2109.532	CU M
SP6		08.27.2004	11.3	0.3832000	CU M/MI	2111.424	CU M
SP6		08.27.2004	11.35	0.3807300	CU M/MI	2113.128	CU M
SP6		08.27.2004	11.4	0.3810200	CU M/MI	2114.793	CU M
SP6		08.27.2004	11.45	0.3805600	CU M/MI	2116.496	CU M
SP6		08.27.2004	11.5	0.3840000	CU M/MI	2118.162	CU M
SP6		08.27.2004	11.55	0.3829000	CU M/MI	2119.903	CU M
SP6		08.27.2004	12	0.3800300	CU M/MI	2121.568	CU M
SP6		08.27.2004	12.05	0.3293300	CU M/MI	2123.271	CU M
SP6		08.27.2004	12.25	0.3836400	CU M/MI	2130.236	CU M
SP6		08.27.2004	12.3	0.3847700	CU M/MI	2131.939	CU M
SP6		08.27.2004	12.35	0.3927600	CU M/MI	2133.642	CU M
SP6		08.27.2004	12.4	0.3934700	CU M/MI	2135.383	CU M
SP6		08.27.2004	12.45	0.3664100	CU M/MI	2137.087	CU M
SP6		08.27.2004	12.5	0.0684900	CU M/MI	2139.017	CU M
SP6		08.27.2004	12.55	0.3835700	CU M/MI	2140.682	CU M
SP6		08.27.2004	13	0.3857200	CU M/MI	2142.386	CU M
SP6		08.27.2004	13.05	0.3844300	CU M/MI	2144.089	CU M
SP6		08.27.2004	13.1	0.3849200	CU M/MI	2145.754	CU M
SP6		08.27.2004	13.15	0.3848400	CU M/MI	2147.458	CU M
SP6		08.27.2004	13.2	0.3817600	CU M/MI	2149.161	CU M
SP6		08.27.2004	13.25	0.0400800	CU M/MI	2150.864	CU M
SP6		08.27.2004	13.3	0.3834500	CU M/MI	2152.757	CU M
SP6		08.27.2004	13.35	0.3833800	CU M/MI	2154.536	CU M
SP6		08.27.2004	13.4	0.3852500	CU M/MI	2156.428	CU M
SP6		08.27.2004	13.45	0.3838100	CU M/MI	2158.207	CU M
SP6		08.27.2004	13.5	0.3651600	CU M/MI	2159.948	CU M
SP6		08.27.2004	13.55	0.3842100	CU M/MI	2161.878	CU M
SP6		08.27.2004	14	0.3828900	CU M/MI	2163.620	CU M
SP6		08.27.2004	14.05	0.3834400	CU M/MI	2165.550	CU M
SP6		08.27.2004	14.1	0.3888400	CU M/MI	2167.329	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6		08.27.2004	14.15	0.3768900	CU M/MI	2169.070	CU M
SP6		08.27.2004	14.2	0.3852400	CU M/MI	2171.000	CU M
SP6		08.27.2004	14.25	0.3839200	CU M/MI	2172.741	CU M
SP6		08.27.2004	14.3	0.3834300	CU M/MI	2174.672	CU M
SP6		08.27.2004	14.35	0.3855500	CU M/MI	2176.375	CU M
SP6		08.27.2004	14.4	0.3802300	CU M/MI	2178.154	CU M
SP6		08.27.2004	14.45	0.3827000	CU M/MI	2180.084	CU M
SP6		08.27.2004	14.5	0.3821600	CU M/MI	2181.825	CU M
SP6		08.27.2004	14.55	0.3861800	CU M/MI	2183.718	CU M
SP6		08.27.2004	15	0.3890800	CU M/MI	2185.497	CU M
SP6		08.27.2004	15.05	0.3907900	CU M/MI	2187.276	CU M
SP6		08.27.2004	15.1	0.3925500	CU M/MI	2189.206	CU M
SP6		08.27.2004	15.15	0.3923600	CU M/MI	2190.985	CU M
SP6		08.27.2004	15.2	0.3891800	CU M/MI	2192.915	CU M
SP6		08.27.2004	15.25	0.3890000	CU M/MI	2194.657	CU M
SP6		08.27.2004	15.3	0.3875500	CU M/MI	2196.473	CU M
SP6		08.27.2004	15.35	0.3840500	CU M/MI	2198.252	CU M
SP6		08.27.2004	15.4	0.0262200	CU M/MI	2200.107	CU M
SP6		08.27.2004	15.45	0.3858700	CU M/MI	2201.999	CU M
SP6		08.27.2004	15.5	0.3861900	CU M/MI	2203.778	CU M
SP6		08.27.2004	15.55	0.3837400	CU M/MI	2205.557	CU M
SP6		08.27.2004	16	0.3848900	CU M/MI	2207.374	CU M
SP6		08.27.2004	16.05	0.0182500	CU M/MI	2209.191	CU M
SP6		08.27.2004	16.1	0.3842700	CU M/MI	2211.046	CU M
SP6		08.27.2004	16.15	0.3867800	CU M/MI	2212.787	CU M
SP6		08.27.2004	16.2	0.3811900	CU M/MI	2214.717	CU M
SP6		08.27.2004	16.25	0.3853600	CU M/MI	2216.458	CU M
SP6		08.27.2004	16.3	0.0194400	CU M/MI	2218.275	CU M
SP6		08.27.2004	16.35	0.3853800	CU M/MI	2220.130	CU M
SP6		08.27.2004	16.4	0.3852900	CU M/MI	2221.871	CU M
SP6		08.27.2004	16.45	0.3917000	CU M/MI	2223.801	CU M
SP6		08.27.2004	16.5	0.3917400	CU M/MI	2225.580	CU M
SP6		08.27.2004	16.55	0.3871700	CU M/MI	2227.397	CU M
SP6		08.27.2004	17	0.3893000	CU M/MI	2229.214	CU M
SP6		08.27.2004	17.05	0.3906600	CU M/MI	2231.030	CU M
SP6		08.27.2004	17.1	0.3970300	CU M/MI	2232.847	CU M
SP6		08.27.2004	17.15	0.3927400	CU M/MI	2234.588	CU M
SP6		08.27.2004	17.2	0.0219700	CU M/MI	2236.481	CU M
SP6		08.27.2004	17.25	0.3943800	CU M/MI	2238.373	CU M
SP6		08.27.2004	17.3	0.3941500	CU M/MI	2240.152	CU M
SP6		08.27.2004	17.35	0.3966700	CU M/MI	2241.969	CU M
SP6		08.27.2004	17.4	0.3944400	CU M/MI	2243.748	CU M
SP6		08.27.2004	17.45	0.3968200	CU M/MI	2245.527	CU M
SP6		08.27.2004	17.5	0.3924400	CU M/MI	2247.268	CU M
SP6		08.27.2004	17.55	0.3979900	CU M/MI	2249.085	CU M
SP6		08.27.2004	18	0.3978600	CU M/MI	2250.826	CU M
SP6		08.27.2004	18.05	0.3842000	CU M/MI	2252.605	CU M
SP6		08.27.2004	18.1	0.0231300	CU M/MI	2254.535	CU M
SP6		08.27.2004	18.15	0.3968400	CU M/MI	2256.390	CU M
SP6		08.27.2004	18.2	0.3989700	CU M/MI	2258.169	CU M
SP6		08.27.2004	18.25	0.3927300	CU M/MI	2259.948	CU M
SP6		08.27.2004	18.3	0.3976400	CU M/MI	2261.651	CU M
SP6		08.27.2004	18.35	0.3960500	CU M/MI	2263.392	CU M
SP6		08.27.2004	18.4	0.3949300	CU M/MI	2265.095	CU M
SP6		08.27.2004	18.45	0.3929100	CU M/MI	2266.344	CU M
SP6		08.27.2004	18.5	0.3801200	CU M/MI	2267.215	CU M
SP6		08.27.2004	18.55	0.0083500	CU M/MI	2268.275	CU M
SP6		08.27.2004	19	0.3912800	CU M/MI	2269.524	CU M
SP6		08.27.2004	19.05	0.3937500	CU M/MI	2271.227	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6		08.27.2004	19.1	0.3924600	CU M/MI	2272.930	CU M
SP6		08.27.2004	19.15	0.3897300	CU M/MI	2274.596	CU M
SP6		08.27.2004	19.2	0.3895000	CU M/MI	2276.299	CU M
SP6		08.27.2004	19.25	0.3900700	CU M/MI	2278.002	CU M
SP6		08.27.2004	19.3	0.3878800	CU M/MI	2279.668	CU M
SP6		08.27.2004	19.35	0.0099600	CU M/MI	2281.371	CU M
SP6		08.27.2004	19.4	0.3890000	CU M/MI	2283.301	CU M
SP6		08.27.2004	19.45	0.3903200	CU M/MI	2285.005	CU M
SP6		08.27.2004	19.5	0.3913200	CU M/MI	2286.670	CU M
SP6		08.27.2004	19.55	0.3901200	CU M/MI	2288.373	CU M
SP6		08.27.2004	20	0.3905400	CU M/MI	2290.076	CU M
SP6		08.27.2004	20.05	0.3904400	CU M/MI	2291.780	CU M
SP6		08.27.2004	20.1	0.3902200	CU M/MI	2293.445	CU M
SP6		08.27.2004	20.15	0.3830600	CU M/MI	2295.148	CU M
SP6		08.27.2004	20.2	0.0133000	CU M/MI	2296.927	CU M
SP6		08.27.2004	20.25	0.3876100	CU M/MI	2298.782	CU M
SP6		08.27.2004	20.3	0.3882800	CU M/MI	2300.447	CU M
SP6		08.27.2004	20.35	0.3892900	CU M/MI	2302.151	CU M
SP6		08.27.2004	20.4	0.3876500	CU M/MI	2303.816	CU M
SP6		08.27.2004	20.45	0.3875600	CU M/MI	2305.519	CU M
SP6		08.27.2004	20.5	0.3907200	CU M/MI	2307.185	CU M
SP6		08.27.2004	20.55	0.3858900	CU M/MI	2308.888	CU M
SP6		08.27.2004	21	0.0106000	CU M/MI	2310.591	CU M
SP6		08.27.2004	21.05	0.3872200	CU M/MI	2312.521	CU M
SP6		08.27.2004	21.1	0.3893700	CU M/MI	2314.187	CU M
SP6		08.27.2004	21.15	0.3902500	CU M/MI	2315.890	CU M
SP6		08.27.2004	21.2	0.3894000	CU M/MI	2317.556	CU M
SP6		08.27.2004	21.25	0.3899500	CU M/MI	2319.259	CU M
SP6		08.27.2004	21.3	0.3904300	CU M/MI	2320.962	CU M
SP6		08.27.2004	21.35	0.3885600	CU M/MI	2322.627	CU M
SP6		08.27.2004	21.4	0.0083400	CU M/MI	2324.293	CU M
SP6		08.27.2004	21.45	0.0059500	CU M/MI	2324.331	CU M
SP6		08.27.2004	21.5	0.0066500	CU M/MI	2324.331	CU M
SP6		08.27.2004	21.55	0.0060400	CU M/MI	2324.369	CU M
SP6		08.27.2004	22	0.0063400	CU M/MI	2324.406	CU M
SP6		08.27.2004	22.05	0.0058700	CU M/MI	2324.444	CU M
SP6		08.27.2004	22.1	0.0049600	CU M/MI	2324.482	CU M
SP6		08.27.2004	22.15	0.0217700	CU M/MI	2324.520	CU M
SP6		08.27.2004	22.2	0.0221500	CU M/MI	2324.633	CU M
SP6		08.27.2004	22.25	0.0212800	CU M/MI	2324.747	CU M
SP6		08.27.2004	22.3	0.0019900	CU M/MI	2324.861	CU M
SP6		08.27.2004	22.35	0.0000000	CU M/MI	2324.861	CU M
SP6		08.27.2004	22.4	0.0000000	CU M/MI	2324.861	CU M
SP6		08.27.2004	22.45	0.4904100	CU M/MI	2325.239	CU M
SP6		08.27.2004	22.5	0.4876500	CU M/MI	2327.661	CU M
SP6		08.27.2004	22.55	0.0034200	CU M/MI	2329.213	CU M
SP6		08.27.2004	23	0.0194400	CU M/MI	2331.144	CU M
SP6		08.27.2004	23.05	0.4872300	CU M/MI	2332.809	CU M
SP6		08.27.2004	23.1	0.4898500	CU M/MI	2334.474	CU M
SP6		08.27.2004	23.15	0.4760600	CU M/MI	2336.102	CU M
SP6		08.27.2004	23.2	0.0076200	CU M/MI	2337.919	CU M
SP6		08.27.2004	23.25	0.4878500	CU M/MI	2339.773	CU M
SP6		08.27.2004	23.3	0.4918300	CU M/MI	2341.325	CU M
SP6		08.27.2004	23.35	0.4782200	CU M/MI	2342.915	CU M
SP6		08.27.2004	23.4	0.0119900	CU M/MI	2344.808	CU M
SP6		08.27.2004	23.45	0.4925800	CU M/MI	2346.511	CU M
SP6		08.27.2004	23.5	0.4917300	CU M/MI	2348.100	CU M
SP6		08.27.2004	23.55	0.3659600	CU M/MI	2349.690	CU M
SP6		08.28.2004	0	0.0355700	CU M/MI	2351.658	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6		08.28.2004	0.05	0.4885200	CU M/MI	2353.248	CU M
SP6		08.28.2004	0.1	0.4818400	CU M/MI	2354.838	CU M
SP6		08.28.2004	0.15	0.0049900	CU M/MI	2356.579	CU M
SP6		08.28.2004	0.2	0.4914400	CU M/MI	2358.396	CU M
SP6		08.28.2004	0.25	0.4889700	CU M/MI	2359.985	CU M
SP6		08.28.2004	0.3	0.4628200	CU M/MI	2361.575	CU M
SP6		08.28.2004	0.35	0.0021600	CU M/MI	2362.483	CU M
SP6		08.28.2004	0.4	0.4954900	CU M/MI	2363.127	CU M
SP6		08.28.2004	0.45	0.4925400	CU M/MI	2365.625	CU M
SP6		08.28.2004	0.5	0.4899200	CU M/MI	2368.085	CU M
SP6		08.28.2004	0.55	0.4882800	CU M/MI	2369.826	CU M
SP6		08.28.2004	1	0.4869600	CU M/MI	2371.416	CU M
SP6		08.28.2004	1.05	0.0027600	CU M/MI	2373.006	CU M
SP6		08.28.2004	1.1	0.0514500	CU M/MI	2374.974	CU M
SP6		08.28.2004	1.15	0.4877700	CU M/MI	2376.526	CU M
SP6		08.28.2004	1.2	0.4759000	CU M/MI	2378.078	CU M
SP6		08.28.2004	1.25	0.0090700	CU M/MI	2379.932	CU M
SP6		08.28.2004	1.3	0.4889600	CU M/MI	2381.636	CU M
SP6		08.28.2004	1.35	0.4868000	CU M/MI	2383.225	CU M
SP6		08.28.2004	1.4	0.0032700	CU M/MI	2384.853	CU M
SP6		08.28.2004	1.45	0.4881000	CU M/MI	2386.783	CU M
SP6		08.28.2004	1.5	0.4880400	CU M/MI	2388.335	CU M
SP6		08.28.2004	1.55	0.4695500	CU M/MI	2389.887	CU M
SP6		08.28.2004	2	0.0157300	CU M/MI	2391.779	CU M
SP6		08.28.2004	2.05	0.4883600	CU M/MI	2393.445	CU M
SP6		08.28.2004	2.1	0.4848300	CU M/MI	2394.997	CU M
SP6		08.28.2004	2.15	0.0038300	CU M/MI	2396.700	CU M
SP6		08.28.2004	2.2	0.4879500	CU M/MI	2398.555	CU M
SP6		08.28.2004	2.25	0.4884000	CU M/MI	2400.106	CU M
SP6		08.28.2004	2.3	0.4638700	CU M/MI	2401.696	CU M
SP6		08.28.2004	2.35	0.0179700	CU M/MI	2403.589	CU M
SP6		08.28.2004	2.4	0.4893600	CU M/MI	2405.216	CU M
SP6		08.28.2004	2.45	0.4827300	CU M/MI	2406.768	CU M
SP6		08.28.2004	2.5	0.0064100	CU M/MI	2408.547	CU M
SP6		08.28.2004	2.55	0.4897300	CU M/MI	2410.288	CU M
SP6		08.28.2004	3	0.4893800	CU M/MI	2411.878	CU M
SP6		08.28.2004	3.05	0.0026400	CU M/MI	2413.430	CU M
SP6		08.28.2004	3.1	0.0371000	CU M/MI	2415.398	CU M
SP6		08.28.2004	3.15	0.4901600	CU M/MI	2416.987	CU M
SP6		08.28.2004	3.2	0.4821600	CU M/MI	2418.539	CU M
SP6		08.28.2004	3.25	0.0077200	CU M/MI	2420.318	CU M
SP6		08.28.2004	3.3	0.4904000	CU M/MI	2422.097	CU M
SP6		08.28.2004	3.35	0.4897500	CU M/MI	2423.649	CU M
SP6		08.28.2004	3.4	0.0027800	CU M/MI	2425.239	CU M
SP6		08.28.2004	3.45	0.3952700	CU M/MI	2427.056	CU M
SP6		08.28.2004	3.5	0.3948000	CU M/MI	2428.683	CU M
SP6		08.28.2004	3.55	0.3770900	CU M/MI	2430.311	CU M
SP6		08.28.2004	4	0.3921300	CU M/MI	2432.090	CU M
SP6		08.28.2004	4.05	0.3942700	CU M/MI	2433.717	CU M
SP6		08.28.2004	4.1	0.3918900	CU M/MI	2435.307	CU M
SP6		08.28.2004	4.15	0.0274800	CU M/MI	2437.048	CU M
SP6		08.28.2004	4.2	0.3930800	CU M/MI	2438.751	CU M
SP6		08.28.2004	4.25	0.3924200	CU M/MI	2440.341	CU M
SP6		08.28.2004	4.3	0.3823100	CU M/MI	2442.044	CU M
SP6		08.28.2004	4.35	0.0445000	CU M/MI	2443.861	CU M
SP6		08.28.2004	4.4	0.3930300	CU M/MI	2445.564	CU M
SP6		08.28.2004	4.45	0.3930900	CU M/MI	2447.381	CU M
SP6		08.28.2004	4.5	0.3927000	CU M/MI	2449.084	CU M
SP6		08.28.2004	4.55	0.3921900	CU M/MI	2450.825	CU M

Appendix B
Raw Flow from Effluent (SP-6)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6		08.28.2004	5	0.3921400	CU M/MI	2452.566	CU M
SP6		08.28.2004	5.05	0.3929700	CU M/MI	2454.308	CU M
SP6		08.28.2004	5.1	0.3925100	CU M/MI	2456.011	CU M
SP6		08.28.2004	5.15	0.3906600	CU M/MI	2457.752	CU M
SP6		08.28.2004	5.2	0.3563600	CU M/MI	2459.493	CU M
SP6		08.28.2004	5.25	0.0580300	CU M/MI	2461.423	CU M
SP6		08.28.2004	5.3	0.3919700	CU M/MI	2463.164	CU M
SP6		08.28.2004	5.35	0.3921300	CU M/MI	2464.906	CU M
SP6		08.28.2004	5.4	0.3916500	CU M/MI	2466.609	CU M
SP6		08.28.2004	5.45	0.3903300	CU M/MI	2468.350	CU M
SP6		08.28.2004	5.5	0.3912900	CU M/MI	2470.091	CU M
SP6		08.28.2004	5.55	0.3904800	CU M/MI	2471.794	CU M
SP6	Day 1	08.28.2004	6	0.3866900	CU M/MI	2475.417	CU M
SP6	Day 1	08.28.2004	6.05	0.0207400	CU M/MI	2477.197	CU M
SP6	Day 1	08.28.2004	6.1	0.3885300	CU M/MI	2479.091	CU M
SP6	Day 1	08.28.2004	6.15	0.3888400	CU M/MI	2480.795	CU M
SP6	Day 1	08.28.2004	6.2	0.3877200	CU M/MI	2482.538	CU M
SP6	Day 1	08.28.2004	6.25	0.3880600	CU M/MI	2484.242	CU M
SP6	Day 1	08.28.2004	6.3	0.3872800	CU M/MI	2485.985	CU M
SP6	Day 1	08.28.2004	6.35	0.3877100	CU M/MI	2487.727	CU M
SP6	Day 1	08.28.2004	6.4	0.3864400	CU M/MI	2489.470	CU M
SP6	Day 1	08.28.2004	6.45	0.3738300	CU M/MI	2491.174	CU M
SP6	Day 1	08.28.2004	6.5	0.0000000	CU M/MI	2493.068	CU M
SP6	Day 1	08.28.2004	6.55	0.3847600	CU M/MI	2494.848	CU M
SP6	Day 1	08.28.2004	7	0.3835600	CU M/MI	2496.553	CU M
SP6	Day 1	08.28.2004	7.05	0.3838900	CU M/MI	2498.295	CU M
SP6	Day 1	08.28.2004	7.1	0.3830700	CU M/MI	2500.000	CU M
SP6	Day 1	08.28.2004	7.15	0.3819500	CU M/MI	2501.705	CU M
SP6	Day 1	08.28.2004	7.2	0.3833500	CU M/MI	2503.447	CU M
SP6	Day 1	08.28.2004	7.25	0.3827400	CU M/MI	2505.189	CU M
SP6	Day 1	08.28.2004	7.3	0.3776400	CU M/MI	2506.894	CU M
SP6	Day 1	08.28.2004	7.35	0.0598800	CU M/MI	2508.712	CU M
SP6	Day 1	08.28.2004	7.4	0.3824100	CU M/MI	2510.530	CU M
SP6	Day 1	08.28.2004	7.45	0.3829900	CU M/MI	2512.273	CU M
SP6	Day 1	08.28.2004	7.5	0.3833100	CU M/MI	2514.015	CU M
SP6	Day 1	08.28.2004	7.55	0.3827900	CU M/MI	2515.720	CU M
SP6	Day 1	08.28.2004	8	0.3824800	CU M/MI	2517.462	CU M
SP6	Day 1	08.28.2004	8.05	0.3836300	CU M/MI	2519.205	CU M
SP6	Day 1	08.28.2004	8.1	0.3837900	CU M/MI	2520.909	CU M
SP6	Day 1	08.28.2004	8.15	0.3841500	CU M/MI	2522.538	CU M
SP6	Day 1	08.28.2004	8.2	0.0498200	CU M/MI	2523.902	CU M
SP6	Day 1	08.28.2004	8.25	0.0772300	CU M/MI	2525.455	CU M
SP6	Day 1	08.28.2004	8.3	0.3832300	CU M/MI	2526.818	CU M
SP6	Day 1	08.28.2004	8.35	0.3834800	CU M/MI	2528.144	CU M
SP6	Day 1	08.28.2004	8.4	0.3843800	CU M/MI	2529.470	CU M
SP6	Day 1	08.28.2004	8.45	0.0000000	CU M/MI	2530.871	CU M
SP6	Day 1	08.28.2004	8.5	0.3842400	CU M/MI	2532.348	CU M
SP6	Day 1	08.28.2004	8.55	0.3842200	CU M/MI	2533.636	CU M
SP6	Day 1	08.28.2004	9	0.3833000	CU M/MI	2534.962	CU M
SP6	Day 1	08.28.2004	9.05	0.0000000	CU M/MI	2536.288	CU M
SP6	Day 1	08.28.2004	9.1	0.0476300	CU M/MI	2537.803	CU M
SP6	Day 1	08.28.2004	9.15	0.3837600	CU M/MI	2539.545	CU M
SP6	Day 1	08.28.2004	9.2	0.3871400	CU M/MI	2540.152	CU M
SP6	Day 1	08.28.2004	9.25	0.3853000	CU M/MI	2542.083	CU M
SP6	Day 1	08.28.2004	9.3	0.3815500	CU M/MI	2543.977	CU M
SP6	Day 1	08.28.2004	9.35	0.0013400	CU M/MI	2545.000	CU M
SP6	Day 1	08.28.2004	9.4	0.3879800	CU M/MI	2546.629	CU M
SP6	Day 1	08.28.2004	9.45	0.3840500	CU M/MI	2548.561	CU M
SP6	Day 1	08.28.2004	9.5	0.3844500	CU M/MI	2550.492	CU M

Appendix B
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 1	08.28.2004	9.55	0.0016400	CU M/MI	2551.742	CU M
SP6	Day 1	08.28.2004	10	0.3878800	CU M/MI	2553.106	CU M
SP6	Day 1	08.28.2004	10.05	0.3858500	CU M/MI	2555.038	CU M
SP6	Day 1	08.28.2004	10.1	0.3844700	CU M/MI	2556.970	CU M
SP6	Day 1	08.28.2004	10.15	0.3856200	CU M/MI	2558.902	CU M
SP6	Day 1	08.28.2004	10.2	0.3845200	CU M/MI	2560.795	CU M
SP6	Day 1	08.28.2004	10.25	0.0028700	CU M/MI	2562.462	CU M
SP6	Day 1	08.28.2004	10.3	0.3874200	CU M/MI	2563.333	CU M
SP6	Day 1	08.28.2004	10.35	0.3864700	CU M/MI	2565.303	CU M
SP6	Day 1	08.28.2004	10.4	0.3876000	CU M/MI	2567.235	CU M
SP6	Day 1	08.28.2004	10.45	0.3854100	CU M/MI	2569.091	CU M
SP6	Day 1	08.28.2004	10.5	0.3848500	CU M/MI	2570.985	CU M
SP6	Day 1	08.28.2004	10.55	0.0014900	CU M/MI	2572.273	CU M
SP6	Day 1	08.28.2004	11	0.3840400	CU M/MI	2573.485	CU M
SP6	Day 1	08.28.2004	11.05	0.3856400	CU M/MI	2575.417	CU M
SP6	Day 1	08.28.2004	11.1	0.3862700	CU M/MI	2577.348	CU M
SP6	Day 1	08.28.2004	11.15	0.3850600	CU M/MI	2579.280	CU M
SP6	Day 1	08.28.2004	11.2	0.0012400	CU M/MI	2580.152	CU M
SP6	Day 1	08.28.2004	11.25	0.3882200	CU M/MI	2581.894	CU M
SP6	Day 1	08.28.2004	11.3	0.3873400	CU M/MI	2583.826	CU M
SP6	Day 1	08.28.2004	11.35	0.3866300	CU M/MI	2585.644	CU M
SP6	Day 1	08.28.2004	11.4	0.3887600	CU M/MI	2587.273	CU M
SP6	Day 1	08.28.2004	11.45	0.3888700	CU M/MI	2588.939	CU M
SP6	Day 1	08.28.2004	11.5	0.3747100	CU M/MI	2590.644	CU M
SP6	Day 1	08.28.2004	11.55	0.3899800	CU M/MI	2592.424	CU M
SP6	Day 1	08.28.2004	12	0.3945800	CU M/MI	2594.091	CU M
SP6	Day 1	08.28.2004	12.05	0.3959700	CU M/MI	2595.758	CU M
SP6	Day 1	08.28.2004	12.1	0.3862300	CU M/MI	2597.424	CU M
SP6	Day 1	08.28.2004	12.15	0.0544500	CU M/MI	2599.242	CU M
SP6	Day 1	08.28.2004	12.2	0.3976000	CU M/MI	2600.947	CU M
SP6	Day 1	08.28.2004	12.25	0.3962200	CU M/MI	2602.576	CU M
SP6	Day 1	08.28.2004	12.3	0.3909100	CU M/MI	2604.242	CU M
SP6	Day 1	08.28.2004	12.35	0.0326100	CU M/MI	2606.023	CU M
SP6	Day 1	08.28.2004	12.4	0.3955400	CU M/MI	2607.727	CU M
SP6	Day 1	08.28.2004	12.45	0.3972900	CU M/MI	2609.394	CU M
SP6	Day 1	08.28.2004	12.5	0.3933600	CU M/MI	2611.098	CU M
SP6	Day 1	08.28.2004	12.55	0.0224900	CU M/MI	2612.765	CU M
SP6	Day 1	08.28.2004	13	0.3975700	CU M/MI	2614.583	CU M
SP6	Day 1	08.28.2004	13.05	0.3966500	CU M/MI	2616.212	CU M
SP6	Day 1	08.28.2004	13.1	0.3926200	CU M/MI	2617.879	CU M
SP6	Day 1	08.28.2004	13.15	0.3306100	CU M/MI	2619.545	CU M
SP6	Day 1	08.28.2004	13.2	0.3925700	CU M/MI	2621.364	CU M
SP6	Day 1	08.28.2004	13.25	0.3931700	CU M/MI	2623.030	CU M
SP6	Day 1	08.28.2004	13.3	0.3931800	CU M/MI	2624.697	CU M
SP6	Day 1	08.28.2004	13.35	0.3370400	CU M/MI	2626.364	CU M
SP6	Day 1	08.28.2004	13.4	0.3926400	CU M/MI	2628.144	CU M
SP6	Day 1	08.28.2004	13.45	0.3922900	CU M/MI	2629.811	CU M
SP6	Day 1	08.28.2004	13.5	0.3930300	CU M/MI	2631.477	CU M
SP6	Day 1	08.28.2004	13.55	0.3376900	CU M/MI	2633.106	CU M
SP6	Day 1	08.28.2004	14	0.3919800	CU M/MI	2634.924	CU M
SP6	Day 1	08.28.2004	14.05	0.3932300	CU M/MI	2636.591	CU M
SP6	Day 1	08.28.2004	14.1	0.3931500	CU M/MI	2638.220	CU M
SP6	Day 1	08.28.2004	14.15	0.3285300	CU M/MI	2639.886	CU M
SP6	Day 1	08.28.2004	14.2	0.3925500	CU M/MI	2641.705	CU M
SP6	Day 1	08.28.2004	14.25	0.3930900	CU M/MI	2643.333	CU M
SP6	Day 1	08.28.2004	14.3	0.3908400	CU M/MI	2644.962	CU M
SP6	Day 1	08.28.2004	14.35	0.0346900	CU M/MI	2646.705	CU M
SP6	Day 1	08.28.2004	14.4	0.3924900	CU M/MI	2648.371	CU M
SP6	Day 1	08.28.2004	14.45	0.3943900	CU M/MI	2650.000	CU M

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Raw Flow from Effluent (SP-6)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 1	08.28.2004	14.5	0.3654100	CU M/MI	2651.629	CU M
SP6	Day 1	08.28.2004	14.55	0.3918600	CU M/MI	2653.409	CU M
SP6	Day 1	08.28.2004	15	0.3930500	CU M/MI	2655.038	CU M
SP6	Day 1	08.28.2004	15.05	0.3898500	CU M/MI	2656.667	CU M
SP6	Day 1	08.28.2004	15.1	0.0422900	CU M/MI	2658.409	CU M
SP6	Day 1	08.28.2004	15.15	0.3927300	CU M/MI	2660.076	CU M
SP6	Day 1	08.28.2004	15.2	0.3937200	CU M/MI	2661.705	CU M
SP6	Day 1	08.28.2004	15.25	0.3533000	CU M/MI	2663.295	CU M
SP6	Day 1	08.28.2004	15.3	0.3925300	CU M/MI	2665.076	CU M
SP6	Day 1	08.28.2004	15.35	0.3938100	CU M/MI	2666.705	CU M
SP6	Day 1	08.28.2004	15.4	0.3859300	CU M/MI	2668.333	CU M
SP6	Day 1	08.28.2004	15.45	0.3930500	CU M/MI	2670.152	CU M
SP6	Day 1	08.28.2004	15.5	0.3933500	CU M/MI	2671.780	CU M
SP6	Day 1	08.28.2004	15.55	0.3929400	CU M/MI	2673.447	CU M
SP6	Day 1	08.28.2004	16	0.3595500	CU M/MI	2675.114	CU M
SP6	Day 1	08.28.2004	16.05	0.0210900	CU M/MI	2676.932	CU M
SP6	Day 1	08.28.2004	16.1	0.3936700	CU M/MI	2678.750	CU M
SP6	Day 1	08.28.2004	16.15	0.3932600	CU M/MI	2680.379	CU M
SP6	Day 1	08.28.2004	16.2	0.3930000	CU M/MI	2682.045	CU M
SP6	Day 1	08.28.2004	16.25	0.3933800	CU M/MI	2683.712	CU M
SP6	Day 1	08.28.2004	16.3	0.3936700	CU M/MI	2685.379	CU M
SP6	Day 1	08.28.2004	16.35	0.3919300	CU M/MI	2686.970	CU M
SP6	Day 1	08.28.2004	16.4	0.0123200	CU M/MI	2688.674	CU M
SP6	Day 1	08.28.2004	16.45	0.3904800	CU M/MI	2690.606	CU M
SP6	Day 1	08.28.2004	16.5	0.3940700	CU M/MI	2692.273	CU M
SP6	Day 1	08.28.2004	16.55	0.3937000	CU M/MI	2693.977	CU M
SP6	Day 1	08.28.2004	17	0.3919800	CU M/MI	2695.606	CU M
SP6	Day 1	08.28.2004	17.05	0.3935100	CU M/MI	2697.273	CU M
SP6	Day 1	08.28.2004	17.1	0.3949400	CU M/MI	2698.977	CU M
SP6	Day 1	08.28.2004	17.15	0.3893500	CU M/MI	2700.606	CU M
SP6	Day 1	08.28.2004	17.2	0.0284900	CU M/MI	2702.386	CU M
SP6	Day 1	08.28.2004	17.25	0.3935600	CU M/MI	2704.091	CU M
SP6	Day 1	08.28.2004	17.3	0.3933000	CU M/MI	2705.720	CU M
SP6	Day 1	08.28.2004	17.35	0.3828500	CU M/MI	2707.386	CU M
SP6	Day 1	08.28.2004	17.4	0.3926700	CU M/MI	2709.205	CU M
SP6	Day 1	08.28.2004	17.45	0.3936400	CU M/MI	2710.833	CU M
SP6	Day 1	08.28.2004	17.5	0.3933400	CU M/MI	2712.500	CU M
SP6	Day 1	08.28.2004	17.55	0.3673000	CU M/MI	2714.167	CU M
SP6	Day 1	08.28.2004	18	0.3929200	CU M/MI	2715.947	CU M
SP6	Day 1	08.28.2004	18.05	0.3943700	CU M/MI	2717.614	CU M
SP6	Day 1	08.28.2004	18.1	0.3926300	CU M/MI	2719.280	CU M
SP6	Day 1	08.28.2004	18.15	0.2744300	CU M/MI	2720.947	CU M
SP6	Day 1	08.28.2004	18.2	0.3945700	CU M/MI	2722.727	CU M
SP6	Day 1	08.28.2004	18.25	0.3940500	CU M/MI	2724.394	CU M
SP6	Day 1	08.28.2004	18.3	0.3908100	CU M/MI	2726.061	CU M
SP6	Day 1	08.28.2004	18.35	0.0267100	CU M/MI	2727.803	CU M
SP6	Day 1	08.28.2004	18.4	0.3937700	CU M/MI	2729.508	CU M
SP6	Day 1	08.28.2004	18.45	0.3927900	CU M/MI	2731.174	CU M
SP6	Day 1	08.28.2004	18.5	0.3862300	CU M/MI	2732.803	CU M
SP6	Day 1	08.28.2004	18.55	0.0295700	CU M/MI	2734.583	CU M
SP6	Day 1	08.28.2004	19	0.3934700	CU M/MI	2736.288	CU M
SP6	Day 1	08.28.2004	19.05	0.3944900	CU M/MI	2737.917	CU M
SP6	Day 1	08.28.2004	19.1	0.3778400	CU M/MI	2739.583	CU M
SP6	Day 1	08.28.2004	19.35	0.0086800	CU M/MI	2748.182	CU M
SP6	Day 1	08.28.2004	19.4	0.0765100	CU M/MI	2750.076	CU M
SP6	Day 1	08.28.2004	19.45	0.3920800	CU M/MI	2751.780	CU M
SP6	Day 1	08.28.2004	19.5	0.3915500	CU M/MI	2753.523	CU M
SP6	Day 1	08.28.2004	19.55	0.3923900	CU M/MI	2755.265	CU M
SP6	Day 1	08.28.2004	20	0.3917400	CU M/MI	2757.008	CU M

Appendix B
Raw Flow from Effluent (SP-6)
23 August Through 3 September 2004

Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 1	08.28.2004	20.05	0.3922900	CU M/MI	2758.750	CU M
SP6	Day 1	08.28.2004	20.1	0.3940200	CU M/MI	2760.455	CU M
SP6	Day 1	08.28.2004	20.15	0.3948900	CU M/MI	2762.197	CU M
SP6	Day 1	08.28.2004	20.2	0.3920800	CU M/MI	2763.939	CU M
SP6	Day 1	08.28.2004	20.25	0.3578500	CU M/MI	2765.682	CU M
SP6	Day 1	08.28.2004	20.3	0.0260300	CU M/MI	2767.576	CU M
SP6	Day 1	08.28.2004	20.35	0.3930900	CU M/MI	2769.356	CU M
SP6	Day 1	08.28.2004	20.4	0.3946400	CU M/MI	2771.136	CU M
SP6	Day 1	08.28.2004	20.45	0.3943600	CU M/MI	2772.803	CU M
SP6	Day 1	08.28.2004	20.5	0.3913200	CU M/MI	2774.583	CU M
SP6	Day 1	08.28.2004	20.55	0.3915200	CU M/MI	2776.326	CU M
SP6	Day 1	08.28.2004	21	0.3921100	CU M/MI	2778.106	CU M
SP6	Day 1	08.28.2004	21.05	0.3961200	CU M/MI	2779.848	CU M
SP6	Day 1	08.28.2004	21.1	0.3944900	CU M/MI	2781.629	CU M
SP6	Day 1	08.28.2004	21.15	0.3789900	CU M/MI	2783.371	CU M
SP6	Day 1	08.28.2004	21.2	0.0182800	CU M/MI	2785.265	CU M
SP6	Day 1	08.28.2004	21.25	0.3924300	CU M/MI	2787.121	CU M
SP6	Day 1	08.28.2004	21.3	0.3924700	CU M/MI	2788.864	CU M
SP6	Day 1	08.28.2004	21.35	0.3956100	CU M/MI	2790.606	CU M
SP6	Day 1	08.28.2004	21.4	0.3931100	CU M/MI	2792.348	CU M
SP6	Day 1	08.28.2004	21.45	0.3912200	CU M/MI	2794.129	CU M
SP6	Day 1	08.28.2004	21.5	0.3915000	CU M/MI	2795.871	CU M
SP6	Day 1	08.28.2004	21.55	0.3919700	CU M/MI	2797.652	CU M
SP6	Day 1	08.28.2004	22	0.3932100	CU M/MI	2799.394	CU M
SP6	Day 1	08.28.2004	22.05	0.3857500	CU M/MI	2801.136	CU M
SP6	Day 1	08.28.2004	22.1	0.0115000	CU M/MI	2802.955	CU M
SP6	Day 1	08.28.2004	22.15	0.3921700	CU M/MI	2804.886	CU M
SP6	Day 1	08.28.2004	22.2	0.3922000	CU M/MI	2806.629	CU M
SP6	Day 1	08.28.2004	22.25	0.3915200	CU M/MI	2808.371	CU M
SP6	Day 1	08.28.2004	22.3	0.3928300	CU M/MI	2810.114	CU M
SP6	Day 1	08.28.2004	22.35	0.3919900	CU M/MI	2811.856	CU M
SP6	Day 1	08.28.2004	22.4	0.3925700	CU M/MI	2813.598	CU M
SP6	Day 1	08.28.2004	22.45	0.3935500	CU M/MI	2815.341	CU M
SP6	Day 1	08.28.2004	22.5	0.3934100	CU M/MI	2817.121	CU M
SP6	Day 1	08.28.2004	22.55	0.3908900	CU M/MI	2818.864	CU M
SP6	Day 1	08.28.2004	23	0.0079000	CU M/MI	2820.606	CU M
SP6	Day 1	08.28.2004	23.05	0.3908300	CU M/MI	2822.576	CU M
SP6	Day 1	08.28.2004	23.1	0.3917100	CU M/MI	2824.318	CU M
SP6	Day 1	08.28.2004	23.15	0.3934700	CU M/MI	2826.061	CU M
SP6	Day 1	08.28.2004	23.2	0.3943900	CU M/MI	2827.841	CU M
SP6	Day 1	08.28.2004	23.25	0.3928300	CU M/MI	2829.583	CU M
SP6	Day 1	08.28.2004	23.3	0.3917300	CU M/MI	2831.326	CU M
SP6	Day 1	08.28.2004	23.35	0.3933300	CU M/MI	2833.068	CU M
SP6	Day 1	08.28.2004	23.4	0.3937100	CU M/MI	2834.811	CU M
SP6	Day 1	08.28.2004	23.45	0.3900300	CU M/MI	2836.591	CU M
SP6	Day 1	08.28.2004	23.5	0.3659300	CU M/MI	2838.295	CU M
SP6	Day 1	08.28.2004	23.55	0.0387500	CU M/MI	2840.227	CU M
SP6	Day 1	08.29.2004	0	0.3925700	CU M/MI	2842.008	CU M
SP6	Day 1	08.29.2004	0.05	0.3933900	CU M/MI	2843.750	CU M
SP6	Day 1	08.29.2004	0.1	0.3946600	CU M/MI	2845.530	CU M
SP6	Day 1	08.29.2004	0.15	0.3920200	CU M/MI	2847.235	CU M
SP6	Day 1	08.29.2004	0.2	0.3932600	CU M/MI	2849.015	CU M
SP6	Day 1	08.29.2004	0.25	0.3932400	CU M/MI	2850.720	CU M
SP6	Day 1	08.29.2004	0.3	0.3941100	CU M/MI	2852.462	CU M
SP6	Day 1	08.29.2004	0.35	0.3913500	CU M/MI	2854.205	CU M
SP6	Day 1	08.29.2004	0.4	0.3511400	CU M/MI	2855.909	CU M
SP6	Day 1	08.29.2004	0.45	0.0311200	CU M/MI	2857.841	CU M
SP6	Day 1	08.29.2004	0.5	0.3928000	CU M/MI	2859.583	CU M
SP6	Day 1	08.29.2004	0.55	0.3943900	CU M/MI	2861.288	CU M

Appendix B
Raw Flow from Effluent (SP-6)
23 August Through 3 September 2004

Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 1	08.29.2004	1	0.3939500	CU M/MI	2863.030	CU M
SP6	Day 1	08.29.2004	1.05	0.3927500	CU M/MI	2864.735	CU M
SP6	Day 1	08.29.2004	1.1	0.3932300	CU M/MI	2866.439	CU M
SP6	Day 1	08.29.2004	1.15	0.3933700	CU M/MI	2868.144	CU M
SP6	Day 1	08.29.2004	1.2	0.3936900	CU M/MI	2869.848	CU M
SP6	Day 1	08.29.2004	1.25	0.3766600	CU M/MI	2871.553	CU M
SP6	Day 1	08.29.2004	1.3	0.0155500	CU M/MI	2873.447	CU M
SP6	Day 1	08.29.2004	1.35	0.3939000	CU M/MI	2875.265	CU M
SP6	Day 1	08.29.2004	1.4	0.3972400	CU M/MI	2876.970	CU M
SP6	Day 1	08.29.2004	1.45	0.3965000	CU M/MI	2878.674	CU M
SP6	Day 1	08.29.2004	1.5	0.3930100	CU M/MI	2880.379	CU M
SP6	Day 1	08.29.2004	1.55	0.3931100	CU M/MI	2882.045	CU M
SP6	Day 1	08.29.2004	2	0.3935600	CU M/MI	2883.750	CU M
SP6	Day 1	08.29.2004	2.05	0.3948800	CU M/MI	2885.417	CU M
SP6	Day 1	08.29.2004	2.1	0.3851900	CU M/MI	2887.121	CU M
SP6	Day 1	08.29.2004	2.15	0.0084800	CU M/MI	2888.939	CU M
SP6	Day 1	08.29.2004	2.2	0.3930000	CU M/MI	2890.758	CU M
SP6	Day 1	08.29.2004	2.25	0.3943200	CU M/MI	2892.462	CU M
SP6	Day 1	08.29.2004	2.3	0.3941000	CU M/MI	2894.129	CU M
SP6	Day 1	08.29.2004	2.35	0.3929100	CU M/MI	2895.833	CU M
SP6	Day 1	08.29.2004	2.4	0.3927500	CU M/MI	2897.500	CU M
SP6	Day 1	08.29.2004	2.45	0.3942000	CU M/MI	2899.205	CU M
SP6	Day 1	08.29.2004	2.5	0.3936100	CU M/MI	2900.871	CU M
SP6	Day 1	08.29.2004	2.55	0.3868000	CU M/MI	2902.538	CU M
SP6	Day 1	08.29.2004	3	0.0086800	CU M/MI	2904.356	CU M
SP6	Day 1	08.29.2004	3.05	0.3916800	CU M/MI	2906.212	CU M
SP6	Day 1	08.29.2004	3.1	0.3942500	CU M/MI	2907.879	CU M
SP6	Day 1	08.29.2004	3.15	0.3938500	CU M/MI	2909.545	CU M
SP6	Day 1	08.29.2004	3.2	0.3933300	CU M/MI	2911.174	CU M
SP6	Day 1	08.29.2004	3.25	0.3933500	CU M/MI	2912.879	CU M
SP6	Day 1	08.29.2004	3.3	0.3941600	CU M/MI	2914.545	CU M
SP6	Day 1	08.29.2004	3.35	0.3946700	CU M/MI	2916.250	CU M
SP6	Day 1	08.29.2004	3.4	0.3930300	CU M/MI	2917.917	CU M
SP6	Day 1	08.29.2004	3.45	0.0065300	CU M/MI	2919.659	CU M
SP6	Day 1	08.29.2004	3.5	0.0867900	CU M/MI	2921.553	CU M
SP6	Day 1	08.29.2004	3.55	0.3917300	CU M/MI	2923.220	CU M
SP6	Day 1	08.29.2004	4	0.3909600	CU M/MI	2924.886	CU M
SP6	Day 1	08.29.2004	4.05	0.4512700	CU M/MI	2926.364	CU M
SP6	Day 1	08.29.2004	4.1	0.0000000	CU M/MI	2928.220	CU M
SP6	Day 1	08.29.2004	4.15	0.4865500	CU M/MI	2929.924	CU M
SP6	Day 1	08.29.2004	4.2	0.4894700	CU M/MI	2931.553	CU M
SP6	Day 1	08.29.2004	4.25	0.4772600	CU M/MI	2933.182	CU M
SP6	Day 1	08.29.2004	4.3	0.0049400	CU M/MI	2934.962	CU M
SP6	Day 1	08.29.2004	4.35	0.4868200	CU M/MI	2936.818	CU M
SP6	Day 1	08.29.2004	4.4	0.4827600	CU M/MI	2938.447	CU M
SP6	Day 1	08.29.2004	4.45	0.4834700	CU M/MI	2940.076	CU M
SP6	Day 1	08.29.2004	4.5	0.0025100	CU M/MI	2941.705	CU M
SP6	Day 1	08.29.2004	4.55	0.0137500	CU M/MI	2943.598	CU M
SP6	Day 1	08.29.2004	5	0.4849100	CU M/MI	2945.265	CU M
SP6	Day 1	08.29.2004	5.05	0.4868000	CU M/MI	2946.894	CU M
SP6	Day 1	08.29.2004	5.1	0.4726600	CU M/MI	2948.447	CU M
SP6	Day 1	08.29.2004	5.15	0.0058400	CU M/MI	2950.265	CU M
SP6	Day 1	08.29.2004	5.2	0.4850500	CU M/MI	2951.098	CU M
SP6	Day 1	08.29.2004	5.25	0.0016800	CU M/MI	2951.553	CU M
SP6	Day 1	08.29.2004	5.3	0.0015400	CU M/MI	2951.591	CU M
SP6	Day 1	08.29.2004	5.35	0.0610500	CU M/MI	2951.856	CU M
SP6	Day 1	08.29.2004	5.4	0.0018900	CU M/MI	2952.273	CU M
SP6	Day 1	08.29.2004	5.45	0.0014700	CU M/MI	2952.273	CU M
SP6	Day 1	08.29.2004	5.5	0.0012900	CU M/MI	2952.273	CU M

Appendix B
Raw Flow from Effluent (SP-6)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 1	08.29.2004	5.55	0.0017800	CU M/MI	2952.538	CU M
SP6	Day 2	08.29.2004	6	0.0018000	CU M/MI	2952.576	CU M
SP6	Day 2	08.29.2004	6.05	0.0013100	CU M/MI	2952.576	CU M
SP6	Day 2	08.29.2004	6.1	0.0015400	CU M/MI	2952.576	CU M
SP6	Day 2	08.29.2004	6.15	0.4868400	CU M/MI	2953.220	CU M
SP6	Day 2	08.29.2004	6.2	0.0014700	CU M/MI	2953.902	CU M
SP6	Day 2	08.29.2004	6.25	0.0014300	CU M/MI	2954.205	CU M
SP6	Day 2	08.29.2004	6.3	0.0013300	CU M/MI	2954.205	CU M
SP6	Day 2	08.29.2004	6.35	0.0016700	CU M/MI	2954.508	CU M
SP6	Day 2	08.29.2004	6.4	0.0016200	CU M/MI	2954.508	CU M
SP6	Day 2	08.29.2004	6.45	0.4796700	CU M/MI	2954.659	CU M
SP6	Day 2	08.29.2004	6.5	0.0012400	CU M/MI	2954.811	CU M
SP6	Day 2	08.29.2004	6.55	0.0012800	CU M/MI	2954.811	CU M
SP6	Day 2	08.29.2004	7	0.0014400	CU M/MI	2955.114	CU M
SP6	Day 2	08.29.2004	7.05	0.0015100	CU M/MI	2955.114	CU M
SP6	Day 2	08.29.2004	7.1	0.0014400	CU M/MI	2955.114	CU M
SP6	Day 2	08.29.2004	7.15	0.0015500	CU M/MI	2955.985	CU M
SP6	Day 2	08.29.2004	7.2	0.0036400	CU M/MI	2957.273	CU M
SP6	Day 2	08.29.2004	7.25	0.0114400	CU M/MI	2958.144	CU M
SP6	Day 2	08.29.2004	7.3	0.0013100	CU M/MI	2958.371	CU M
SP6	Day 2	08.29.2004	7.35	0.4180600	CU M/MI	2958.371	CU M
SP6	Day 2	08.29.2004	7.4	0.0009900	CU M/MI	2958.636	CU M
SP6	Day 2	08.29.2004	7.45	0.0012800	CU M/MI	2958.636	CU M
SP6	Day 2	08.29.2004	7.5	0.0012000	CU M/MI	2958.939	CU M
SP6	Day 2	08.29.2004	7.55	0.0012000	CU M/MI	2958.939	CU M
SP6	Day 2	08.29.2004	8	0.4862700	CU M/MI	2959.583	CU M
SP6	Day 2	08.29.2004	8.05	0.4770700	CU M/MI	2961.174	CU M
SP6	Day 2	08.29.2004	8.1	0.4703000	CU M/MI	2962.689	CU M
SP6	Day 2	08.29.2004	8.15	0.0015800	CU M/MI	2964.205	CU M
SP6	Day 2	08.29.2004	8.2	0.0236700	CU M/MI	2966.061	CU M
SP6	Day 2	08.29.2004	8.25	0.0419700	CU M/MI	2967.462	CU M
SP6	Day 2	08.29.2004	8.3	0.0011400	CU M/MI	2968.030	CU M
SP6	Day 2	08.29.2004	8.35	0.4698500	CU M/MI	2968.447	CU M
SP6	Day 2	08.29.2004	8.4	0.0000000	CU M/MI	2968.485	CU M
SP6	Day 2	08.29.2004	8.45	0.2536900	CU M/MI	2968.788	CU M
SP6	Day 2	08.29.2004	8.5	0.4795600	CU M/MI	2971.061	CU M
SP6	Day 2	08.29.2004	8.55	0.4772800	CU M/MI	2972.727	CU M
SP6	Day 2	08.29.2004	9	0.0000000	CU M/MI	2974.432	CU M
SP6	Day 2	08.29.2004	9.05	0.3283300	CU M/MI	2976.023	CU M
SP6	Day 2	08.29.2004	9.1	0.3983400	CU M/MI	2977.652	CU M
SP6	Day 2	08.29.2004	9.15	0.3742600	CU M/MI	2979.318	CU M
SP6	Day 2	08.29.2004	9.2	0.3871200	CU M/MI	2981.136	CU M
SP6	Day 2	08.29.2004	9.25	0.3889800	CU M/MI	2982.727	CU M
SP6	Day 2	08.29.2004	9.3	0.3899300	CU M/MI	2984.356	CU M
SP6	Day 2	08.29.2004	9.35	0.0212800	CU M/MI	2986.023	CU M
SP6	Day 2	08.29.2004	9.4	0.3876400	CU M/MI	2987.727	CU M
SP6	Day 2	08.29.2004	9.45	0.3913600	CU M/MI	2989.280	CU M
SP6	Day 2	08.29.2004	9.5	0.3662900	CU M/MI	2990.909	CU M
SP6	Day 2	08.29.2004	9.55	0.3890900	CU M/MI	2992.652	CU M
SP6	Day 2	08.29.2004	10	0.3927100	CU M/MI	2994.280	CU M
SP6	Day 2	08.29.2004	10.05	0.3884600	CU M/MI	2995.871	CU M
SP6	Day 2	08.29.2004	10.1	0.0337500	CU M/MI	2997.614	CU M
SP6	Day 2	08.29.2004	10.15	0.3909100	CU M/MI	2999.280	CU M
SP6	Day 2	08.29.2004	10.2	0.3956900	CU M/MI	3000.909	CU M
SP6	Day 2	08.29.2004	10.25	0.3620700	CU M/MI	3002.538	CU M
SP6	Day 2	08.29.2004	10.3	0.3908400	CU M/MI	3004.318	CU M
SP6	Day 2	08.29.2004	10.35	0.3915200	CU M/MI	3005.947	CU M
SP6	Day 2	08.29.2004	10.4	0.3876500	CU M/MI	3007.576	CU M
SP6	Day 2	08.29.2004	10.45	0.3865400	CU M/MI	3009.356	CU M

Appendix B
Raw Flow from Effluent (SP-6)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 2	08.29.2004	10.5	0.3918100	CU M/MI	3010.947	CU M
SP6	Day 2	08.29.2004	10.55	0.3920200	CU M/MI	3012.576	CU M
SP6	Day 2	08.29.2004	11	0.0036100	CU M/MI	3014.242	CU M
SP6	Day 2	08.29.2004	11.05	0.3920000	CU M/MI	3015.985	CU M
SP6	Day 2	08.29.2004	11.1	0.3928100	CU M/MI	3017.614	CU M
SP6	Day 2	08.29.2004	11.15	0.3813800	CU M/MI	3019.205	CU M
SP6	Day 2	08.29.2004	11.2	0.3900300	CU M/MI	3020.985	CU M
SP6	Day 2	08.29.2004	11.25	0.3936900	CU M/MI	3022.614	CU M
SP6	Day 2	08.29.2004	11.3	0.3913100	CU M/MI	3024.205	CU M
SP6	Day 2	08.29.2004	11.35	0.0732000	CU M/MI	3025.985	CU M
SP6	Day 2	08.29.2004	11.4	0.3923400	CU M/MI	3027.614	CU M
SP6	Day 2	08.29.2004	11.45	0.3923000	CU M/MI	3029.318	CU M
SP6	Day 2	08.29.2004	11.5	0.3793200	CU M/MI	3030.947	CU M
SP6	Day 2	08.29.2004	11.55	0.4047100	CU M/MI	3032.765	CU M
SP6	Day 2	08.29.2004	12	0.4023700	CU M/MI	3034.432	CU M
SP6	Day 2	08.29.2004	12.05	0.0051200	CU M/MI	3035.720	CU M
SP6	Day 2	08.29.2004	12.1	0.0031400	CU M/MI	3035.720	CU M
SP6	Day 2	08.29.2004	12.15	0.4000800	CU M/MI	3037.348	CU M
SP6	Day 2	08.29.2004	12.2	0.3981900	CU M/MI	3039.356	CU M
SP6	Day 2	08.29.2004	12.25	0.3957800	CU M/MI	3041.326	CU M
SP6	Day 2	08.29.2004	12.3	0.3924000	CU M/MI	3043.295	CU M
SP6	Day 2	08.29.2004	12.35	0.3928600	CU M/MI	3045.265	CU M
SP6	Day 2	08.29.2004	12.4	0.3891800	CU M/MI	3047.008	CU M
SP6	Day 2	08.29.2004	12.45	0.0214600	CU M/MI	3048.750	CU M
SP6	Day 2	08.29.2004	12.5	0.3888800	CU M/MI	3050.455	CU M
SP6	Day 2	08.29.2004	12.55	0.3944100	CU M/MI	3052.083	CU M
SP6	Day 2	08.29.2004	13	0.3763000	CU M/MI	3053.712	CU M
SP6	Day 2	08.29.2004	13.05	0.3916000	CU M/MI	3055.530	CU M
SP6	Day 2	08.29.2004	13.1	0.3920000	CU M/MI	3057.159	CU M
SP6	Day 2	08.29.2004	13.15	0.3918200	CU M/MI	3058.977	CU M
SP6	Day 2	08.29.2004	13.2	0.3915000	CU M/MI	3060.682	CU M
SP6	Day 2	08.29.2004	13.25	0.3907500	CU M/MI	3062.386	CU M
SP6	Day 2	08.29.2004	13.3	0.3924200	CU M/MI	3064.129	CU M
SP6	Day 2	08.29.2004	13.35	0.3931900	CU M/MI	3065.833	CU M
SP6	Day 2	08.29.2004	13.4	0.3879500	CU M/MI	3067.500	CU M
SP6	Day 2	08.29.2004	13.45	0.0157400	CU M/MI	3069.280	CU M
SP6	Day 2	08.29.2004	13.5	0.0669600	CU M/MI	3071.174	CU M
SP6	Day 2	08.29.2004	13.55	0.3921700	CU M/MI	3072.917	CU M
SP6	Day 2	08.29.2004	14	0.3928700	CU M/MI	3074.621	CU M
SP6	Day 2	08.29.2004	14.05	0.3918600	CU M/MI	3076.326	CU M
SP6	Day 2	08.29.2004	14.1	0.3901600	CU M/MI	3078.030	CU M
SP6	Day 2	08.29.2004	14.15	0.3905600	CU M/MI	3079.773	CU M
SP6	Day 2	08.29.2004	14.2	0.3916900	CU M/MI	3081.515	CU M
SP6	Day 2	08.29.2004	14.25	0.3917400	CU M/MI	3083.258	CU M
SP6	Day 2	08.29.2004	14.3	0.3931700	CU M/MI	3085.000	CU M
SP6	Day 2	08.29.2004	14.35	0.0679800	CU M/MI	3086.932	CU M
SP6	Day 2	08.29.2004	14.4	0.3865000	CU M/MI	3088.674	CU M
SP6	Day 2	08.29.2004	14.45	0.3860200	CU M/MI	3090.417	CU M
SP6	Day 2	08.29.2004	14.5	0.3857900	CU M/MI	3092.121	CU M
SP6	Day 2	08.29.2004	14.55	0.3844800	CU M/MI	3093.864	CU M
SP6	Day 2	08.29.2004	15	0.3843000	CU M/MI	3095.606	CU M
SP6	Day 2	08.29.2004	15.05	0.3866800	CU M/MI	3097.311	CU M
SP6	Day 2	08.29.2004	15.1	0.3851500	CU M/MI	3099.053	CU M
SP6	Day 2	08.29.2004	15.15	0.3785300	CU M/MI	3100.795	CU M
SP6	Day 2	08.29.2004	15.2	0.0000000	CU M/MI	3102.689	CU M
SP6	Day 2	08.29.2004	15.25	0.3840100	CU M/MI	3104.394	CU M
SP6	Day 2	08.29.2004	15.3	0.0355000	CU M/MI	3105.568	CU M
SP6	Day 2	08.29.2004	15.35	0.0000000	CU M/MI	3105.644	CU M
SP6	Day 2	08.29.2004	15.4	0.0270000	CU M/MI	3105.644	CU M

Appendix B
Raw Flow from Effluent (SP-6)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 2	08.29.2004	15.45	0.0000000	CU M/MI	3105.795	CU M
SP6	Day 2	08.29.2004	15.5	0.0296900	CU M/MI	3105.947	CU M
SP6	Day 2	08.29.2004	15.55	0.0315400	CU M/MI	3106.098	CU M
SP6	Day 2	08.29.2004	16	0.0301200	CU M/MI	3106.212	CU M
SP6	Day 2	08.29.2004	16.05	0.0019800	CU M/MI	3106.250	CU M
SP6	Day 2	08.29.2004	16.1	0.0000000	CU M/MI	3106.288	CU M
SP6	Day 2	08.29.2004	16.15	0.0000000	CU M/MI	3106.288	CU M
SP6	Day 2	08.29.2004	16.2	0.0018900	CU M/MI	3106.288	CU M
SP6	Day 2	08.29.2004	16.25	0.0019700	CU M/MI	3106.326	CU M
SP6	Day 2	08.29.2004	16.3	0.0016600	CU M/MI	3106.326	CU M
SP6	Day 2	08.29.2004	16.35	0.0016600	CU M/MI	3106.326	CU M
SP6	Day 2	08.29.2004	16.4	0.0014800	CU M/MI	3106.326	CU M
SP6	Day 2	08.29.2004	16.45	0.0012400	CU M/MI	3106.326	CU M
SP6	Day 2	08.29.2004	16.5	0.0013600	CU M/MI	3106.364	CU M
SP6	Day 2	08.29.2004	16.55	0.0011800	CU M/MI	3106.364	CU M
SP6	Day 2	08.29.2004	17	0.0011100	CU M/MI	3106.364	CU M
SP6	Day 2	08.29.2004	17.2	0.0005000	CU M/MI	3106.364	CU M
SP6	Day 2	08.29.2004	17.25	0.0004600	CU M/MI	3106.364	CU M
SP6	Day 2	08.29.2004	17.3	0.0003300	CU M/MI	3106.364	CU M
SP6	Day 2	08.29.2004	17.35	0.0000700	CU M/MI	3106.402	CU M
SP6	Day 2	08.29.2004	17.4	0.0001700	CU M/MI	3106.402	CU M
SP6	Day 2	08.29.2004	17.45	0.0000600	CU M/MI	3106.402	CU M
SP6	Day 2	08.29.2004	17.5	0.0002900	CU M/MI	3106.402	CU M
SP6	Day 2	08.29.2004	17.55	0.0000900	CU M/MI	3106.402	CU M
SP6	Day 2	08.29.2004	18	0.0003500	CU M/MI	3106.402	CU M
SP6	Day 2	08.29.2004	18.05	0.0000000	CU M/MI	3106.402	CU M
SP6	Day 2	08.29.2004	18.1	0.0002900	CU M/MI	3106.402	CU M
SP6	Day 2	08.29.2004	18.15	0.0001100	CU M/MI	3106.402	CU M
SP6	Day 2	08.29.2004	18.2	0.0000400	CU M/MI	3106.402	CU M
SP6	Day 2	08.29.2004	18.25	0.0000100	CU M/MI	3106.402	CU M
SP6	Day 2	08.29.2004	18.3	0.0000000	CU M/MI	3106.402	CU M
SP6	Day 2	08.29.2004	18.35	0.0000000	CU M/MI	3106.402	CU M
SP6	Day 2	08.29.2004	18.4	0.0000000	CU M/MI	3106.402	CU M
SP6	Day 2	08.29.2004	18.45	0.0000000	CU M/MI	3106.402	CU M
SP6	Day 2	08.29.2004	18.5	0.0000000	CU M/MI	3106.402	CU M
SP6	Day 2	08.29.2004	18.55	0.0000000	CU M/MI	3106.402	CU M
SP6	Day 2	08.29.2004	19	0.0000000	CU M/MI	3106.364	CU M
SP6	Day 2	08.29.2004	19.05	0.0000000	CU M/MI	3106.364	CU M
SP6	Day 2	08.29.2004	19.1	0.0000000	CU M/MI	3106.364	CU M
SP6	Day 2	08.29.2004	19.15	0.0000000	CU M/MI	3106.364	CU M
SP6	Day 2	08.29.2004	19.2	0.0000000	CU M/MI	3106.364	CU M
SP6	Day 2	08.29.2004	19.25	0.0006300	CU M/MI	3106.364	CU M
SP6	Day 2	08.29.2004	19.3	0.3982800	CU M/MI	3108.068	CU M
SP6	Day 2	08.29.2004	19.35	0.3879800	CU M/MI	3110.000	CU M
SP6	Day 2	08.29.2004	19.4	0.3856400	CU M/MI	3111.970	CU M
SP6	Day 2	08.29.2004	19.45	0.3849100	CU M/MI	3113.864	CU M
SP6	Day 2	08.29.2004	19.5	0.3840100	CU M/MI	3115.795	CU M
SP6	Day 2	08.29.2004	19.55	0.3811000	CU M/MI	3117.727	CU M
SP6	Day 2	08.29.2004	20	0.3816400	CU M/MI	3119.621	CU M
SP6	Day 2	08.29.2004	20.05	0.3798500	CU M/MI	3121.515	CU M
SP6	Day 2	08.29.2004	20.1	0.3776400	CU M/MI	3123.409	CU M
SP6	Day 2	08.29.2004	20.15	0.0008700	CU M/MI	3124.356	CU M
SP6	Day 2	08.29.2004	20.2	0.3744900	CU M/MI	3125.606	CU M
SP6	Day 2	08.29.2004	20.25	0.3741300	CU M/MI	3127.462	CU M
SP6	Day 2	08.29.2004	20.3	0.3736100	CU M/MI	3129.356	CU M
SP6	Day 2	08.29.2004	20.35	0.3714800	CU M/MI	3131.212	CU M
SP6	Day 2	08.29.2004	20.4	0.3689600	CU M/MI	3133.068	CU M
SP6	Day 2	08.29.2004	20.45	0.3691100	CU M/MI	3134.886	CU M
SP6	Day 2	08.29.2004	20.5	0.3676600	CU M/MI	3136.742	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 2	08.29.2004	20.55	0.3651700	CU M/MI	3138.561	CU M
SP6	Day 2	08.29.2004	21	0.3631700	CU M/MI	3140.379	CU M
SP6	Day 2	08.29.2004	21.05	0.0009200	CU M/MI	3141.629	CU M
SP6	Day 2	08.29.2004	21.1	0.3698100	CU M/MI	3142.992	CU M
SP6	Day 2	08.29.2004	21.15	0.3678100	CU M/MI	3144.848	CU M
SP6	Day 2	08.29.2004	21.2	0.3676500	CU M/MI	3146.667	CU M
SP6	Day 2	08.29.2004	21.25	0.3657200	CU M/MI	3148.523	CU M
SP6	Day 2	08.29.2004	21.3	0.3657000	CU M/MI	3150.341	CU M
SP6	Day 2	08.29.2004	21.35	0.3649300	CU M/MI	3152.159	CU M
SP6	Day 2	08.29.2004	21.4	0.3637500	CU M/MI	3153.977	CU M
SP6	Day 2	08.29.2004	21.45	0.3635700	CU M/MI	3155.833	CU M
SP6	Day 2	08.29.2004	21.5	0.3640700	CU M/MI	3157.652	CU M
SP6	Day 2	08.29.2004	21.55	0.3635700	CU M/MI	3159.470	CU M
SP6	Day 2	08.29.2004	22	0.3646600	CU M/MI	3161.288	CU M
SP6	Day 2	08.29.2004	22.05	0.3634200	CU M/MI	3163.106	CU M
SP6	Day 2	08.29.2004	22.1	0.3640000	CU M/MI	3164.886	CU M
SP6	Day 2	08.29.2004	22.15	0.3629400	CU M/MI	3166.705	CU M
SP6	Day 2	08.29.2004	22.2	0.3637100	CU M/MI	3168.523	CU M
SP6	Day 2	08.29.2004	22.25	0.0086000	CU M/MI	3170.227	CU M
SP6	Day 2	08.29.2004	22.3	0.3650100	CU M/MI	3171.136	CU M
SP6	Day 2	08.29.2004	22.35	0.3668600	CU M/MI	3172.955	CU M
SP6	Day 2	08.29.2004	22.4	0.3672700	CU M/MI	3174.773	CU M
SP6	Day 2	08.29.2004	22.45	0.3664900	CU M/MI	3176.629	CU M
SP6	Day 2	08.29.2004	22.5	0.3652700	CU M/MI	3178.447	CU M
SP6	Day 2	08.29.2004	22.55	0.3665300	CU M/MI	3180.265	CU M
SP6	Day 2	08.29.2004	23	0.3661200	CU M/MI	3182.121	CU M
SP6	Day 2	08.29.2004	23.05	0.3648000	CU M/MI	3183.939	CU M
SP6	Day 2	08.29.2004	23.1	0.3704200	CU M/MI	3185.758	CU M
SP6	Day 2	08.29.2004	23.15	0.3638300	CU M/MI	3187.614	CU M
SP6	Day 2	08.29.2004	23.2	0.3635000	CU M/MI	3189.432	CU M
SP6	Day 2	08.29.2004	23.25	0.3637200	CU M/MI	3191.250	CU M
SP6	Day 2	08.29.2004	23.3	0.3643500	CU M/MI	3193.106	CU M
SP6	Day 2	08.29.2004	23.35	0.3658800	CU M/MI	3194.924	CU M
SP6	Day 2	08.29.2004	23.4	0.3665300	CU M/MI	3196.742	CU M
SP6	Day 2	08.29.2004	23.45	0.3679800	CU M/MI	3198.598	CU M
SP6	Day 2	08.29.2004	23.5	0.3683700	CU M/MI	3200.417	CU M
SP6	Day 2	08.29.2004	23.55	0.3680800	CU M/MI	3202.273	CU M
SP6	Day 2	08.30.2004	0	0.3677100	CU M/MI	3204.091	CU M
SP6	Day 2	08.30.2004	0.05	0.3703700	CU M/MI	3204.886	CU M
SP6	Day 2	08.30.2004	0.1	0.3748900	CU M/MI	3206.780	CU M
SP6	Day 2	08.30.2004	0.15	0.3728000	CU M/MI	3208.636	CU M
SP6	Day 2	08.30.2004	0.2	0.3737700	CU M/MI	3210.530	CU M
SP6	Day 2	08.30.2004	0.25	0.3721500	CU M/MI	3212.386	CU M
SP6	Day 2	08.30.2004	0.3	0.3711300	CU M/MI	3214.242	CU M
SP6	Day 2	08.30.2004	0.35	0.3713300	CU M/MI	3216.136	CU M
SP6	Day 2	08.30.2004	0.4	0.3716100	CU M/MI	3217.992	CU M
SP6	Day 2	08.30.2004	0.45	0.3734300	CU M/MI	3219.848	CU M
SP6	Day 2	08.30.2004	0.5	0.3711500	CU M/MI	3221.705	CU M
SP6	Day 2	08.30.2004	0.55	0.3652200	CU M/MI	3222.462	CU M
SP6	Day 2	08.30.2004	1	0.3723900	CU M/MI	3224.356	CU M
SP6	Day 2	08.30.2004	1.05	0.3729900	CU M/MI	3226.212	CU M
SP6	Day 2	08.30.2004	1.1	0.3730300	CU M/MI	3228.068	CU M
SP6	Day 2	08.30.2004	1.15	0.3723300	CU M/MI	3229.962	CU M
SP6	Day 2	08.30.2004	1.2	0.3739000	CU M/MI	3231.818	CU M
SP6	Day 2	08.30.2004	1.25	0.3753800	CU M/MI	3233.674	CU M
SP6	Day 2	08.30.2004	1.3	0.3752100	CU M/MI	3235.530	CU M
SP6	Day 2	08.30.2004	1.35	0.3721500	CU M/MI	3237.424	CU M
SP6	Day 2	08.30.2004	1.4	0.3523800	CU M/MI	3238.182	CU M
SP6	Day 2	08.30.2004	1.45	0.3768800	CU M/MI	3240.076	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 2	08.30.2004	1.5	0.3746500	CU M/MI	3241.970	CU M
SP6	Day 2	08.30.2004	1.55	0.3746600	CU M/MI	3243.826	CU M
SP6	Day 2	08.30.2004	2	0.3753500	CU M/MI	3245.720	CU M
SP6	Day 2	08.30.2004	2.05	0.3755900	CU M/MI	3247.614	CU M
SP6	Day 2	08.30.2004	2.1	0.3760000	CU M/MI	3249.470	CU M
SP6	Day 2	08.30.2004	2.15	0.3770300	CU M/MI	3251.326	CU M
SP6	Day 2	08.30.2004	2.2	0.3749100	CU M/MI	3253.220	CU M
SP6	Day 2	08.30.2004	2.25	0.0063100	CU M/MI	3254.924	CU M
SP6	Day 2	08.30.2004	2.3	0.3769200	CU M/MI	3255.871	CU M
SP6	Day 2	08.30.2004	2.35	0.3763800	CU M/MI	3257.765	CU M
SP6	Day 2	08.30.2004	2.4	0.3770800	CU M/MI	3259.659	CU M
SP6	Day 2	08.30.2004	2.45	0.3754700	CU M/MI	3261.515	CU M
SP6	Day 2	08.30.2004	2.5	0.3763100	CU M/MI	3263.409	CU M
SP6	Day 2	08.30.2004	2.55	0.3781500	CU M/MI	3265.303	CU M
SP6	Day 2	08.30.2004	3	0.3769800	CU M/MI	3267.159	CU M
SP6	Day 2	08.30.2004	3.05	0.3753900	CU M/MI	3269.053	CU M
SP6	Day 2	08.30.2004	3.1	0.3737900	CU M/MI	3270.909	CU M
SP6	Day 2	08.30.2004	3.15	0.0010100	CU M/MI	3271.780	CU M
SP6	Day 2	08.30.2004	3.2	0.3770800	CU M/MI	3273.598	CU M
SP6	Day 2	08.30.2004	3.25	0.3803200	CU M/MI	3275.492	CU M
SP6	Day 2	08.30.2004	3.3	0.3816400	CU M/MI	3277.386	CU M
SP6	Day 2	08.30.2004	3.35	0.3787900	CU M/MI	3279.280	CU M
SP6	Day 2	08.30.2004	3.4	0.3821000	CU M/MI	3281.174	CU M
SP6	Day 2	08.30.2004	3.45	0.3813000	CU M/MI	3283.068	CU M
SP6	Day 2	08.30.2004	3.5	0.3773700	CU M/MI	3284.962	CU M
SP6	Day 2	08.30.2004	3.55	0.3781100	CU M/MI	3286.856	CU M
SP6	Day 2	08.30.2004	4	0.3739700	CU M/MI	3288.750	CU M
SP6	Day 2	08.30.2004	4.05	0.0012000	CU M/MI	3289.621	CU M
SP6	Day 2	08.30.2004	4.1	0.3834500	CU M/MI	3290.909	CU M
SP6	Day 2	08.30.2004	4.15	0.3874900	CU M/MI	3292.841	CU M
SP6	Day 2	08.30.2004	4.2	0.3867500	CU M/MI	3294.773	CU M
SP6	Day 2	08.30.2004	4.25	0.3875500	CU M/MI	3296.705	CU M
SP6	Day 2	08.30.2004	4.3	0.3879500	CU M/MI	3298.636	CU M
SP6	Day 2	08.30.2004	4.35	0.3864100	CU M/MI	3300.568	CU M
SP6	Day 2	08.30.2004	4.4	0.3837700	CU M/MI	3302.462	CU M
SP6	Day 2	08.30.2004	4.45	0.3828000	CU M/MI	3304.167	CU M
SP6	Day 2	08.30.2004	4.5	0.3849300	CU M/MI	3305.947	CU M
SP6	Day 2	08.30.2004	4.55	0.3844900	CU M/MI	3307.727	CU M
SP6	Day 2	08.30.2004	5	0.3866100	CU M/MI	3309.470	CU M
SP6	Day 2	08.30.2004	5.05	0.3849800	CU M/MI	3311.250	CU M
SP6	Day 2	08.30.2004	5.1	0.3823000	CU M/MI	3313.030	CU M
SP6	Day 2	08.30.2004	5.15	0.3818300	CU M/MI	3314.848	CU M
SP6	Day 2	08.30.2004	5.2	0.3781400	CU M/MI	3316.591	CU M
SP6	Day 2	08.30.2004	5.25	0.0391500	CU M/MI	3318.371	CU M
SP6	Day 2	08.30.2004	5.3	0.1232600	CU M/MI	3320.227	CU M
SP6	Day 2	08.30.2004	5.35	0.3818500	CU M/MI	3322.008	CU M
SP6	Day 2	08.30.2004	5.4	0.3847800	CU M/MI	3323.788	CU M
SP6	Day 2	08.30.2004	5.45	0.3842700	CU M/MI	3325.530	CU M
SP6	Day 2	08.30.2004	5.5	0.3842900	CU M/MI	3327.273	CU M
SP6	Day 2	08.30.2004	5.55	0.3855100	CU M/MI	3328.977	CU M
SP6	Day 3	08.30.2004	6	0.3830600	CU M/MI	3330.720	CU M
SP6	Day 3	08.30.2004	6.05	0.3824700	CU M/MI	3332.500	CU M
SP6	Day 3	08.30.2004	6.1	0.3834000	CU M/MI	3334.280	CU M
SP6	Day 3	08.30.2004	6.15	0.3818500	CU M/MI	3336.023	CU M
SP6	Day 3	08.30.2004	6.2	0.3835900	CU M/MI	3337.803	CU M
SP6	Day 3	08.30.2004	6.25	0.3850100	CU M/MI	3339.583	CU M
SP6	Day 3	08.30.2004	6.3	0.3855700	CU M/MI	3341.364	CU M
SP6	Day 3	08.30.2004	6.35	0.3838500	CU M/MI	3343.182	CU M
SP6	Day 3	08.30.2004	6.4	0.3839400	CU M/MI	3344.962	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 3	08.30.2004	6.45	0.3863200	CU M/MI	3346.742	CU M
SP6	Day 3	08.30.2004	6.5	0.3863600	CU M/MI	3348.523	CU M
SP6	Day 3	08.30.2004	6.55	0.3876000	CU M/MI	3350.265	CU M
SP6	Day 3	08.30.2004	7	0.3881200	CU M/MI	3352.045	CU M
SP6	Day 3	08.30.2004	7.05	0.3846100	CU M/MI	3353.788	CU M
SP6	Day 3	08.30.2004	7.1	0.0303100	CU M/MI	3355.568	CU M
SP6	Day 3	08.30.2004	7.15	0.3857600	CU M/MI	3357.462	CU M
SP6	Day 3	08.30.2004	7.2	0.3839000	CU M/MI	3359.242	CU M
SP6	Day 3	08.30.2004	7.25	0.0043400	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	7.3	0.0013900	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	7.35	0.0014100	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	7.4	0.0014800	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	7.45	0.0013700	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	7.5	0.0011900	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	7.55	0.0013500	CU M/MI	3360.682	CU M
SP6	Day 3	08.30.2004	8	0.0011300	CU M/MI	3360.682	CU M
SP6	Day 3	08.30.2004	8.05	0.0010600	CU M/MI	3360.682	CU M
SP6	Day 3	08.30.2004	8.1	0.0010000	CU M/MI	3360.682	CU M
SP6	Day 3	08.30.2004	8.15	0.0013100	CU M/MI	3360.682	CU M
SP6	Day 3	08.30.2004	8.2	0.0012700	CU M/MI	3360.682	CU M
SP6	Day 3	08.30.2004	8.25	0.0010800	CU M/MI	3360.682	CU M
SP6	Day 3	08.30.2004	8.3	0.0007500	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	8.35	0.0004900	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	8.4	0.0004800	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	8.45	0.0003800	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	8.5	0.0005400	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	8.55	0.0000000	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	9	0.0005800	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	9.05	0.0001900	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	9.1	0.0003400	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	9.15	0.0000000	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	9.2	0.0003400	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	9.25	0.0000300	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	9.3	0.0000000	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	9.35	0.0000000	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	9.4	0.0000000	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	9.45	0.0000000	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	9.5	0.0000000	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	9.55	0.0000000	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	10	0.0000000	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	10.05	0.0000000	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	10.1	0.0000000	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	10.15	0.0000000	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	10.2	0.0000000	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	10.25	0.0000000	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	10.3	0.0000000	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	10.35	0.0000000	CU M/MI	3360.720	CU M
SP6	Day 3	08.30.2004	10.4	0.0000000	CU M/MI	3360.682	CU M
SP6	Day 3	08.30.2004	10.45	0.0000000	CU M/MI	3360.682	CU M
SP6	Day 3	08.30.2004	10.5	0.0000000	CU M/MI	3360.682	CU M
SP6	Day 3	08.30.2004	10.55	0.0000000	CU M/MI	3360.682	CU M
SP6	Day 3	08.30.2004	11	0.0000000	CU M/MI	3360.682	CU M
SP6	Day 3	08.30.2004	11.05	0.0000000	CU M/MI	3360.682	CU M
SP6	Day 3	08.30.2004	11.1	0.0000000	CU M/MI	3360.682	CU M
SP6	Day 3	08.30.2004	11.15	0.0000000	CU M/MI	3360.682	CU M
SP6	Day 3	08.30.2004	11.2	0.0000000	CU M/MI	3360.682	CU M
SP6	Day 3	08.30.2004	11.25	0.0000000	CU M/MI	3360.682	CU M
SP6	Day 3	08.30.2004	11.3	0.0000000	CU M/MI	3360.682	CU M
SP6	Day 3	08.30.2004	11.35	0.0000000	CU M/MI	3360.682	CU M

Appendix B
Raw Flow from Effluent (SP-6)
23 August Through 3 September 2004

Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 3	08.30.2004	11.4	0.0000000	CU M/MI	3360.682	CU M
SP6	Day 3	08.30.2004	11.45	0.0000000	CU M/MI	3360.682	CU M
SP6	Day 3	08.30.2004	11.5	0.0000000	CU M/MI	3360.682	CU M
SP6	Day 3	08.30.2004	11.55	0.0000000	CU M/MI	3360.682	CU M
SP6	Day 3	08.30.2004	12	0.0000000	CU M/MI	3360.682	CU M
SP6	Day 3	08.30.2004	12.05	0.0000000	CU M/MI	3360.682	CU M
SP6	Day 3	08.30.2004	12.1	0.0000000	CU M/MI	3360.682	CU M
SP6	Day 3	08.30.2004	12.15	0.0000000	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	12.2	0.0000000	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	12.25	0.0000000	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	12.3	0.0000000	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	12.35	0.0000000	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	12.4	0.0000000	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	12.45	0.0000000	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	12.5	0.0000000	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	12.55	0.0000000	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	13	0.0000000	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	13.05	0.0000000	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	13.1	0.0000000	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	13.15	0.0000000	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	13.2	0.0000000	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	13.25	0.0000000	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	13.3	0.0000000	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	13.35	0.0000000	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	13.4	0.0000000	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	13.45	0.0000000	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	13.5	0.0000000	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	13.55	0.0000000	CU M/MI	3360.644	CU M
SP6	Day 3	08.30.2004	14	0.0000000	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	14.05	0.0000000	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	14.1	0.0000000	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	14.15	0.0000000	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	14.2	0.0000000	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	14.25	0.0000000	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	14.3	0.0000000	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	14.35	0.0000000	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	14.4	0.0000000	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	14.45	0.0000000	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	14.5	0.0000000	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	14.55	0.0000000	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	15	0.0000000	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	15.05	0.0000000	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	15.1	0.0000000	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	15.15	0.0000000	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	15.2	0.0000200	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	15.25	0.0000000	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	15.3	0.0000000	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	15.35	0.0000800	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	15.4	0.0000000	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	15.45	0.0000300	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	15.5	0.0000000	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	15.55	0.0000000	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	16	0.0000000	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	16.05	0.0000000	CU M/MI	3360.606	CU M
SP6	Day 3	08.30.2004	16.1	0.0000500	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	16.15	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	16.2	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	16.25	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	16.3	0.0000000	CU M/MI	3360.568	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 3	08.30.2004	16.35	0.0000300	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	16.4	0.0000300	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	16.45	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	16.5	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	16.55	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	17	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	17.05	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	17.1	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	17.15	0.0001300	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	17.2	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	17.25	0.0002200	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	17.3	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	17.35	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	17.4	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	17.45	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	17.5	0.0000200	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	17.55	0.0000900	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	18	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	18.05	0.0002500	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	18.1	0.0003000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	18.15	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	18.2	0.0001500	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	18.25	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	18.3	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	18.35	0.0000800	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	18.55	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	19	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	19.05	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	19.1	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	19.15	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	19.2	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	19.25	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	19.3	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	19.35	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	19.4	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	19.45	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	19.5	0.0001200	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	19.55	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	20	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	20.05	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	20.1	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	20.15	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	20.2	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	20.25	0.0000000	CU M/MI	3360.568	CU M
SP6	Day 3	08.30.2004	20.3	0.0000000	CU M/MI	3360.530	CU M
SP6	Day 3	08.30.2004	20.35	0.0001100	CU M/MI	3360.530	CU M
SP6	Day 3	08.30.2004	20.4	0.0000000	CU M/MI	3360.530	CU M
SP6	Day 3	08.30.2004	20.45	0.0001400	CU M/MI	3360.530	CU M
SP6	Day 3	08.30.2004	20.5	0.0000000	CU M/MI	3360.530	CU M
SP6	Day 3	08.30.2004	20.55	0.0000000	CU M/MI	3360.530	CU M
SP6	Day 3	08.30.2004	21	0.0000000	CU M/MI	3360.530	CU M
SP6	Day 3	08.30.2004	21.05	0.0001000	CU M/MI	3360.530	CU M
SP6	Day 3	08.30.2004	21.1	0.0000000	CU M/MI	3360.530	CU M
SP6	Day 3	08.30.2004	21.15	0.0000000	CU M/MI	3360.530	CU M
SP6	Day 3	08.30.2004	21.2	0.3797100	CU M/MI	3361.098	CU M
SP6	Day 3	08.30.2004	21.25	0.3810900	CU M/MI	3362.462	CU M
SP6	Day 3	08.30.2004	21.3	0.3801800	CU M/MI	3364.091	CU M
SP6	Day 3	08.30.2004	21.35	0.3698600	CU M/MI	3365.682	CU M
SP6	Day 3	08.30.2004	21.4	0.3794200	CU M/MI	3367.424	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 3	08.30.2004	21.45	0.3780600	CU M/MI	3369.015	CU M
SP6	Day 3	08.30.2004	21.5	0.3790900	CU M/MI	3370.568	CU M
SP6	Day 3	08.30.2004	21.55	0.0000000	CU M/MI	3372.273	CU M
SP6	Day 3	08.30.2004	22	0.3805800	CU M/MI	3373.939	CU M
SP6	Day 3	08.30.2004	22.05	0.3799300	CU M/MI	3375.530	CU M
SP6	Day 3	08.30.2004	22.1	0.3607300	CU M/MI	3377.121	CU M
SP6	Day 3	08.30.2004	22.15	0.3786200	CU M/MI	3378.864	CU M
SP6	Day 3	08.30.2004	22.2	0.3809100	CU M/MI	3380.492	CU M
SP6	Day 3	08.30.2004	22.25	0.3760600	CU M/MI	3382.083	CU M
SP6	Day 3	08.30.2004	22.3	0.0364000	CU M/MI	3383.788	CU M
SP6	Day 3	08.30.2004	22.35	0.3802900	CU M/MI	3385.455	CU M
SP6	Day 3	08.30.2004	22.4	0.3795000	CU M/MI	3387.045	CU M
SP6	Day 3	08.30.2004	22.45	0.3476100	CU M/MI	3388.636	CU M
SP6	Day 3	08.30.2004	22.5	0.3782200	CU M/MI	3390.379	CU M
SP6	Day 3	08.30.2004	22.55	0.3787900	CU M/MI	3391.970	CU M
SP6	Day 3	08.30.2004	23	0.3745700	CU M/MI	3393.561	CU M
SP6	Day 3	08.30.2004	23.05	0.0498000	CU M/MI	3395.341	CU M
SP6	Day 3	08.30.2004	23.1	0.3828500	CU M/MI	3396.932	CU M
SP6	Day 3	08.30.2004	23.15	0.3864900	CU M/MI	3398.523	CU M
SP6	Day 3	08.30.2004	23.2	0.3570600	CU M/MI	3400.152	CU M
SP6	Day 3	08.30.2004	23.25	0.3810800	CU M/MI	3401.894	CU M
SP6	Day 3	08.30.2004	23.3	0.3827200	CU M/MI	3403.523	CU M
SP6	Day 3	08.30.2004	23.35	0.4765400	CU M/MI	3405.038	CU M
SP6	Day 3	08.30.2004	23.4	0.0032500	CU M/MI	3406.705	CU M
SP6	Day 3	08.30.2004	23.45	0.4771400	CU M/MI	3408.561	CU M
SP6	Day 3	08.30.2004	23.5	0.4737000	CU M/MI	3410.114	CU M
SP6	Day 3	08.30.2004	23.55	0.4520000	CU M/MI	3411.629	CU M
SP6	Day 3	08.31.2004	0	0.0208900	CU M/MI	3413.485	CU M
SP6	Day 3	08.31.2004	0.05	0.4787600	CU M/MI	3415.152	CU M
SP6	Day 3	08.31.2004	0.1	0.4742700	CU M/MI	3416.667	CU M
SP6	Day 3	08.31.2004	0.15	0.0049600	CU M/MI	3418.371	CU M
SP6	Day 3	08.31.2004	0.2	0.4779300	CU M/MI	3420.152	CU M
SP6	Day 3	08.31.2004	0.25	0.4748900	CU M/MI	3421.705	CU M
SP6	Day 3	08.31.2004	0.3	0.4312800	CU M/MI	3423.258	CU M
SP6	Day 3	08.31.2004	0.35	0.0305900	CU M/MI	3425.152	CU M
SP6	Day 3	08.31.2004	0.4	0.4786800	CU M/MI	3426.742	CU M
SP6	Day 3	08.31.2004	0.45	0.4698100	CU M/MI	3428.295	CU M
SP6	Day 3	08.31.2004	0.5	0.0088400	CU M/MI	3430.038	CU M
SP6	Day 3	08.31.2004	0.55	0.4772300	CU M/MI	3431.780	CU M
SP6	Day 3	08.31.2004	1	0.4743200	CU M/MI	3433.295	CU M
SP6	Day 3	08.31.2004	1.05	0.0024500	CU M/MI	3434.848	CU M
SP6	Day 3	08.31.2004	1.1	0.4767300	CU M/MI	3436.742	CU M
SP6	Day 3	08.31.2004	1.15	0.4761900	CU M/MI	3438.295	CU M
SP6	Day 3	08.31.2004	1.2	0.4648800	CU M/MI	3439.848	CU M
SP6	Day 3	08.31.2004	1.25	0.0077600	CU M/MI	3441.667	CU M
SP6	Day 3	08.31.2004	1.3	0.4789800	CU M/MI	3443.523	CU M
SP6	Day 3	08.31.2004	1.35	0.4786500	CU M/MI	3445.152	CU M
SP6	Day 3	08.31.2004	1.4	0.4738700	CU M/MI	3446.818	CU M
SP6	Day 3	08.31.2004	1.45	0.0037800	CU M/MI	3448.561	CU M
SP6	Day 3	08.31.2004	1.5	0.0433000	CU M/MI	3450.492	CU M
SP6	Day 3	08.31.2004	1.55	0.4762200	CU M/MI	3452.159	CU M
SP6	Day 3	08.31.2004	2	0.4757500	CU M/MI	3453.826	CU M
SP6	Day 3	08.31.2004	2.05	0.5019500	CU M/MI	3455.492	CU M
SP6	Day 3	08.31.2004	2.1	0.0234600	CU M/MI	3457.386	CU M
SP6	Day 3	08.31.2004	2.15	0.4782500	CU M/MI	3459.167	CU M
SP6	Day 3	08.31.2004	2.2	0.4797300	CU M/MI	3460.795	CU M
SP6	Day 3	08.31.2004	2.25	0.4711000	CU M/MI	3462.462	CU M
SP6	Day 3	08.31.2004	2.3	0.0000000	CU M/MI	3464.242	CU M
SP6	Day 3	08.31.2004	2.35	0.4796900	CU M/MI	3466.136	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 3	08.31.2004	2.4	0.4799400	CU M/MI	3467.765	CU M
SP6	Day 3	08.31.2004	2.45	0.4774200	CU M/MI	3469.394	CU M
SP6	Day 3	08.31.2004	2.5	0.0000000	CU M/MI	3471.061	CU M
SP6	Day 3	08.31.2004	2.55	0.0293400	CU M/MI	3473.030	CU M
SP6	Day 3	08.31.2004	3	0.4806700	CU M/MI	3474.659	CU M
SP6	Day 3	08.31.2004	3.05	0.4809500	CU M/MI	3476.326	CU M
SP6	Day 3	08.31.2004	3.1	0.4563500	CU M/MI	3477.955	CU M
SP6	Day 3	08.31.2004	3.15	0.0300200	CU M/MI	3479.886	CU M
SP6	Day 3	08.31.2004	3.2	0.4833900	CU M/MI	3481.667	CU M
SP6	Day 3	08.31.2004	3.25	0.4813900	CU M/MI	3483.295	CU M
SP6	Day 3	08.31.2004	3.3	0.4685300	CU M/MI	3484.962	CU M
SP6	Day 3	08.31.2004	3.35	0.0061800	CU M/MI	3486.780	CU M
SP6	Day 3	08.31.2004	3.4	0.4814600	CU M/MI	3488.636	CU M
SP6	Day 3	08.31.2004	3.45	0.4812700	CU M/MI	3490.265	CU M
SP6	Day 3	08.31.2004	3.5	0.4754800	CU M/MI	3491.894	CU M
SP6	Day 3	08.31.2004	3.55	0.0000000	CU M/MI	3493.674	CU M
SP6	Day 3	08.31.2004	4	0.4807000	CU M/MI	3495.530	CU M
SP6	Day 3	08.31.2004	4.05	0.4806100	CU M/MI	3497.197	CU M
SP6	Day 3	08.31.2004	4.1	0.4770600	CU M/MI	3498.826	CU M
SP6	Day 3	08.31.2004	4.15	0.0037500	CU M/MI	3500.530	CU M
SP6	Day 3	08.31.2004	4.2	0.0492600	CU M/MI	3502.500	CU M
SP6	Day 3	08.31.2004	4.25	0.4837300	CU M/MI	3504.129	CU M
SP6	Day 3	08.31.2004	4.3	0.0000000	CU M/MI	3505.682	CU M
SP6	Day 3	08.31.2004	4.35	0.0000000	CU M/MI	3507.424	CU M
SP6	Day 3	08.31.2004	4.4	0.3866900	CU M/MI	3509.318	CU M
SP6	Day 3	08.31.2004	4.45	0.3877400	CU M/MI	3511.023	CU M
SP6	Day 3	08.31.2004	4.5	0.3906900	CU M/MI	3512.689	CU M
SP6	Day 3	08.31.2004	4.55	0.3923100	CU M/MI	3514.394	CU M
SP6	Day 3	08.31.2004	5	0.3911900	CU M/MI	3516.061	CU M
SP6	Day 3	08.31.2004	5.05	0.3911700	CU M/MI	3517.765	CU M
SP6	Day 3	08.31.2004	5.1	0.3898600	CU M/MI	3519.432	CU M
SP6	Day 3	08.31.2004	5.15	0.0123400	CU M/MI	3521.098	CU M
SP6	Day 3	08.31.2004	5.2	0.0384000	CU M/MI	3523.030	CU M
SP6	Day 3	08.31.2004	5.25	0.3950700	CU M/MI	3524.735	CU M
SP6	Day 3	08.31.2004	5.3	0.3916800	CU M/MI	3526.402	CU M
SP6	Day 3	08.31.2004	5.35	0.3931600	CU M/MI	3528.106	CU M
SP6	Day 3	08.31.2004	5.4	0.3921000	CU M/MI	3529.773	CU M
SP6	Day 3	08.31.2004	5.45	0.3882100	CU M/MI	3531.439	CU M
SP6	Day 3	08.31.2004	5.5	0.3870900	CU M/MI	3533.106	CU M
SP6	Day 3	08.31.2004	5.55	0.0052800	CU M/MI	3534.848	CU M
SP6	Day 4	08.31.2004	6	0.3880500	CU M/MI	3536.705	CU M
SP6	Day 4	08.31.2004	6.05	0.3904600	CU M/MI	3538.371	CU M
SP6	Day 4	08.31.2004	6.1	0.3901400	CU M/MI	3540.038	CU M
SP6	Day 4	08.31.2004	6.15	0.3902100	CU M/MI	3541.667	CU M
SP6	Day 4	08.31.2004	6.2	0.3924200	CU M/MI	3543.295	CU M
SP6	Day 4	08.31.2004	6.25	0.3929100	CU M/MI	3544.924	CU M
SP6	Day 4	08.31.2004	6.3	0.0026100	CU M/MI	3546.591	CU M
SP6	Day 4	08.31.2004	6.35	0.0426000	CU M/MI	3548.523	CU M
SP6	Day 4	08.31.2004	6.4	0.3919500	CU M/MI	3550.114	CU M
SP6	Day 4	08.31.2004	6.45	0.3895600	CU M/MI	3551.742	CU M
SP6	Day 4	08.31.2004	6.5	0.3889300	CU M/MI	3553.333	CU M
SP6	Day 4	08.31.2004	6.55	0.3896800	CU M/MI	3554.962	CU M
SP6	Day 4	08.31.2004	7	0.3907900	CU M/MI	3556.515	CU M
SP6	Day 4	08.31.2004	7.05	0.0202200	CU M/MI	3558.220	CU M
SP6	Day 4	08.31.2004	7.1	0.3895500	CU M/MI	3559.848	CU M
SP6	Day 4	08.31.2004	7.15	0.3886400	CU M/MI	3561.402	CU M
SP6	Day 4	08.31.2004	7.2	0.0050900	CU M/MI	3562.992	CU M
SP6	Day 4	08.31.2004	7.25	0.3890100	CU M/MI	3564.697	CU M
SP6	Day 4	08.31.2004	7.3	0.3897100	CU M/MI	3566.250	CU M

Appendix B
Raw Flow from Effluent (SP-6)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 4	08.31.2004	7.35	0.3559800	CU M/MI	3567.803	CU M
SP6	Day 4	08.31.2004	7.4	0.3892000	CU M/MI	3569.545	CU M
SP6	Day 4	08.31.2004	7.45	0.3903700	CU M/MI	3571.098	CU M
SP6	Day 4	08.31.2004	7.5	0.3444900	CU M/MI	3572.614	CU M
SP6	Day 4	08.31.2004	7.55	0.3889700	CU M/MI	3574.356	CU M
SP6	Day 4	08.31.2004	8	0.3894800	CU M/MI	3575.871	CU M
SP6	Day 4	08.31.2004	8.05	0.0000000	CU M/MI	3577.424	CU M
SP6	Day 4	08.31.2004	8.1	0.3905900	CU M/MI	3578.977	CU M
SP6	Day 4	08.31.2004	8.15	0.3906500	CU M/MI	3580.227	CU M
SP6	Day 4	08.31.2004	8.2	0.3888400	CU M/MI	3581.856	CU M
SP6	Day 4	08.31.2004	8.25	0.0080100	CU M/MI	3583.485	CU M
SP6	Day 4	08.31.2004	8.3	0.3895400	CU M/MI	3585.189	CU M
SP6	Day 4	08.31.2004	8.35	0.3893300	CU M/MI	3586.780	CU M
SP6	Day 4	08.31.2004	8.4	0.3484400	CU M/MI	3588.371	CU M
SP6	Day 4	08.31.2004	8.45	0.3899900	CU M/MI	3590.152	CU M
SP6	Day 4	08.31.2004	8.5	0.3910800	CU M/MI	3591.742	CU M
SP6	Day 4	08.31.2004	8.55	0.3870500	CU M/MI	3593.371	CU M
SP6	Day 4	08.31.2004	9	0.0150800	CU M/MI	3595.076	CU M
SP6	Day 4	08.31.2004	9.05	0.3904700	CU M/MI	3596.818	CU M
SP6	Day 4	08.31.2004	9.1	0.3900300	CU M/MI	3598.447	CU M
SP6	Day 4	08.31.2004	9.15	0.3886600	CU M/MI	3600.114	CU M
SP6	Day 4	08.31.2004	9.2	0.0134500	CU M/MI	3601.818	CU M
SP6	Day 4	08.31.2004	9.25	0.3907800	CU M/MI	3603.561	CU M
SP6	Day 4	08.31.2004	9.3	0.3921000	CU M/MI	3605.227	CU M
SP6	Day 4	08.31.2004	9.35	0.3921500	CU M/MI	3606.894	CU M
SP6	Day 4	08.31.2004	9.4	0.3597400	CU M/MI	3608.561	CU M
SP6	Day 4	08.31.2004	9.45	0.3907000	CU M/MI	3610.379	CU M
SP6	Day 4	08.31.2004	9.5	0.3927800	CU M/MI	3612.045	CU M
SP6	Day 4	08.31.2004	9.55	0.3921700	CU M/MI	3613.864	CU M
SP6	Day 4	08.31.2004	10	0.3916500	CU M/MI	3615.492	CU M
SP6	Day 4	08.31.2004	10.05	0.3919000	CU M/MI	3617.159	CU M
SP6	Day 4	08.31.2004	10.1	0.3947000	CU M/MI	3618.826	CU M
SP6	Day 4	08.31.2004	10.15	0.3946100	CU M/MI	3620.492	CU M
SP6	Day 4	08.31.2004	10.2	0.3909600	CU M/MI	3622.159	CU M
SP6	Day 4	08.31.2004	10.25	0.3396800	CU M/MI	3623.826	CU M
SP6	Day 4	08.31.2004	10.3	0.0208800	CU M/MI	3625.758	CU M
SP6	Day 4	08.31.2004	10.35	0.3949000	CU M/MI	3627.500	CU M
SP6	Day 4	08.31.2004	10.4	0.3938600	CU M/MI	3629.167	CU M
SP6	Day 4	08.31.2004	10.45	0.3948700	CU M/MI	3630.833	CU M
SP6	Day 4	08.31.2004	10.5	0.3932300	CU M/MI	3632.500	CU M
SP6	Day 4	08.31.2004	10.55	0.3937600	CU M/MI	3634.167	CU M
SP6	Day 4	08.31.2004	11	0.3941000	CU M/MI	3635.833	CU M
SP6	Day 4	08.31.2004	11.05	0.3924800	CU M/MI	3637.500	CU M
SP6	Day 4	08.31.2004	11.1	0.3490300	CU M/MI	3639.167	CU M
SP6	Day 4	08.31.2004	11.15	0.0187600	CU M/MI	3641.061	CU M
SP6	Day 4	08.31.2004	11.2	0.3924800	CU M/MI	3642.803	CU M
SP6	Day 4	08.31.2004	11.25	0.3921200	CU M/MI	3644.394	CU M
SP6	Day 4	08.31.2004	11.3	0.3917900	CU M/MI	3646.023	CU M
SP6	Day 4	08.31.2004	11.35	0.3930300	CU M/MI	3647.652	CU M
SP6	Day 4	08.31.2004	11.4	0.3960200	CU M/MI	3649.318	CU M
SP6	Day 4	08.31.2004	11.45	0.3889600	CU M/MI	3650.947	CU M
SP6	Day 4	08.31.2004	11.5	0.0407900	CU M/MI	3652.727	CU M
SP6	Day 4	08.31.2004	11.55	0.3951300	CU M/MI	3654.394	CU M
SP6	Day 4	08.31.2004	12	0.3961100	CU M/MI	3656.023	CU M
SP6	Day 4	08.31.2004	12.05	0.3820000	CU M/MI	3657.652	CU M
SP6	Day 4	08.31.2004	12.1	0.3944700	CU M/MI	3659.432	CU M
SP6	Day 4	08.31.2004	12.15	0.3952400	CU M/MI	3661.061	CU M
SP6	Day 4	08.31.2004	12.2	0.3960200	CU M/MI	3662.689	CU M
SP6	Day 4	08.31.2004	12.25	0.3566100	CU M/MI	3664.356	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 4	08.31.2004	12.3	0.3946900	CU M/MI	3666.136	CU M
SP6	Day 4	08.31.2004	12.35	0.3954400	CU M/MI	3667.765	CU M
SP6	Day 4	08.31.2004	12.4	0.3939800	CU M/MI	3669.394	CU M
SP6	Day 4	08.31.2004	12.45	0.0122600	CU M/MI	3671.098	CU M
SP6	Day 4	08.31.2004	12.5	0.3941500	CU M/MI	3672.841	CU M
SP6	Day 4	08.31.2004	12.55	0.3954900	CU M/MI	3674.470	CU M
SP6	Day 4	08.31.2004	13	0.3881200	CU M/MI	3676.098	CU M
SP6	Day 4	08.31.2004	13.05	0.0676000	CU M/MI	3677.917	CU M
SP6	Day 4	08.31.2004	13.1	0.3950300	CU M/MI	3679.508	CU M
SP6	Day 4	08.31.2004	13.15	0.3958400	CU M/MI	3681.174	CU M
SP6	Day 4	08.31.2004	13.2	0.3623400	CU M/MI	3682.803	CU M
SP6	Day 4	08.31.2004	13.25	0.3946500	CU M/MI	3684.583	CU M
SP6	Day 4	08.31.2004	13.3	0.3966500	CU M/MI	3686.212	CU M
SP6	Day 4	08.31.2004	13.35	0.3946900	CU M/MI	3687.841	CU M
SP6	Day 4	08.31.2004	13.4	0.0105400	CU M/MI	3689.545	CU M
SP6	Day 4	08.31.2004	13.45	0.3961600	CU M/MI	3691.288	CU M
SP6	Day 4	08.31.2004	13.5	0.3948600	CU M/MI	3692.917	CU M
SP6	Day 4	08.31.2004	13.55	0.3926100	CU M/MI	3694.545	CU M
SP6	Day 4	08.31.2004	14	0.0301400	CU M/MI	3696.326	CU M
SP6	Day 4	08.31.2004	14.05	0.3950300	CU M/MI	3697.992	CU M
SP6	Day 4	08.31.2004	14.1	0.3968800	CU M/MI	3699.583	CU M
SP6	Day 4	08.31.2004	14.15	0.3808400	CU M/MI	3701.250	CU M
SP6	Day 4	08.31.2004	14.2	0.3959500	CU M/MI	3703.030	CU M
SP6	Day 4	08.31.2004	14.25	0.3976500	CU M/MI	3704.659	CU M
SP6	Day 4	08.31.2004	14.3	0.3973700	CU M/MI	3706.288	CU M
SP6	Day 4	08.31.2004	14.35	0.0088000	CU M/MI	3707.955	CU M
SP6	Day 4	08.31.2004	14.4	0.3958200	CU M/MI	3709.735	CU M
SP6	Day 4	08.31.2004	14.45	0.3966300	CU M/MI	3711.364	CU M
SP6	Day 4	08.31.2004	14.5	0.3927400	CU M/MI	3712.992	CU M
SP6	Day 4	08.31.2004	14.55	0.0261600	CU M/MI	3714.773	CU M
SP6	Day 4	08.31.2004	15	0.3954700	CU M/MI	3716.439	CU M
SP6	Day 4	08.31.2004	15.05	0.3970600	CU M/MI	3718.068	CU M
SP6	Day 4	08.31.2004	15.1	0.3745200	CU M/MI	3719.697	CU M
SP6	Day 4	08.31.2004	15.15	0.3960300	CU M/MI	3721.515	CU M
SP6	Day 4	08.31.2004	15.2	0.3966300	CU M/MI	3723.144	CU M
SP6	Day 4	08.31.2004	15.25	0.3953400	CU M/MI	3724.773	CU M
SP6	Day 4	08.31.2004	15.3	0.0138300	CU M/MI	3726.477	CU M
SP6	Day 4	08.31.2004	15.35	0.3954500	CU M/MI	3728.182	CU M
SP6	Day 4	08.31.2004	15.4	0.3962500	CU M/MI	3729.811	CU M
SP6	Day 4	08.31.2004	15.45	0.3827100	CU M/MI	3731.439	CU M
SP6	Day 4	08.31.2004	15.5	0.3950400	CU M/MI	3733.258	CU M
SP6	Day 4	08.31.2004	15.55	0.3958500	CU M/MI	3734.848	CU M
SP6	Day 4	08.31.2004	16	0.3942500	CU M/MI	3736.477	CU M
SP6	Day 4	08.31.2004	16.05	0.0132200	CU M/MI	3738.144	CU M
SP6	Day 4	08.31.2004	16.1	0.3952600	CU M/MI	3739.886	CU M
SP6	Day 4	08.31.2004	16.15	0.3963700	CU M/MI	3741.515	CU M
SP6	Day 4	08.31.2004	16.2	0.3923100	CU M/MI	3743.220	CU M
SP6	Day 4	08.31.2004	16.25	0.3596800	CU M/MI	3744.962	CU M
SP6	Day 4	08.31.2004	16.3	0.0361700	CU M/MI	3746.932	CU M
SP6	Day 4	08.31.2004	16.35	0.3954500	CU M/MI	3748.750	CU M
SP6	Day 4	08.31.2004	16.4	0.3969300	CU M/MI	3750.530	CU M
SP6	Day 4	08.31.2004	16.45	0.3966500	CU M/MI	3752.386	CU M
SP6	Day 4	08.31.2004	16.5	0.0028100	CU M/MI	3753.902	CU M
SP6	Day 4	08.31.2004	16.55	0.0018300	CU M/MI	3754.924	CU M
SP6	Day 4	08.31.2004	17	0.3954000	CU M/MI	3756.023	CU M
SP6	Day 4	08.31.2004	17.05	0.3948800	CU M/MI	3757.197	CU M
SP6	Day 4	08.31.2004	17.1	0.0381600	CU M/MI	3758.333	CU M
SP6	Day 4	08.31.2004	17.15	0.0035600	CU M/MI	3759.205	CU M
SP6	Day 4	08.31.2004	17.2	0.0023500	CU M/MI	3760.076	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 4	08.31.2004	17.25	0.3882000	CU M/MI	3761.098	CU M
SP6	Day 4	08.31.2004	17.3	0.3940600	CU M/MI	3762.273	CU M
SP6	Day 4	08.31.2004	17.35	0.3935000	CU M/MI	3763.447	CU M
SP6	Day 4	08.31.2004	17.4	0.0034800	CU M/MI	3764.356	CU M
SP6	Day 4	08.31.2004	17.45	0.0021100	CU M/MI	3765.227	CU M
SP6	Day 4	08.31.2004	17.5	0.3940500	CU M/MI	3766.970	CU M
SP6	Day 4	08.31.2004	17.55	0.3961500	CU M/MI	3768.712	CU M
SP6	Day 4	08.31.2004	18	0.3895200	CU M/MI	3770.530	CU M
SP6	Day 4	08.31.2004	18.05	0.0086200	CU M/MI	3772.348	CU M
SP6	Day 4	08.31.2004	18.1	0.3917300	CU M/MI	3774.242	CU M
SP6	Day 4	08.31.2004	18.15	0.3926400	CU M/MI	3776.023	CU M
SP6	Day 4	08.31.2004	18.2	0.3926000	CU M/MI	3777.803	CU M
SP6	Day 4	08.31.2004	18.25	0.3946400	CU M/MI	3779.583	CU M
SP6	Day 4	08.31.2004	18.3	0.3937600	CU M/MI	3781.326	CU M
SP6	Day 4	08.31.2004	18.35	0.3932400	CU M/MI	3783.144	CU M
SP6	Day 4	08.31.2004	18.4	0.3939200	CU M/MI	3784.886	CU M
SP6	Day 4	08.31.2004	18.45	0.3943500	CU M/MI	3786.705	CU M
SP6	Day 4	08.31.2004	18.5	0.3799600	CU M/MI	3788.485	CU M
SP6	Day 4	08.31.2004	18.55	0.0326000	CU M/MI	3790.417	CU M
SP6	Day 4	08.31.2004	19	0.3943800	CU M/MI	3792.235	CU M
SP6	Day 4	08.31.2004	19.2	0.3952100	CU M/MI	3799.356	CU M
SP6	Day 4	08.31.2004	19.25	0.3945900	CU M/MI	3801.136	CU M
SP6	Day 4	08.31.2004	19.3	0.3951400	CU M/MI	3802.917	CU M
SP6	Day 4	08.31.2004	19.35	0.3962800	CU M/MI	3804.697	CU M
SP6	Day 4	08.31.2004	19.4	0.3860200	CU M/MI	3806.477	CU M
SP6	Day 4	08.31.2004	19.45	0.0000000	CU M/MI	3808.333	CU M
SP6	Day 4	08.31.2004	19.5	0.3938000	CU M/MI	3810.227	CU M
SP6	Day 4	08.31.2004	19.55	0.3960900	CU M/MI	3812.008	CU M
SP6	Day 4	08.31.2004	20	0.3975300	CU M/MI	3813.788	CU M
SP6	Day 4	08.31.2004	20.05	0.3966800	CU M/MI	3815.568	CU M
SP6	Day 4	08.31.2004	20.1	0.3930400	CU M/MI	3817.348	CU M
SP6	Day 4	08.31.2004	20.15	0.3936300	CU M/MI	3819.129	CU M
SP6	Day 4	08.31.2004	20.2	0.3950300	CU M/MI	3820.909	CU M
SP6	Day 4	08.31.2004	20.25	0.3989300	CU M/MI	3822.689	CU M
SP6	Day 4	08.31.2004	20.3	0.3886000	CU M/MI	3824.470	CU M
SP6	Day 4	08.31.2004	20.35	0.0072800	CU M/MI	3826.288	CU M
SP6	Day 4	08.31.2004	20.4	0.3958700	CU M/MI	3828.258	CU M
SP6	Day 4	08.31.2004	20.45	0.3916700	CU M/MI	3830.038	CU M
SP6	Day 4	08.31.2004	20.5	0.3900800	CU M/MI	3831.780	CU M
SP6	Day 4	08.31.2004	20.55	0.3901200	CU M/MI	3833.561	CU M
SP6	Day 4	08.31.2004	21	0.3890000	CU M/MI	3835.341	CU M
SP6	Day 4	08.31.2004	21.05	0.3882000	CU M/MI	3837.121	CU M
SP6	Day 4	08.31.2004	21.1	0.3887000	CU M/MI	3838.902	CU M
SP6	Day 4	08.31.2004	21.15	0.3897500	CU M/MI	3840.682	CU M
SP6	Day 4	08.31.2004	21.2	0.3907900	CU M/MI	3842.386	CU M
SP6	Day 4	08.31.2004	21.25	0.0047300	CU M/MI	3844.167	CU M
SP6	Day 4	08.31.2004	21.3	0.3889000	CU M/MI	3846.098	CU M
SP6	Day 4	08.31.2004	21.35	0.3879800	CU M/MI	3847.841	CU M
SP6	Day 4	08.31.2004	21.4	0.3893500	CU M/MI	3849.583	CU M
SP6	Day 4	08.31.2004	21.45	0.3894600	CU M/MI	3851.288	CU M
SP6	Day 4	08.31.2004	21.5	0.3888400	CU M/MI	3853.030	CU M
SP6	Day 4	08.31.2004	21.55	0.3879500	CU M/MI	3854.773	CU M
SP6	Day 4	08.31.2004	22	0.3917900	CU M/MI	3856.477	CU M
SP6	Day 4	08.31.2004	22.05	0.3907000	CU M/MI	3858.220	CU M
SP6	Day 4	08.31.2004	22.1	0.3614200	CU M/MI	3859.962	CU M
SP6	Day 4	08.31.2004	22.15	0.0388700	CU M/MI	3861.894	CU M
SP6	Day 4	08.31.2004	22.2	0.3916900	CU M/MI	3863.333	CU M
SP6	Day 4	08.31.2004	22.25	0.3558400	CU M/MI	3865.038	CU M
SP6	Day 4	08.31.2004	22.3	0.0443400	CU M/MI	3866.970	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 4	08.31.2004	22.35	0.3895900	CU M/MI	3868.712	CU M
SP6	Day 4	08.31.2004	22.4	0.3930200	CU M/MI	3870.417	CU M
SP6	Day 4	08.31.2004	22.45	0.3909400	CU M/MI	3872.121	CU M
SP6	Day 4	08.31.2004	22.5	0.3915900	CU M/MI	3873.826	CU M
SP6	Day 4	08.31.2004	22.55	0.3928600	CU M/MI	3875.568	CU M
SP6	Day 4	08.31.2004	23	0.3921700	CU M/MI	3877.273	CU M
SP6	Day 4	08.31.2004	23.05	0.3905900	CU M/MI	3878.977	CU M
SP6	Day 4	08.31.2004	23.1	0.3326400	CU M/MI	3880.682	CU M
SP6	Day 4	08.31.2004	23.15	0.0347700	CU M/MI	3882.614	CU M
SP6	Day 4	08.31.2004	23.2	0.3926600	CU M/MI	3883.826	CU M
SP6	Day 4	08.31.2004	23.25	0.3921800	CU M/MI	3885.492	CU M
SP6	Day 4	08.31.2004	23.3	0.3923100	CU M/MI	3887.311	CU M
SP6	Day 4	08.31.2004	23.35	0.3909100	CU M/MI	3888.977	CU M
SP6	Day 4	08.31.2004	23.4	0.3923000	CU M/MI	3890.682	CU M
SP6	Day 4	08.31.2004	23.45	0.3934200	CU M/MI	3892.386	CU M
SP6	Day 4	08.31.2004	23.5	0.3905700	CU M/MI	3894.091	CU M
SP6	Day 4	08.31.2004	23.55	0.3003000	CU M/MI	3895.795	CU M
SP6	Day 4	09.01.2004	0	0.0508600	CU M/MI	3897.727	CU M
SP6	Day 4	09.01.2004	0.05	0.3936700	CU M/MI	3899.470	CU M
SP6	Day 4	09.01.2004	0.1	0.3934200	CU M/MI	3901.136	CU M
SP6	Day 4	09.01.2004	0.15	0.3916500	CU M/MI	3902.841	CU M
SP6	Day 4	09.01.2004	0.2	0.3923100	CU M/MI	3904.545	CU M
SP6	Day 4	09.01.2004	0.25	0.3920400	CU M/MI	3906.250	CU M
SP6	Day 4	09.01.2004	0.3	0.3927500	CU M/MI	3907.917	CU M
SP6	Day 4	09.01.2004	0.35	0.3892300	CU M/MI	3909.659	CU M
SP6	Day 4	09.01.2004	0.4	0.0039400	CU M/MI	3911.364	CU M
SP6	Day 4	09.01.2004	0.45	0.0416900	CU M/MI	3913.295	CU M
SP6	Day 4	09.01.2004	0.5	0.3926700	CU M/MI	3915.000	CU M
SP6	Day 4	09.01.2004	0.55	0.3912200	CU M/MI	3916.667	CU M
SP6	Day 4	09.01.2004	1	0.3914300	CU M/MI	3918.371	CU M
SP6	Day 4	09.01.2004	1.05	0.3901600	CU M/MI	3920.076	CU M
SP6	Day 4	09.01.2004	1.1	0.3920100	CU M/MI	3921.780	CU M
SP6	Day 4	09.01.2004	1.15	0.3922900	CU M/MI	3923.447	CU M
SP6	Day 4	09.01.2004	1.2	0.3879100	CU M/MI	3925.152	CU M
SP6	Day 4	09.01.2004	1.25	0.0049300	CU M/MI	3926.932	CU M
SP6	Day 4	09.01.2004	1.3	0.3907200	CU M/MI	3928.826	CU M
SP6	Day 4	09.01.2004	1.35	0.3920100	CU M/MI	3930.492	CU M
SP6	Day 4	09.01.2004	1.4	0.3917800	CU M/MI	3932.197	CU M
SP6	Day 4	09.01.2004	1.45	0.3931800	CU M/MI	3933.864	CU M
SP6	Day 4	09.01.2004	1.5	0.3908800	CU M/MI	3935.568	CU M
SP6	Day 4	09.01.2004	1.55	0.3902500	CU M/MI	3937.235	CU M
SP6	Day 4	09.01.2004	2	0.3904400	CU M/MI	3938.939	CU M
SP6	Day 4	09.01.2004	2.05	0.3802100	CU M/MI	3940.644	CU M
SP6	Day 4	09.01.2004	2.1	0.0081400	CU M/MI	3942.424	CU M
SP6	Day 4	09.01.2004	2.15	0.3900800	CU M/MI	3944.280	CU M
SP6	Day 4	09.01.2004	2.2	0.3892900	CU M/MI	3945.947	CU M
SP6	Day 4	09.01.2004	2.25	0.3906300	CU M/MI	3947.652	CU M
SP6	Day 4	09.01.2004	2.3	0.3897500	CU M/MI	3949.318	CU M
SP6	Day 4	09.01.2004	2.35	0.3901800	CU M/MI	3951.023	CU M
SP6	Day 4	09.01.2004	2.4	0.3926400	CU M/MI	3952.689	CU M
SP6	Day 4	09.01.2004	2.45	0.3916000	CU M/MI	3954.394	CU M
SP6	Day 4	09.01.2004	2.5	0.3718800	CU M/MI	3956.061	CU M
SP6	Day 4	09.01.2004	2.55	0.0143200	CU M/MI	3957.955	CU M
SP6	Day 4	09.01.2004	3	0.3902700	CU M/MI	3959.697	CU M
SP6	Day 4	09.01.2004	3.05	0.3916000	CU M/MI	3961.402	CU M
SP6	Day 4	09.01.2004	3.1	0.3926100	CU M/MI	3963.068	CU M
SP6	Day 4	09.01.2004	3.15	0.3909100	CU M/MI	3964.735	CU M
SP6	Day 4	09.01.2004	3.2	0.3922200	CU M/MI	3966.364	CU M
SP6	Day 4	09.01.2004	3.25	0.3950200	CU M/MI	3968.030	CU M

Appendix B
Raw Flow from Effluent (SP-6)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 4	09.01.2004	3.3	0.3602800	CU M/MI	3969.697	CU M
SP6	Day 4	09.01.2004	3.35	0.3886300	CU M/MI	3971.515	CU M
SP6	Day 4	09.01.2004	3.4	0.3904600	CU M/MI	3973.144	CU M
SP6	Day 4	09.01.2004	3.45	0.3949100	CU M/MI	3974.773	CU M
SP6	Day 4	09.01.2004	3.5	0.0089100	CU M/MI	3976.477	CU M
SP6	Day 4	09.01.2004	3.55	0.4008700	CU M/MI	3978.258	CU M
SP6	Day 4	09.01.2004	4	0.3986300	CU M/MI	3979.924	CU M
SP6	Day 4	09.01.2004	4.05	0.3934500	CU M/MI	3981.553	CU M
SP6	Day 4	09.01.2004	4.1	0.0327500	CU M/MI	3983.333	CU M
SP6	Day 4	09.01.2004	4.15	0.3962600	CU M/MI	3985.000	CU M
SP6	Day 4	09.01.2004	4.2	0.3985100	CU M/MI	3986.591	CU M
SP6	Day 4	09.01.2004	4.25	0.0000000	CU M/MI	3988.258	CU M
SP6	Day 4	09.01.2004	4.3	0.4962400	CU M/MI	3990.076	CU M
SP6	Day 4	09.01.2004	4.35	0.4969800	CU M/MI	3991.705	CU M
SP6	Day 4	09.01.2004	4.4	0.4915900	CU M/MI	3993.258	CU M
SP6	Day 4	09.01.2004	4.45	0.0039500	CU M/MI	3995.000	CU M
SP6	Day 4	09.01.2004	4.5	0.4932900	CU M/MI	3996.818	CU M
SP6	Day 4	09.01.2004	4.55	0.4940100	CU M/MI	3998.371	CU M
SP6	Day 4	09.01.2004	5	0.0017000	CU M/MI	3999.924	CU M
SP6	Day 4	09.01.2004	5.05	0.0417200	CU M/MI	4001.894	CU M
SP6	Day 4	09.01.2004	5.1	0.4952000	CU M/MI	4003.447	CU M
SP6	Day 4	09.01.2004	5.15	0.4877000	CU M/MI	4005.000	CU M
SP6	Day 4	09.01.2004	5.2	0.0091000	CU M/MI	4006.856	CU M
SP6	Day 4	09.01.2004	5.25	0.4971000	CU M/MI	4008.598	CU M
SP6	Day 4	09.01.2004	5.3	0.4965200	CU M/MI	4010.152	CU M
SP6	Day 4	09.01.2004	5.35	0.0021000	CU M/MI	4011.818	CU M
SP6	Day 4	09.01.2004	5.4	0.4939300	CU M/MI	4013.750	CU M
SP6	Day 4	09.01.2004	5.45	0.4975800	CU M/MI	4015.341	CU M
SP6	Day 4	09.01.2004	5.5	0.4895200	CU M/MI	4016.894	CU M
SP6	Day 4	09.01.2004	5.55	0.0041600	CU M/MI	4018.674	CU M
SP6	Day 5	09.01.2004	6	0.4987000	CU M/MI	4020.492	CU M
SP6	Day 5	09.01.2004	6.05	0.4999800	CU M/MI	4022.045	CU M
SP6	Day 5	09.01.2004	6.1	0.4222200	CU M/MI	4023.636	CU M
SP6	Day 5	09.01.2004	6.15	0.0254700	CU M/MI	4025.606	CU M
SP6	Day 5	09.01.2004	6.2	0.4980800	CU M/MI	4027.197	CU M
SP6	Day 5	09.01.2004	6.25	0.4941600	CU M/MI	4028.750	CU M
SP6	Day 5	09.01.2004	6.3	0.0023800	CU M/MI	4030.455	CU M
SP6	Day 5	09.01.2004	6.35	0.4999600	CU M/MI	4032.348	CU M
SP6	Day 5	09.01.2004	6.4	0.4991800	CU M/MI	4033.902	CU M
SP6	Day 5	09.01.2004	6.45	0.4776700	CU M/MI	4035.455	CU M
SP6	Day 5	09.01.2004	6.5	0.0000000	CU M/MI	4037.348	CU M
SP6	Day 5	09.01.2004	6.55	0.4981100	CU M/MI	4039.091	CU M
SP6	Day 5	09.01.2004	7	0.4964200	CU M/MI	4040.644	CU M
SP6	Day 5	09.01.2004	7.05	0.0018900	CU M/MI	4042.311	CU M
SP6	Day 5	09.01.2004	7.1	0.4916500	CU M/MI	4044.242	CU M
SP6	Day 5	09.01.2004	7.15	0.4997000	CU M/MI	4045.795	CU M
SP6	Day 5	09.01.2004	7.2	0.4933300	CU M/MI	4047.424	CU M
SP6	Day 5	09.01.2004	7.25	0.0034000	CU M/MI	4049.205	CU M
SP6	Day 5	09.01.2004	7.3	0.0173900	CU M/MI	4051.023	CU M
SP6	Day 5	09.01.2004	7.35	0.4991900	CU M/MI	4051.856	CU M
SP6	Day 5	09.01.2004	7.4	0.4982000	CU M/MI	4052.689	CU M
SP6	Day 5	09.01.2004	7.45	0.0027900	CU M/MI	4053.864	CU M
SP6	Day 5	09.01.2004	7.5	0.0038700	CU M/MI	4054.583	CU M
SP6	Day 5	09.01.2004	7.55	0.0009000	CU M/MI	4054.583	CU M
SP6	Day 5	09.01.2004	8	0.4984700	CU M/MI	4055.038	CU M
SP6	Day 5	09.01.2004	8.05	0.0012600	CU M/MI	4055.265	CU M
SP6	Day 5	09.01.2004	8.1	0.0009000	CU M/MI	4055.265	CU M
SP6	Day 5	09.01.2004	8.15	0.0010200	CU M/MI	4055.530	CU M
SP6	Day 5	09.01.2004	8.2	0.0012000	CU M/MI	4056.023	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 5	09.01.2004	8.25	0.0009000	CU M/MI	4056.061	CU M
SP6	Day 5	09.01.2004	8.3	0.4720600	CU M/MI	4056.970	CU M
SP6	Day 5	09.01.2004	8.35	0.0138700	CU M/MI	4058.939	CU M
SP6	Day 5	09.01.2004	8.4	0.5014400	CU M/MI	4060.720	CU M
SP6	Day 5	09.01.2004	8.45	0.5026500	CU M/MI	4062.348	CU M
SP6	Day 5	09.01.2004	8.5	0.4920500	CU M/MI	4063.977	CU M
SP6	Day 5	09.01.2004	8.55	0.0010200	CU M/MI	4065.114	CU M
SP6	Day 5	09.01.2004	9	0.0031800	CU M/MI	4066.250	CU M
SP6	Day 5	09.01.2004	9.05	0.5017300	CU M/MI	4067.311	CU M
SP6	Day 5	09.01.2004	9.1	0.4963400	CU M/MI	4068.182	CU M
SP6	Day 5	09.01.2004	9.15	0.4953400	CU M/MI	4068.750	CU M
SP6	Day 5	09.01.2004	9.2	0.0007600	CU M/MI	4069.053	CU M
SP6	Day 5	09.01.2004	9.25	0.0007300	CU M/MI	4069.053	CU M
SP6	Day 5	09.01.2004	9.3	0.0018100	CU M/MI	4069.697	CU M
SP6	Day 5	09.01.2004	9.35	0.0021000	CU M/MI	4070.720	CU M
SP6	Day 5	09.01.2004	9.4	0.4040200	CU M/MI	4071.629	CU M
SP6	Day 5	09.01.2004	9.45	0.0000000	CU M/MI	4072.803	CU M
SP6	Day 5	09.01.2004	9.5	0.0011200	CU M/MI	4072.803	CU M
SP6	Day 5	09.01.2004	9.55	0.0013800	CU M/MI	4073.068	CU M
SP6	Day 5	09.01.2004	10	0.0013500	CU M/MI	4073.674	CU M
SP6	Day 5	09.01.2004	10.05	0.0012300	CU M/MI	4073.674	CU M
SP6	Day 5	09.01.2004	10.1	0.0033000	CU M/MI	4074.129	CU M
SP6	Day 5	09.01.2004	10.15	0.3992300	CU M/MI	4075.417	CU M
SP6	Day 5	09.01.2004	10.2	0.3805300	CU M/MI	4076.136	CU M
SP6	Day 5	09.01.2004	10.25	0.4008800	CU M/MI	4077.879	CU M
SP6	Day 5	09.01.2004	10.3	0.3981600	CU M/MI	4079.659	CU M
SP6	Day 5	09.01.2004	10.35	0.0043600	CU M/MI	4081.439	CU M
SP6	Day 5	09.01.2004	10.4	0.3988200	CU M/MI	4083.409	CU M
SP6	Day 5	09.01.2004	10.45	0.4007000	CU M/MI	4085.152	CU M
SP6	Day 5	09.01.2004	10.5	0.4025100	CU M/MI	4086.894	CU M
SP6	Day 5	09.01.2004	10.55	0.4017000	CU M/MI	4088.636	CU M
SP6	Day 5	09.01.2004	11	0.3985300	CU M/MI	4090.379	CU M
SP6	Day 5	09.01.2004	11.05	0.4011400	CU M/MI	4092.121	CU M
SP6	Day 5	09.01.2004	11.1	0.4016500	CU M/MI	4093.864	CU M
SP6	Day 5	09.01.2004	11.15	0.3972500	CU M/MI	4095.568	CU M
SP6	Day 5	09.01.2004	11.2	0.3830200	CU M/MI	4097.311	CU M
SP6	Day 5	09.01.2004	11.25	0.0018600	CU M/MI	4099.205	CU M
SP6	Day 5	09.01.2004	11.3	0.4000200	CU M/MI	4101.023	CU M
SP6	Day 5	09.01.2004	11.35	0.4012800	CU M/MI	4102.765	CU M
SP6	Day 5	09.01.2004	11.4	0.4012000	CU M/MI	4104.508	CU M
SP6	Day 5	09.01.2004	11.45	0.4014500	CU M/MI	4106.250	CU M
SP6	Day 5	09.01.2004	11.5	0.4009200	CU M/MI	4107.955	CU M
SP6	Day 5	09.01.2004	11.55	0.4014400	CU M/MI	4109.735	CU M
SP6	Day 5	09.01.2004	12	0.4004900	CU M/MI	4111.439	CU M
SP6	Day 5	09.01.2004	12.05	0.3966100	CU M/MI	4113.182	CU M
SP6	Day 5	09.01.2004	12.1	0.0039600	CU M/MI	4114.924	CU M
SP6	Day 5	09.01.2004	12.15	0.0528600	CU M/MI	4116.894	CU M
SP6	Day 5	09.01.2004	12.2	0.3997300	CU M/MI	4118.636	CU M
SP6	Day 5	09.01.2004	12.25	0.4008200	CU M/MI	4120.341	CU M
SP6	Day 5	09.01.2004	12.3	0.4012500	CU M/MI	4122.083	CU M
SP6	Day 5	09.01.2004	12.35	0.4011300	CU M/MI	4123.826	CU M
SP6	Day 5	09.01.2004	12.4	0.4030400	CU M/MI	4125.568	CU M
SP6	Day 5	09.01.2004	12.45	0.4024400	CU M/MI	4127.273	CU M
SP6	Day 5	09.01.2004	12.5	0.4020500	CU M/MI	4129.015	CU M
SP6	Day 5	09.01.2004	12.55	0.3888100	CU M/MI	4130.720	CU M
SP6	Day 5	09.01.2004	13	0.0060300	CU M/MI	4132.614	CU M
SP6	Day 5	09.01.2004	13.05	0.4017700	CU M/MI	4134.470	CU M
SP6	Day 5	09.01.2004	13.1	0.4013400	CU M/MI	4136.212	CU M
SP6	Day 5	09.01.2004	13.15	0.4002900	CU M/MI	4137.917	CU M

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Raw Flow from Effluent (SP-6)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 5	09.01.2004	13.2	0.4006200	CU M/MI	4139.659	CU M
SP6	Day 5	09.01.2004	13.25	0.4005700	CU M/MI	4141.402	CU M
SP6	Day 5	09.01.2004	13.3	0.4016500	CU M/MI	4143.106	CU M
SP6	Day 5	09.01.2004	13.35	0.4013800	CU M/MI	4144.848	CU M
SP6	Day 5	09.01.2004	13.4	0.3970500	CU M/MI	4146.553	CU M
SP6	Day 5	09.01.2004	13.45	0.0035400	CU M/MI	4148.295	CU M
SP6	Day 5	09.01.2004	13.5	0.0513000	CU M/MI	4150.265	CU M
SP6	Day 5	09.01.2004	13.55	0.3997500	CU M/MI	4152.008	CU M
SP6	Day 5	09.01.2004	14	0.4003400	CU M/MI	4153.712	CU M
SP6	Day 5	09.01.2004	14.05	0.3898100	CU M/MI	4155.341	CU M
SP6	Day 5	09.01.2004	14.1	0.0707200	CU M/MI	4157.159	CU M
SP6	Day 5	09.01.2004	14.15	0.4016300	CU M/MI	4158.902	CU M
SP6	Day 5	09.01.2004	14.2	0.4016400	CU M/MI	4160.568	CU M
SP6	Day 5	09.01.2004	14.25	0.3973300	CU M/MI	4162.235	CU M
SP6	Day 5	09.01.2004	14.3	0.0213600	CU M/MI	4164.015	CU M
SP6	Day 5	09.01.2004	14.35	0.3980400	CU M/MI	4165.758	CU M
SP6	Day 5	09.01.2004	14.4	0.4015700	CU M/MI	4167.424	CU M
SP6	Day 5	09.01.2004	14.45	0.3971400	CU M/MI	4169.091	CU M
SP6	Day 5	09.01.2004	14.5	0.0126100	CU M/MI	4170.833	CU M
SP6	Day 5	09.01.2004	14.55	0.4002800	CU M/MI	4172.576	CU M
SP6	Day 5	09.01.2004	15	0.4005400	CU M/MI	4174.242	CU M
SP6	Day 5	09.01.2004	15.05	0.3989300	CU M/MI	4175.909	CU M
SP6	Day 5	09.01.2004	15.1	0.0135300	CU M/MI	4177.614	CU M
SP6	Day 5	09.01.2004	15.15	0.3986500	CU M/MI	4179.394	CU M
SP6	Day 5	09.01.2004	15.2	0.4008100	CU M/MI	4181.061	CU M
SP6	Day 5	09.01.2004	15.25	0.3979100	CU M/MI	4182.689	CU M
SP6	Day 5	09.01.2004	15.3	0.0095600	CU M/MI	4184.356	CU M
SP6	Day 5	09.01.2004	15.35	0.3998300	CU M/MI	4186.136	CU M
SP6	Day 5	09.01.2004	15.4	0.4007300	CU M/MI	4187.765	CU M
SP6	Day 5	09.01.2004	15.45	0.3983200	CU M/MI	4189.432	CU M
SP6	Day 5	09.01.2004	15.5	0.0096400	CU M/MI	4191.061	CU M
SP6	Day 5	09.01.2004	15.55	0.3982300	CU M/MI	4192.841	CU M
SP6	Day 5	09.01.2004	16	0.4011900	CU M/MI	4194.470	CU M
SP6	Day 5	09.01.2004	16.05	0.4001100	CU M/MI	4196.136	CU M
SP6	Day 5	09.01.2004	16.1	0.3764600	CU M/MI	4197.879	CU M
SP6	Day 5	09.01.2004	16.15	0.3954200	CU M/MI	4199.886	CU M
SP6	Day 5	09.01.2004	16.2	0.3969600	CU M/MI	4201.667	CU M
SP6	Day 5	09.01.2004	16.25	0.3957400	CU M/MI	4203.447	CU M
SP6	Day 5	09.01.2004	16.3	0.3968900	CU M/MI	4205.227	CU M
SP6	Day 5	09.01.2004	16.35	0.3937100	CU M/MI	4207.008	CU M
SP6	Day 5	09.01.2004	16.4	0.3963900	CU M/MI	4208.826	CU M
SP6	Day 5	09.01.2004	16.45	0.3949000	CU M/MI	4210.606	CU M
SP6	Day 5	09.01.2004	16.5	0.3962200	CU M/MI	4212.386	CU M
SP6	Day 5	09.01.2004	16.55	0.3903000	CU M/MI	4214.205	CU M
SP6	Day 5	09.01.2004	17	0.3596500	CU M/MI	4215.985	CU M
SP6	Day 5	09.01.2004	17.05	0.0455600	CU M/MI	4217.955	CU M
SP6	Day 5	09.01.2004	17.1	0.3945000	CU M/MI	4219.735	CU M
SP6	Day 5	09.01.2004	17.15	0.3956500	CU M/MI	4221.515	CU M
SP6	Day 5	09.01.2004	17.2	0.3946200	CU M/MI	4223.295	CU M
SP6	Day 5	09.01.2004	17.25	0.3951600	CU M/MI	4225.114	CU M
SP6	Day 5	09.01.2004	17.3	0.3944200	CU M/MI	4226.894	CU M
SP6	Day 5	09.01.2004	17.35	0.3968100	CU M/MI	4228.712	CU M
SP6	Day 5	09.01.2004	17.4	0.3947000	CU M/MI	4230.492	CU M
SP6	Day 5	09.01.2004	17.45	0.3919300	CU M/MI	4232.273	CU M
SP6	Day 5	09.01.2004	17.5	0.3788100	CU M/MI	4234.053	CU M
SP6	Day 5	09.01.2004	17.55	0.0000000	CU M/MI	4235.947	CU M
SP6	Day 5	09.01.2004	18	0.3891600	CU M/MI	4237.765	CU M
SP6	Day 5	09.01.2004	18.05	0.3896100	CU M/MI	4239.545	CU M
SP6	Day 5	09.01.2004	18.1	0.3897100	CU M/MI	4241.364	CU M

Appendix B
Raw Flow from Effluent (SP-6)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 5	09.01.2004	18.15	0.3905300	CU M/MI	4243.144	CU M
SP6	Day 5	09.01.2004	18.2	0.3906000	CU M/MI	4244.924	CU M
SP6	Day 5	09.01.2004	18.25	0.3891000	CU M/MI	4246.705	CU M
SP6	Day 5	09.01.2004	18.3	0.3912300	CU M/MI	4248.485	CU M
SP6	Day 5	09.01.2004	18.35	0.3888300	CU M/MI	4250.265	CU M
SP6	Day 5	09.01.2004	18.4	0.3682800	CU M/MI	4252.045	CU M
SP6	Day 5	09.01.2004	18.45	0.0584900	CU M/MI	4253.977	CU M
SP6	Day 5	09.01.2004	18.5	0.3892200	CU M/MI	4255.795	CU M
SP6	Day 5	09.01.2004	18.55	0.3900600	CU M/MI	4257.538	CU M
SP6	Day 5	09.01.2004	19	0.3889500	CU M/MI	4259.318	CU M
SP6	Day 5	09.01.2004	19.05	0.3896600	CU M/MI	4261.136	CU M
SP6	Day 5	09.01.2004	19.1	0.3899900	CU M/MI	4262.917	CU M
SP6	Day 5	09.01.2004	19.15	0.3882400	CU M/MI	4264.697	CU M
SP6	Day 5	09.01.2004	19.3	0.3465700	CU M/MI	4270.076	CU M
SP6	Day 5	09.01.2004	19.35	0.3909800	CU M/MI	4272.008	CU M
SP6	Day 5	09.01.2004	19.4	0.3912800	CU M/MI	4273.788	CU M
SP6	Day 5	09.01.2004	19.45	0.3897600	CU M/MI	4275.568	CU M
SP6	Day 5	09.01.2004	19.5	0.3909400	CU M/MI	4277.348	CU M
SP6	Day 5	09.01.2004	19.55	0.3907300	CU M/MI	4279.167	CU M
SP6	Day 5	09.01.2004	20	0.3916200	CU M/MI	4280.909	CU M
SP6	Day 5	09.01.2004	20.05	0.3886500	CU M/MI	4282.727	CU M
SP6	Day 5	09.01.2004	20.1	0.3906700	CU M/MI	4284.508	CU M
SP6	Day 5	09.01.2004	20.15	0.3852600	CU M/MI	4286.250	CU M
SP6	Day 5	09.01.2004	20.2	0.0142800	CU M/MI	4288.106	CU M
SP6	Day 5	09.01.2004	20.25	0.3916900	CU M/MI	4289.962	CU M
SP6	Day 5	09.01.2004	20.3	0.3926900	CU M/MI	4291.705	CU M
SP6	Day 5	09.01.2004	20.35	0.3932000	CU M/MI	4293.485	CU M
SP6	Day 5	09.01.2004	20.4	0.3917300	CU M/MI	4295.227	CU M
SP6	Day 5	09.01.2004	20.45	0.3909100	CU M/MI	4296.970	CU M
SP6	Day 5	09.01.2004	20.5	0.3893100	CU M/MI	4298.712	CU M
SP6	Day 5	09.01.2004	20.55	0.3914300	CU M/MI	4300.455	CU M
SP6	Day 5	09.01.2004	21	0.3447300	CU M/MI	4302.235	CU M
SP6	Day 5	09.01.2004	21.05	0.3913000	CU M/MI	4304.167	CU M
SP6	Day 5	09.01.2004	21.1	0.3925400	CU M/MI	4305.947	CU M
SP6	Day 5	09.01.2004	21.15	0.3899700	CU M/MI	4307.689	CU M
SP6	Day 5	09.01.2004	21.2	0.3921700	CU M/MI	4309.432	CU M
SP6	Day 5	09.01.2004	21.25	0.3916000	CU M/MI	4311.174	CU M
SP6	Day 5	09.01.2004	21.3	0.3939300	CU M/MI	4312.917	CU M
SP6	Day 5	09.01.2004	21.35	0.3927000	CU M/MI	4314.659	CU M
SP6	Day 5	09.01.2004	21.4	0.3818000	CU M/MI	4316.439	CU M
SP6	Day 5	09.01.2004	21.45	0.0172700	CU M/MI	4318.333	CU M
SP6	Day 5	09.01.2004	21.5	0.3935800	CU M/MI	4320.152	CU M
SP6	Day 5	09.01.2004	21.55	0.3907100	CU M/MI	4321.894	CU M
SP6	Day 5	09.01.2004	22	0.3927500	CU M/MI	4323.674	CU M
SP6	Day 5	09.01.2004	22.05	0.3915700	CU M/MI	4325.417	CU M
SP6	Day 5	09.01.2004	22.1	0.3920600	CU M/MI	4327.159	CU M
SP6	Day 5	09.01.2004	22.15	0.3933000	CU M/MI	4328.902	CU M
SP6	Day 5	09.01.2004	22.2	0.3893500	CU M/MI	4330.644	CU M
SP6	Day 5	09.01.2004	22.25	0.0080400	CU M/MI	4332.462	CU M
SP6	Day 5	09.01.2004	22.3	0.3906600	CU M/MI	4334.394	CU M
SP6	Day 5	09.01.2004	22.35	0.3917200	CU M/MI	4336.098	CU M
SP6	Day 5	09.01.2004	22.4	0.3904600	CU M/MI	4337.841	CU M
SP6	Day 5	09.01.2004	22.45	0.3911900	CU M/MI	4339.621	CU M
SP6	Day 5	09.01.2004	22.5	0.3939900	CU M/MI	4341.326	CU M
SP6	Day 5	09.01.2004	22.55	0.3932100	CU M/MI	4343.106	CU M
SP6	Day 5	09.01.2004	23	0.3919800	CU M/MI	4344.848	CU M
SP6	Day 5	09.01.2004	23.05	0.3676500	CU M/MI	4346.591	CU M
SP6	Day 5	09.01.2004	23.1	0.0526600	CU M/MI	4348.523	CU M
SP6	Day 5	09.01.2004	23.15	0.3928600	CU M/MI	4350.303	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 5	09.01.2004	23.2	0.3926700	CU M/MI	4352.045	CU M
SP6	Day 5	09.01.2004	23.25	0.3936800	CU M/MI	4353.788	CU M
SP6	Day 5	09.01.2004	23.3	0.3928900	CU M/MI	4355.530	CU M
SP6	Day 5	09.01.2004	23.35	0.3942400	CU M/MI	4357.273	CU M
SP6	Day 5	09.01.2004	23.4	0.3947500	CU M/MI	4359.015	CU M
SP6	Day 5	09.01.2004	23.45	0.3852900	CU M/MI	4360.758	CU M
SP6	Day 5	09.01.2004	23.5	0.0126400	CU M/MI	4362.614	CU M
SP6	Day 5	09.01.2004	23.55	0.3952400	CU M/MI	4364.508	CU M
SP6	Day 5	09.02.2004	0	0.3930600	CU M/MI	4366.212	CU M
SP6	Day 5	09.02.2004	0.05	0.3941600	CU M/MI	4367.992	CU M
SP6	Day 5	09.02.2004	0.1	0.3916600	CU M/MI	4369.773	CU M
SP6	Day 5	09.02.2004	0.15	0.3912500	CU M/MI	4371.477	CU M
SP6	Day 5	09.02.2004	0.2	0.3937700	CU M/MI	4373.258	CU M
SP6	Day 5	09.02.2004	0.25	0.3943400	CU M/MI	4375.076	CU M
SP6	Day 5	09.02.2004	0.3	0.3822700	CU M/MI	4376.856	CU M
SP6	Day 5	09.02.2004	0.35	0.0241700	CU M/MI	4378.788	CU M
SP6	Day 5	09.02.2004	0.4	0.3940000	CU M/MI	4380.644	CU M
SP6	Day 5	09.02.2004	0.45	0.3928900	CU M/MI	4382.424	CU M
SP6	Day 5	09.02.2004	0.5	0.3922600	CU M/MI	4384.205	CU M
SP6	Day 5	09.02.2004	0.55	0.3940500	CU M/MI	4386.023	CU M
SP6	Day 5	09.02.2004	1	0.3917000	CU M/MI	4387.803	CU M
SP6	Day 5	09.02.2004	1.05	0.3970400	CU M/MI	4389.583	CU M
SP6	Day 5	09.02.2004	1.1	0.3944100	CU M/MI	4391.402	CU M
SP6	Day 5	09.02.2004	1.15	0.3930100	CU M/MI	4393.371	CU M
SP6	Day 5	09.02.2004	1.2	0.3915700	CU M/MI	4395.152	CU M
SP6	Day 5	09.02.2004	1.25	0.0315800	CU M/MI	4397.083	CU M
SP6	Day 5	09.02.2004	1.3	0.3923400	CU M/MI	4398.939	CU M
SP6	Day 5	09.02.2004	1.35	0.3933100	CU M/MI	4400.720	CU M
SP6	Day 5	09.02.2004	1.4	0.3932500	CU M/MI	4402.689	CU M
SP6	Day 5	09.02.2004	1.45	0.3892800	CU M/MI	4404.508	CU M
SP6	Day 5	09.02.2004	1.5	0.3593300	CU M/MI	4406.326	CU M
SP6	Day 5	09.02.2004	1.55	0.3908100	CU M/MI	4408.258	CU M
SP6	Day 5	09.02.2004	2	0.3927400	CU M/MI	4410.038	CU M
SP6	Day 5	09.02.2004	2.05	0.3899100	CU M/MI	4412.008	CU M
SP6	Day 5	09.02.2004	2.1	0.3929800	CU M/MI	4413.826	CU M
SP6	Day 5	09.02.2004	2.15	0.3855100	CU M/MI	4415.606	CU M
SP6	Day 5	09.02.2004	2.2	0.3920300	CU M/MI	4417.576	CU M
SP6	Day 5	09.02.2004	2.25	0.3934700	CU M/MI	4419.394	CU M
SP6	Day 5	09.02.2004	2.3	0.3927200	CU M/MI	4421.364	CU M
SP6	Day 5	09.02.2004	2.35	0.3935700	CU M/MI	4423.144	CU M
SP6	Day 5	09.02.2004	2.4	0.3946700	CU M/MI	4424.962	CU M
SP6	Day 5	09.02.2004	2.45	0.3928000	CU M/MI	4426.932	CU M
SP6	Day 5	09.02.2004	2.5	0.3912400	CU M/MI	4428.712	CU M
SP6	Day 5	09.02.2004	2.55	0.3912500	CU M/MI	4430.682	CU M
SP6	Day 5	09.02.2004	3	0.3947900	CU M/MI	4432.500	CU M
SP6	Day 5	09.02.2004	3.05	0.3962800	CU M/MI	4434.280	CU M
SP6	Day 5	09.02.2004	3.1	0.3957500	CU M/MI	4436.250	CU M
SP6	Day 5	09.02.2004	3.15	0.3992700	CU M/MI	4438.106	CU M
SP6	Day 5	09.02.2004	3.2	0.3988900	CU M/MI	4439.962	CU M
SP6	Day 5	09.02.2004	3.25	0.3940500	CU M/MI	4441.818	CU M
SP6	Day 5	09.02.2004	3.3	0.3960700	CU M/MI	4443.636	CU M
SP6	Day 5	09.02.2004	3.35	0.3903500	CU M/MI	4445.606	CU M
SP6	Day 5	09.02.2004	3.4	0.3926100	CU M/MI	4447.386	CU M
SP6	Day 5	09.02.2004	3.45	0.3476500	CU M/MI	4449.167	CU M
SP6	Day 5	09.02.2004	3.5	0.3897000	CU M/MI	4451.136	CU M
SP6	Day 5	09.02.2004	3.55	0.3917600	CU M/MI	4452.955	CU M
SP6	Day 5	09.02.2004	4	0.3898100	CU M/MI	4454.886	CU M
SP6	Day 5	09.02.2004	4.05	0.3922100	CU M/MI	4456.667	CU M
SP6	Day 5	09.02.2004	4.1	0.3830100	CU M/MI	4458.485	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 5	09.02.2004	4.15	0.3912700	CU M/MI	4460.417	CU M
SP6	Day 5	09.02.2004	4.2	0.3908300	CU M/MI	4462.235	CU M
SP6	Day 5	09.02.2004	4.25	0.3931100	CU M/MI	4464.205	CU M
SP6	Day 5	09.02.2004	4.3	0.3964400	CU M/MI	4465.985	CU M
SP6	Day 5	09.02.2004	4.35	0.3926500	CU M/MI	4467.765	CU M
SP6	Day 5	09.02.2004	4.4	0.3921200	CU M/MI	4469.735	CU M
SP6	Day 5	09.02.2004	4.45	0.3911300	CU M/MI	4471.515	CU M
SP6	Day 5	09.02.2004	4.5	0.3930600	CU M/MI	4473.485	CU M
SP6	Day 5	09.02.2004	4.55	0.3930200	CU M/MI	4475.265	CU M
SP6	Day 5	09.02.2004	5	0.3938500	CU M/MI	4477.083	CU M
SP6	Day 5	09.02.2004	5.05	0.3922700	CU M/MI	4478.902	CU M
SP6	Day 5	09.02.2004	5.1	0.0086500	CU M/MI	4480.644	CU M
SP6	Day 5	09.02.2004	5.15	0.3891800	CU M/MI	4482.614	CU M
SP6	Day 5	09.02.2004	5.2	0.3923300	CU M/MI	4484.318	CU M
SP6	Day 5	09.02.2004	5.25	0.3935100	CU M/MI	4486.174	CU M
SP6	Day 5	09.02.2004	5.3	0.3914400	CU M/MI	4487.955	CU M
SP6	Day 5	09.02.2004	5.35	0.3293900	CU M/MI	4489.773	CU M
SP6	Day 5	09.02.2004	5.4	0.3912800	CU M/MI	4491.742	CU M
SP6	Day 5	09.02.2004	5.45	0.3907900	CU M/MI	4493.523	CU M
SP6	Day 5	09.02.2004	5.5	0.3917100	CU M/MI	4495.303	CU M
SP6	Day 5	09.02.2004	5.55	0.3931000	CU M/MI	4497.121	CU M
SP6	Day 6	09.03.2004	0	0.0034400	CU M/MI	4855.530	CU M
SP6	Day 6	09.03.2004	0.05	0.3932900	CU M/MI	4856.515	CU M
SP6	Day 6	09.03.2004	0.1	0.0213700	CU M/MI	4858.409	CU M
SP6	Day 6	09.03.2004	0.15	0.3959300	CU M/MI	4860.303	CU M
SP6	Day 6	09.03.2004	0.2	0.3945200	CU M/MI	4862.045	CU M
SP6	Day 6	09.03.2004	0.25	0.3947100	CU M/MI	4863.826	CU M
SP6	Day 6	09.03.2004	0.3	0.3950300	CU M/MI	4865.568	CU M
SP6	Day 6	09.03.2004	0.35	0.3944700	CU M/MI	4867.348	CU M
SP6	Day 6	09.03.2004	0.4	0.3962500	CU M/MI	4869.091	CU M
SP6	Day 6	09.03.2004	0.45	0.3957500	CU M/MI	4870.871	CU M
SP6	Day 6	09.03.2004	0.5	0.3911100	CU M/MI	4872.614	CU M
SP6	Day 6	09.03.2004	0.55	0.0061500	CU M/MI	4874.394	CU M
SP6	Day 6	09.03.2004	1	0.3946900	CU M/MI	4876.326	CU M
SP6	Day 6	09.03.2004	1.05	0.3948300	CU M/MI	4878.106	CU M
SP6	Day 6	09.03.2004	1.1	0.3952900	CU M/MI	4879.848	CU M
SP6	Day 6	09.03.2004	1.15	0.3972500	CU M/MI	4881.629	CU M
SP6	Day 6	09.03.2004	1.2	0.3939800	CU M/MI	4883.371	CU M
SP6	Day 6	09.03.2004	1.25	0.3952900	CU M/MI	4885.114	CU M
SP6	Day 6	09.03.2004	1.3	0.3963600	CU M/MI	4886.856	CU M
SP6	Day 6	09.03.2004	1.35	0.3951500	CU M/MI	4888.636	CU M
SP6	Day 6	09.03.2004	1.4	0.3783000	CU M/MI	4890.379	CU M
SP6	Day 6	09.03.2004	1.45	0.0245200	CU M/MI	4892.311	CU M
SP6	Day 6	09.03.2004	1.5	0.3986900	CU M/MI	4894.129	CU M
SP6	Day 6	09.03.2004	1.55	0.3968900	CU M/MI	4895.871	CU M
SP6	Day 6	09.03.2004	2	0.3973000	CU M/MI	4897.652	CU M
SP6	Day 6	09.03.2004	2.05	0.3973100	CU M/MI	4899.394	CU M
SP6	Day 6	09.03.2004	2.1	0.3960300	CU M/MI	4901.174	CU M
SP6	Day 6	09.03.2004	2.15	0.3971300	CU M/MI	4902.917	CU M
SP6	Day 6	09.03.2004	2.2	0.3963200	CU M/MI	4904.659	CU M
SP6	Day 6	09.03.2004	2.25	0.3903800	CU M/MI	4906.402	CU M
SP6	Day 6	09.03.2004	2.3	0.0096100	CU M/MI	4908.258	CU M
SP6	Day 6	09.03.2004	2.35	0.3967300	CU M/MI	4910.152	CU M
SP6	Day 6	09.03.2004	2.4	0.3984600	CU M/MI	4911.894	CU M
SP6	Day 6	09.03.2004	2.45	0.3953000	CU M/MI	4913.674	CU M
SP6	Day 6	09.03.2004	2.5	0.3965500	CU M/MI	4915.417	CU M
SP6	Day 6	09.03.2004	2.55	0.3973300	CU M/MI	4917.197	CU M
SP6	Day 6	09.03.2004	3	0.3984200	CU M/MI	4918.977	CU M
SP6	Day 6	09.03.2004	3.05	0.3989300	CU M/MI	4920.720	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 6	09.03.2004	3.1	0.3944800	CU M/MI	4922.462	CU M
SP6	Day 6	09.03.2004	3.15	0.3613500	CU M/MI	4924.242	CU M
SP6	Day 6	09.03.2004	3.2	0.0027800	CU M/MI	4925.038	CU M
SP6	Day 6	09.03.2004	3.25	0.0029800	CU M/MI	4925.038	CU M
SP6	Day 6	09.03.2004	3.3	0.0025200	CU M/MI	4925.038	CU M
SP6	Day 6	09.03.2004	3.35	0.0024100	CU M/MI	4925.076	CU M
SP6	Day 6	09.03.2004	3.4	0.0023300	CU M/MI	4925.076	CU M
SP6	Day 6	09.03.2004	3.45	0.0022400	CU M/MI	4925.076	CU M
SP6	Day 6	09.03.2004	3.5	0.0025400	CU M/MI	4925.114	CU M
SP6	Day 6	09.03.2004	3.55	0.0022100	CU M/MI	4925.114	CU M
SP6	Day 6	09.03.2004	4	0.0022700	CU M/MI	4925.114	CU M
SP6	Day 6	09.03.2004	4.05	0.0023900	CU M/MI	4925.152	CU M
SP6	Day 6	09.03.2004	4.1	0.0025400	CU M/MI	4925.152	CU M
SP6	Day 6	09.03.2004	4.15	0.0025100	CU M/MI	4925.152	CU M
SP6	Day 6	09.03.2004	4.2	0.0025900	CU M/MI	4925.189	CU M
SP6	Day 6	09.03.2004	4.25	0.0029400	CU M/MI	4925.189	CU M
SP6	Day 6	09.03.2004	4.3	0.0032700	CU M/MI	4925.189	CU M
SP6	Day 6	09.03.2004	4.35	0.0036200	CU M/MI	4925.227	CU M
SP6	Day 6	09.03.2004	4.4	0.0034400	CU M/MI	4925.227	CU M
SP6	Day 6	09.03.2004	4.45	0.0034400	CU M/MI	4925.265	CU M
SP6	Day 6	09.03.2004	4.5	0.0033300	CU M/MI	4925.265	CU M
SP6	Day 6	09.03.2004	4.55	0.0035600	CU M/MI	4925.303	CU M
SP6	Day 6	09.03.2004	5	0.0035000	CU M/MI	4925.303	CU M
SP6	Day 6	09.03.2004	5.05	0.0037300	CU M/MI	4925.341	CU M
SP6	Day 6	09.03.2004	5.1	0.0037100	CU M/MI	4925.341	CU M
SP6	Day 6	09.03.2004	5.15	0.0039400	CU M/MI	4925.379	CU M
SP6	Day 6	09.03.2004	5.2	0.0039700	CU M/MI	4925.379	CU M
SP6	Day 6	09.03.2004	5.25	0.0045600	CU M/MI	4925.417	CU M
SP6	Day 6	09.03.2004	5.3	0.0044900	CU M/MI	4925.417	CU M
SP6	Day 6	09.03.2004	5.35	0.0046500	CU M/MI	4925.455	CU M
SP6	Day 6	09.03.2004	5.4	0.0353800	CU M/MI	4926.439	CU M
SP6	Day 6	09.03.2004	5.45	0.3924300	CU M/MI	4927.197	CU M
SP6	Day 6	09.03.2004	5.5	0.0029400	CU M/MI	4927.955	CU M
SP6	Day 6	09.03.2004	5.55	0.0032900	CU M/MI	4929.015	CU M
SP6	Day 6	09.02.2004	6	0.3904500	CU M/MI	4498.902	CU M
SP6	Day 6	09.02.2004	6.05	0.3953800	CU M/MI	4500.720	CU M
SP6	Day 6	09.02.2004	6.1	0.3932000	CU M/MI	4502.500	CU M
SP6	Day 6	09.02.2004	6.15	0.3918100	CU M/MI	4504.242	CU M
SP6	Day 6	09.02.2004	6.2	0.3893200	CU M/MI	4506.023	CU M
SP6	Day 6	09.02.2004	6.25	0.0110100	CU M/MI	4507.841	CU M
SP6	Day 6	09.02.2004	6.3	0.3933400	CU M/MI	4509.735	CU M
SP6	Day 6	09.02.2004	6.35	0.4001000	CU M/MI	4511.515	CU M
SP6	Day 6	09.02.2004	6.4	0.0026900	CU M/MI	4512.273	CU M
SP6	Day 6	09.02.2004	6.45	0.0030500	CU M/MI	4513.144	CU M
SP6	Day 6	09.02.2004	6.5	0.4027700	CU M/MI	4513.485	CU M
SP6	Day 6	09.02.2004	6.55	0.0028200	CU M/MI	4513.712	CU M
SP6	Day 6	09.02.2004	7	0.0029500	CU M/MI	4513.712	CU M
SP6	Day 6	09.02.2004	7.05	0.0072500	CU M/MI	4513.977	CU M
SP6	Day 6	09.02.2004	7.1	0.0026000	CU M/MI	4514.432	CU M
SP6	Day 6	09.02.2004	7.15	0.0035500	CU M/MI	4514.470	CU M
SP6	Day 6	09.02.2004	7.2	0.0033700	CU M/MI	4514.470	CU M
SP6	Day 6	09.02.2004	7.25	0.0036700	CU M/MI	4514.470	CU M
SP6	Day 6	09.02.2004	7.3	0.0036500	CU M/MI	4514.773	CU M
SP6	Day 6	09.02.2004	7.35	0.0035900	CU M/MI	4515.189	CU M
SP6	Day 6	09.02.2004	7.4	0.0034400	CU M/MI	4515.189	CU M
SP6	Day 6	09.02.2004	7.45	0.3913000	CU M/MI	4515.795	CU M
SP6	Day 6	09.02.2004	7.5	0.0034200	CU M/MI	4516.705	CU M
SP6	Day 6	09.02.2004	7.55	0.4029900	CU M/MI	4517.727	CU M
SP6	Day 6	09.02.2004	8	0.3488600	CU M/MI	4518.333	CU M

Appendix B
Raw Flow from Effluent (SP-6)
23 August Through 3 September 2004

Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 6	09.02.2004	8.05	0.3956800	CU M/MI	4519.659	CU M
SP6	Day 6	09.02.2004	8.1	0.0029200	CU M/MI	4520.492	CU M
SP6	Day 6	09.02.2004	8.15	0.4023400	CU M/MI	4522.197	CU M
SP6	Day 6	09.02.2004	8.2	0.4015900	CU M/MI	4523.902	CU M
SP6	Day 6	09.02.2004	8.25	0.4010300	CU M/MI	4525.644	CU M
SP6	Day 6	09.02.2004	8.3	0.4028900	CU M/MI	4527.348	CU M
SP6	Day 6	09.02.2004	8.35	0.3963400	CU M/MI	4529.091	CU M
SP6	Day 6	09.02.2004	8.4	0.0043800	CU M/MI	4530.871	CU M
SP6	Day 6	09.02.2004	8.45	0.4002400	CU M/MI	4532.803	CU M
SP6	Day 6	09.02.2004	8.5	0.3998500	CU M/MI	4534.545	CU M
SP6	Day 6	09.02.2004	8.55	0.3980800	CU M/MI	4536.250	CU M
SP6	Day 6	09.02.2004	9	0.3969800	CU M/MI	4537.992	CU M
SP6	Day 6	09.02.2004	9.05	0.3993300	CU M/MI	4539.697	CU M
SP6	Day 6	09.02.2004	9.1	0.4001500	CU M/MI	4541.439	CU M
SP6	Day 6	09.02.2004	9.15	0.3984500	CU M/MI	4543.144	CU M
SP6	Day 6	09.02.2004	9.2	0.3855900	CU M/MI	4544.886	CU M
SP6	Day 6	09.02.2004	9.25	0.0144000	CU M/MI	4546.780	CU M
SP6	Day 6	09.02.2004	9.3	0.0250000	CU M/MI	4548.598	CU M
SP6	Day 6	09.02.2004	9.35	0.4976100	CU M/MI	4550.265	CU M
SP6	Day 6	09.02.2004	9.4	0.4940000	CU M/MI	4551.970	CU M
SP6	Day 6	09.02.2004	9.45	0.0033300	CU M/MI	4553.636	CU M
SP6	Day 6	09.02.2004	9.5	0.0218900	CU M/MI	4555.606	CU M
SP6	Day 6	09.02.2004	9.55	0.4986300	CU M/MI	4557.424	CU M
SP6	Day 6	09.02.2004	10	0.4982600	CU M/MI	4559.091	CU M
SP6	Day 6	09.02.2004	10.05	0.4894500	CU M/MI	4560.758	CU M
SP6	Day 6	09.02.2004	10.1	0.0042400	CU M/MI	4562.576	CU M
SP6	Day 6	09.02.2004	10.15	0.0338700	CU M/MI	4564.508	CU M
SP6	Day 6	09.02.2004	10.2	0.5002600	CU M/MI	4566.250	CU M
SP6	Day 6	09.02.2004	10.25	0.4975600	CU M/MI	4567.955	CU M
SP6	Day 6	09.02.2004	10.3	0.4928400	CU M/MI	4569.697	CU M
SP6	Day 6	09.02.2004	10.35	0.0047000	CU M/MI	4571.515	CU M
SP6	Day 6	09.02.2004	10.4	0.0320400	CU M/MI	4573.523	CU M
SP6	Day 6	09.02.2004	10.45	0.4999100	CU M/MI	4575.341	CU M
SP6	Day 6	09.02.2004	10.5	0.4984800	CU M/MI	4577.121	CU M
SP6	Day 6	09.02.2004	10.55	0.4950800	CU M/MI	4578.864	CU M
SP6	Day 6	09.02.2004	11	0.4686400	CU M/MI	4580.644	CU M
SP6	Day 6	09.02.2004	11.05	0.0108800	CU M/MI	4582.576	CU M
SP6	Day 6	09.02.2004	11.1	0.4959000	CU M/MI	4584.470	CU M
SP6	Day 6	09.02.2004	11.15	0.4967700	CU M/MI	4586.250	CU M
SP6	Day 6	09.02.2004	11.2	0.4941100	CU M/MI	4587.992	CU M
SP6	Day 6	09.02.2004	11.25	0.4858400	CU M/MI	4589.773	CU M
SP6	Day 6	09.02.2004	11.3	0.0047700	CU M/MI	4591.553	CU M
SP6	Day 6	09.02.2004	11.35	0.0295000	CU M/MI	4593.561	CU M
SP6	Day 6	09.02.2004	11.4	0.4961200	CU M/MI	4595.379	CU M
SP6	Day 6	09.02.2004	11.45	0.4937800	CU M/MI	4597.121	CU M
SP6	Day 6	09.02.2004	11.5	0.4919600	CU M/MI	4598.902	CU M
SP6	Day 6	09.02.2004	11.55	0.4651600	CU M/MI	4600.644	CU M
SP6	Day 6	09.02.2004	12	0.0091800	CU M/MI	4602.576	CU M
SP6	Day 6	09.02.2004	12.05	0.4941300	CU M/MI	4604.508	CU M
SP6	Day 6	09.02.2004	12.1	0.4959900	CU M/MI	4606.250	CU M
SP6	Day 6	09.02.2004	12.15	0.4941600	CU M/MI	4607.992	CU M
SP6	Day 6	09.02.2004	12.2	0.4885100	CU M/MI	4609.773	CU M
SP6	Day 6	09.02.2004	12.25	0.0066200	CU M/MI	4611.591	CU M
SP6	Day 6	09.02.2004	12.3	0.0280800	CU M/MI	4613.598	CU M
SP6	Day 6	09.02.2004	12.35	0.4972800	CU M/MI	4615.379	CU M
SP6	Day 6	09.02.2004	12.4	0.4972100	CU M/MI	4617.159	CU M
SP6	Day 6	09.02.2004	12.45	0.4946300	CU M/MI	4618.902	CU M
SP6	Day 6	09.02.2004	12.5	0.0033600	CU M/MI	4620.606	CU M
SP6	Day 6	09.02.2004	12.55	0.0324900	CU M/MI	4622.652	CU M

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Raw Flow from Effluent (SP-6)
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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 6	09.02.2004	13	0.4987100	CU M/MI	4624.356	CU M
SP6	Day 6	09.02.2004	13.05	0.4965400	CU M/MI	4626.061	CU M
SP6	Day 6	09.02.2004	13.1	0.4678500	CU M/MI	4627.765	CU M
SP6	Day 6	09.02.2004	13.15	0.0174600	CU M/MI	4629.735	CU M
SP6	Day 6	09.02.2004	13.2	0.4986200	CU M/MI	4631.553	CU M
SP6	Day 6	09.02.2004	13.25	0.4987700	CU M/MI	4633.220	CU M
SP6	Day 6	09.02.2004	13.3	0.4847300	CU M/MI	4634.924	CU M
SP6	Day 6	09.02.2004	13.35	0.0091100	CU M/MI	4636.818	CU M
SP6	Day 6	09.02.2004	13.4	0.4996400	CU M/MI	4638.712	CU M
SP6	Day 6	09.02.2004	13.45	0.4992300	CU M/MI	4640.417	CU M
SP6	Day 6	09.02.2004	13.5	0.4922900	CU M/MI	4642.121	CU M
SP6	Day 6	09.02.2004	13.55	0.0058300	CU M/MI	4643.939	CU M
SP6	Day 6	09.02.2004	14	0.4995400	CU M/MI	4645.871	CU M
SP6	Day 6	09.02.2004	14.05	0.5006200	CU M/MI	4647.576	CU M
SP6	Day 6	09.02.2004	14.1	0.4983700	CU M/MI	4649.280	CU M
SP6	Day 6	09.02.2004	14.15	0.0033900	CU M/MI	4651.023	CU M
SP6	Day 6	09.02.2004	14.2	0.0409900	CU M/MI	4653.068	CU M
SP6	Day 6	09.02.2004	14.25	0.5011700	CU M/MI	4654.773	CU M
SP6	Day 6	09.02.2004	14.3	0.4036000	CU M/MI	4656.515	CU M
SP6	Day 6	09.02.2004	14.35	0.4049500	CU M/MI	4658.295	CU M
SP6	Day 6	09.02.2004	14.4	0.4046600	CU M/MI	4660.038	CU M
SP6	Day 6	09.02.2004	14.45	0.4040200	CU M/MI	4661.780	CU M
SP6	Day 6	09.02.2004	14.5	0.4029200	CU M/MI	4663.523	CU M
SP6	Day 6	09.02.2004	14.55	0.3829100	CU M/MI	4665.303	CU M
SP6	Day 6	09.02.2004	15	0.0198200	CU M/MI	4667.235	CU M
SP6	Day 6	09.02.2004	15.05	0.4026400	CU M/MI	4669.053	CU M
SP6	Day 6	09.02.2004	15.1	0.4025600	CU M/MI	4670.833	CU M
SP6	Day 6	09.02.2004	15.15	0.4027200	CU M/MI	4672.576	CU M
SP6	Day 6	09.02.2004	15.2	0.4035400	CU M/MI	4674.356	CU M
SP6	Day 6	09.02.2004	15.25	0.4038600	CU M/MI	4676.098	CU M
SP6	Day 6	09.02.2004	15.3	0.4046700	CU M/MI	4677.841	CU M
SP6	Day 6	09.02.2004	15.35	0.4004000	CU M/MI	4679.621	CU M
SP6	Day 6	09.02.2004	15.4	0.3747200	CU M/MI	4681.477	CU M
SP6	Day 6	09.02.2004	15.45	0.0161300	CU M/MI	4683.371	CU M
SP6	Day 6	09.02.2004	15.5	0.4016800	CU M/MI	4685.189	CU M
SP6	Day 6	09.02.2004	15.55	0.4012900	CU M/MI	4686.970	CU M
SP6	Day 6	09.02.2004	16	0.4021500	CU M/MI	4688.750	CU M
SP6	Day 6	09.02.2004	16.05	0.4023300	CU M/MI	4690.530	CU M
SP6	Day 6	09.02.2004	16.1	0.4032500	CU M/MI	4692.311	CU M
SP6	Day 6	09.02.2004	16.15	0.4014800	CU M/MI	4694.091	CU M
SP6	Day 6	09.02.2004	16.2	0.3953000	CU M/MI	4695.871	CU M
SP6	Day 6	09.02.2004	16.25	0.0086900	CU M/MI	4697.727	CU M
SP6	Day 6	09.02.2004	16.3	0.4023400	CU M/MI	4699.621	CU M
SP6	Day 6	09.02.2004	16.35	0.4023300	CU M/MI	4701.439	CU M
SP6	Day 6	09.02.2004	16.4	0.4017700	CU M/MI	4703.182	CU M
SP6	Day 6	09.02.2004	16.45	0.4012300	CU M/MI	4704.962	CU M
SP6	Day 6	09.02.2004	16.5	0.4015300	CU M/MI	4706.742	CU M
SP6	Day 6	09.02.2004	16.55	0.4020400	CU M/MI	4708.561	CU M
SP6	Day 6	09.02.2004	17	0.4007800	CU M/MI	4710.379	CU M
SP6	Day 6	09.02.2004	17.05	0.3910000	CU M/MI	4712.197	CU M
SP6	Day 6	09.02.2004	17.1	0.0215300	CU M/MI	4714.167	CU M
SP6	Day 6	09.02.2004	17.15	0.4013800	CU M/MI	4716.061	CU M
SP6	Day 6	09.02.2004	17.2	0.4022300	CU M/MI	4717.879	CU M
SP6	Day 6	09.02.2004	17.25	0.4018300	CU M/MI	4719.735	CU M
SP6	Day 6	09.02.2004	17.3	0.4019200	CU M/MI	4721.553	CU M
SP6	Day 6	09.02.2004	17.35	0.4012000	CU M/MI	4723.371	CU M
SP6	Day 6	09.02.2004	17.4	0.4000200	CU M/MI	4725.227	CU M
SP6	Day 6	09.02.2004	17.45	0.4006500	CU M/MI	4727.045	CU M
SP6	Day 6	09.02.2004	17.5	0.3976500	CU M/MI	4728.939	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 6	09.02.2004	17.55	0.3830800	CU M/MI	4730.795	CU M
SP6	Day 6	09.02.2004	18	0.3981800	CU M/MI	4732.803	CU M
SP6	Day 6	09.02.2004	18.05	0.3962600	CU M/MI	4734.659	CU M
SP6	Day 6	09.02.2004	18.1	0.3956900	CU M/MI	4736.515	CU M
SP6	Day 6	09.02.2004	18.15	0.3952300	CU M/MI	4738.295	CU M
SP6	Day 6	09.02.2004	18.2	0.3933200	CU M/MI	4740.303	CU M
SP6	Day 6	09.02.2004	18.25	0.3924600	CU M/MI	4742.083	CU M
SP6	Day 6	09.02.2004	18.3	0.3932800	CU M/MI	4744.053	CU M
SP6	Day 6	09.02.2004	18.35	0.3983700	CU M/MI	4745.871	CU M
SP6	Day 6	09.02.2004	18.4	0.4023900	CU M/MI	4747.727	CU M
SP6	Day 6	09.02.2004	18.45	0.4017700	CU M/MI	4749.735	CU M
SP6	Day 6	09.02.2004	18.5	0.3951900	CU M/MI	4751.553	CU M
SP6	Day 6	09.02.2004	18.55	0.0109100	CU M/MI	4753.371	CU M
SP6	Day 6	09.02.2004	19	0.3922400	CU M/MI	4755.303	CU M
SP6	Day 6	09.02.2004	19.05	0.3943000	CU M/MI	4757.121	CU M
SP6	Day 6	09.02.2004	19.1	0.3938900	CU M/MI	4759.091	CU M
SP6	Day 6	09.02.2004	19.15	0.3927300	CU M/MI	4760.909	CU M
SP6	Day 6	09.02.2004	19.2	0.3853400	CU M/MI	4762.765	CU M
SP6	Day 6	09.02.2004	19.25	0.3952400	CU M/MI	4764.735	CU M
SP6	Day 6	09.02.2004	19.3	0.3949900	CU M/MI	4766.553	CU M
SP6	Day 6	09.02.2004	19.35	0.3961000	CU M/MI	4768.523	CU M
SP6	Day 6	09.02.2004	19.4	0.3943900	CU M/MI	4770.341	CU M
SP6	Day 6	09.02.2004	19.45	0.3924300	CU M/MI	4772.159	CU M
SP6	Day 6	09.02.2004	19.5	0.3915300	CU M/MI	4774.129	CU M
SP6	Day 6	09.02.2004	19.55	0.3920600	CU M/MI	4775.947	CU M
SP6	Day 6	09.02.2004	20	0.3904800	CU M/MI	4777.917	CU M
SP6	Day 6	09.02.2004	20.05	0.3913900	CU M/MI	4779.735	CU M
SP6	Day 6	09.02.2004	20.1	0.3929500	CU M/MI	4781.591	CU M
SP6	Day 6	09.02.2004	20.15	0.3940300	CU M/MI	4783.523	CU M
SP6	Day 6	09.02.2004	20.2	0.3947400	CU M/MI	4785.379	CU M
SP6	Day 6	09.02.2004	20.25	0.0112300	CU M/MI	4787.197	CU M
SP6	Day 6	09.02.2004	20.3	0.3959500	CU M/MI	4789.167	CU M
SP6	Day 6	09.02.2004	20.35	0.3981800	CU M/MI	4791.023	CU M
SP6	Day 6	09.02.2004	20.4	0.3929900	CU M/MI	4792.992	CU M
SP6	Day 6	09.02.2004	20.45	0.3961400	CU M/MI	4794.811	CU M
SP6	Day 6	09.02.2004	20.5	0.3939100	CU M/MI	4796.667	CU M
SP6	Day 6	09.02.2004	20.55	0.3949600	CU M/MI	4798.636	CU M
SP6	Day 6	09.02.2004	21	0.3947100	CU M/MI	4800.417	CU M
SP6	Day 6	09.02.2004	21.05	0.3946600	CU M/MI	4802.386	CU M
SP6	Day 6	09.02.2004	21.1	0.3958900	CU M/MI	4804.205	CU M
SP6	Day 6	09.02.2004	21.15	0.3926700	CU M/MI	4806.023	CU M
SP6	Day 6	09.02.2004	21.2	0.3917200	CU M/MI	4807.992	CU M
SP6	Day 6	09.02.2004	21.25	0.3942800	CU M/MI	4809.773	CU M
SP6	Day 6	09.02.2004	21.3	0.0108800	CU M/MI	4811.629	CU M
SP6	Day 6	09.02.2004	21.35	0.3942800	CU M/MI	4813.561	CU M
SP6	Day 6	09.02.2004	21.4	0.3960300	CU M/MI	4815.341	CU M
SP6	Day 6	09.02.2004	21.45	0.3952800	CU M/MI	4817.348	CU M
SP6	Day 6	09.02.2004	21.5	0.3958400	CU M/MI	4819.129	CU M
SP6	Day 6	09.02.2004	21.55	0.3953800	CU M/MI	4821.023	CU M
SP6	Day 6	09.02.2004	22	0.3947300	CU M/MI	4822.803	CU M
SP6	Day 6	09.02.2004	22.05	0.3954900	CU M/MI	4824.621	CU M
SP6	Day 6	09.02.2004	22.1	0.0029900	CU M/MI	4825.379	CU M
SP6	Day 6	09.02.2004	22.15	0.3929400	CU M/MI	4826.705	CU M
SP6	Day 6	09.02.2004	22.2	0.0035500	CU M/MI	4827.652	CU M
SP6	Day 6	09.02.2004	22.25	0.0191500	CU M/MI	4828.674	CU M
SP6	Day 6	09.02.2004	22.3	0.3910200	CU M/MI	4829.545	CU M
SP6	Day 6	09.02.2004	22.35	0.3954800	CU M/MI	4831.364	CU M
SP6	Day 6	09.02.2004	22.4	0.3989400	CU M/MI	4833.144	CU M
SP6	Day 6	09.02.2004	22.45	0.3970900	CU M/MI	4834.962	CU M

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Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 6	09.02.2004	22.5	0.3901300	CU M/MI	4836.780	CU M
SP6	Day 6	09.02.2004	22.55	0.0108900	CU M/MI	4838.636	CU M
SP6	Day 6	09.02.2004	23	0.3981300	CU M/MI	4840.530	CU M
SP6	Day 6	09.02.2004	23.05	0.3967100	CU M/MI	4842.348	CU M
SP6	Day 6	09.02.2004	23.1	0.3970100	CU M/MI	4844.129	CU M
SP6	Day 6	09.02.2004	23.15	0.3972100	CU M/MI	4845.909	CU M
SP6	Day 6	09.02.2004	23.2	0.3973500	CU M/MI	4847.689	CU M
SP6	Day 6	09.02.2004	23.25	0.3982300	CU M/MI	4849.470	CU M
SP6	Day 6	09.02.2004	23.3	0.3986400	CU M/MI	4851.288	CU M
SP6	Day 6	09.02.2004	23.35	0.0025700	CU M/MI	4852.652	CU M
SP6	Day 6	09.02.2004	23.4	0.3947900	CU M/MI	4852.879	CU M
SP6	Day 6	09.02.2004	23.45	0.0029600	CU M/MI	4853.295	CU M
SP6	Day 6	09.02.2004	23.5	0.0027000	CU M/MI	4853.295	CU M
SP6	Day 6	09.02.2004	23.55	0.0067800	CU M/MI	4854.318	CU M
SP6	Day 7	09.03.2004	6	0.0193700	CU M/MI	4930.038	CU M
SP6	Day 7	09.03.2004	6.05	0.3877000	CU M/MI	4930.871	CU M
SP6	Day 7	09.03.2004	6.1	0.3758900	CU M/MI	4931.629	CU M
SP6	Day 7	09.03.2004	6.15	0.0064300	CU M/MI	4932.803	CU M
SP6	Day 7	09.03.2004	6.2	0.3755200	CU M/MI	4934.470	CU M
SP6	Day 7	09.03.2004	6.25	0.3725200	CU M/MI	4936.023	CU M
SP6	Day 7	09.03.2004	6.3	0.3747100	CU M/MI	4937.614	CU M
SP6	Day 7	09.03.2004	6.35	0.0093700	CU M/MI	4939.205	CU M
SP6	Day 7	09.03.2004	6.4	0.3747000	CU M/MI	4940.909	CU M
SP6	Day 7	09.03.2004	6.45	0.3754400	CU M/MI	4942.500	CU M
SP6	Day 7	09.03.2004	6.5	0.3811400	CU M/MI	4944.091	CU M
SP6	Day 7	09.03.2004	6.55	0.3661700	CU M/MI	4945.682	CU M
SP6	Day 7	09.03.2004	7	0.0624700	CU M/MI	4947.424	CU M
SP6	Day 7	09.03.2004	7.05	0.3793800	CU M/MI	4949.053	CU M
SP6	Day 7	09.03.2004	7.1	0.3829400	CU M/MI	4950.644	CU M
SP6	Day 7	09.03.2004	7.15	0.3826900	CU M/MI	4952.273	CU M
SP6	Day 7	09.03.2004	7.2	0.0108500	CU M/MI	4953.902	CU M
SP6	Day 7	09.03.2004	7.25	0.3809800	CU M/MI	4955.644	CU M
SP6	Day 7	09.03.2004	7.3	0.3835500	CU M/MI	4957.273	CU M
SP6	Day 7	09.03.2004	7.35	0.3869000	CU M/MI	4958.902	CU M
SP6	Day 7	09.03.2004	7.4	0.3734000	CU M/MI	4960.568	CU M
SP6	Day 7	09.03.2004	7.45	0.0425200	CU M/MI	4962.311	CU M
SP6	Day 7	09.03.2004	7.5	0.0191200	CU M/MI	4963.902	CU M
SP6	Day 7	09.03.2004	7.55	0.3927800	CU M/MI	4964.924	CU M
SP6	Day 7	09.03.2004	8	0.3925200	CU M/MI	4965.795	CU M
SP6	Day 7	09.03.2004	8.05	0.0023800	CU M/MI	4966.742	CU M
SP6	Day 7	09.03.2004	8.1	0.0044700	CU M/MI	4967.879	CU M
SP6	Day 7	09.03.2004	8.15	0.3942900	CU M/MI	4969.015	CU M
SP6	Day 7	09.03.2004	8.2	0.3969000	CU M/MI	4969.848	CU M
SP6	Day 7	09.03.2004	8.25	0.3689700	CU M/MI	4970.720	CU M
SP6	Day 7	09.03.2004	8.3	0.0030300	CU M/MI	4971.818	CU M
SP6	Day 7	09.03.2004	8.35	0.0153600	CU M/MI	4972.955	CU M
SP6	Day 7	09.03.2004	8.4	0.3973900	CU M/MI	4973.902	CU M
SP6	Day 7	09.03.2004	8.45	0.3925700	CU M/MI	4974.773	CU M
SP6	Day 7	09.03.2004	8.5	0.0023400	CU M/MI	4975.720	CU M
SP6	Day 7	09.03.2004	8.55	0.0048600	CU M/MI	4976.818	CU M
SP6	Day 7	09.03.2004	9	0.3546000	CU M/MI	4977.879	CU M
SP6	Day 7	09.03.2004	9.05	0.3985000	CU M/MI	4978.750	CU M
SP6	Day 7	09.03.2004	9.1	0.3658900	CU M/MI	4979.583	CU M
SP6	Day 7	09.03.2004	9.15	0.0030100	CU M/MI	4980.682	CU M
SP6	Day 7	09.03.2004	9.2	0.0163700	CU M/MI	4981.780	CU M
SP6	Day 7	09.03.2004	9.25	0.3982600	CU M/MI	4982.689	CU M
SP6	Day 7	09.03.2004	9.3	0.3906200	CU M/MI	4983.561	CU M
SP6	Day 7	09.03.2004	9.35	0.0025700	CU M/MI	4984.508	CU M
SP6	Day 7	09.03.2004	9.4	0.0043800	CU M/MI	4985.568	CU M

Appendix B
Raw Flow from Effluent (SP-6)
23 August Through 3 September 2004

Sampling Point	Day	Date	Time	Flow	Flow Units	Total Flow	Flow Units
SP6	Day 7	09.03.2004	9.45	0.3982500	CU M/MI	4986.629	CU M
SP6	Day 7	09.03.2004	9.5	0.3983400	CU M/MI	4987.462	CU M
SP6	Day 7	09.03.2004	9.55	0.3427200	CU M/MI	4988.295	CU M
SP6	Day 7	09.03.2004	10	0.0029200	CU M/MI	4989.394	CU M
SP6	Day 7	09.03.2004	10.05	0.0135000	CU M/MI	4990.417	CU M

Appendix C

INTERVIEW RESULTS FOR ACTIVITIES THAT IMPACT WASTEWATER GENERATION

GRAYWATER GENERATION DATA SHEET

Vessel: Island Princess
Date:
Recorded By: Donald F Anderson

Vessel Point(s) of Contact: Pero Batinic, Environmental Officer

Number of Passengers and Number of Crew Actually on Board:
Passengers: **2019**
Crew: **906**

Unusual Maintenance or Operational Activities Described By Vessel Point(s) of Contact:
None

Number and Time of Meals Served by Day (include passengers and crew) :
Food & Beverage Director: Osvaldo
Total: ~10,000 meals/day based on 3+ meals per person per day
Approx. Times:
Breakfast: 0600 - 1030
Lunch: 1100 - 1500
Dinner: 1630 - 2330
Other Meals: Room service, bars, etc.

Were **Dishwashers** Operated? (Circle one) **Yes** / No in all galleys, some 24/7
- All food preparation occurs immediately adjacent to all main galleys
- 10 main dishwashers operate essentially continuously - 24/7
- MSDSs provided for chemicals used in dishwashers - Approved Chemicals List from Princess Cruises corporate HQ
- Same operations and chemicals used in crew galleys
- SOMAT food pulping machines produce ~ 120 tons/day (wet); some solids incinerated
- Floor washing using "Encomp"
- Approx. water volume used in dishwashers:

What times were dishes washed by day?
Estimated volume of water per load:
Detergent name (obtain MSDS if available): See list of approved chemicals

Housekeeping Director: Angelo
Was **laundry** washed? (Circle one) **Yes** / No
If yes, number of hours per day laundry was operated:
Detergent and other chemicals names (obtain MSDS if available):
If yes, what weight, number of pieces, or number of loads were washed?
- 40 lbs per load;
- Passenger launderettes: two per passenger deck, except deck #7
- Crew launderettes: decks #2, #4, #12
- One large continuous tunnel washer for towels, linens; operates 0800 - 1500; 2000 - 0100
  - computer controlled with auto-scaling of entering materials then measured chemical dispensing in tunnel
  - counter-current flow from cleanest at outlet to dirtiest at inlet; floor around machine is

diked
    - menu of 10 - 15 mixes of chemicals depending upon material, degree of soiling
- Five large driers for tunnel washer; 50 lbs per machine
- Two large washing machines for blankets; 300 lbs ea, 10 loads per day
- Two small washing machines for passenger's personal items: 50 lbs per machine; number of loads per machine per day varies; typically operate 2000 - 0600

Estimated volume of water per load:
Are there floor drains in the laundry? Yes
Other Sources (e.g., small pantries, steward stations, cleaning stations):
Times these sources are generated:
Estimated volume per source:

- Dry cleaning area of laundry:
    - One Renzacci machine; five loads per day w/ auto-distillation of solvent (perc); "spent" perc was only 5 liters for ~ 7 ½ months (Jan - Aug '04)
    - Two Aquadex machines; approx 15 loads per day; water-based chemical - waste asserted to be non-hazardous
    - No sink, no drain, secondary containment
- MSDSs present for list of approved chemicals used

SPECIAL WASTES GENERATION AND DISPOSITION DATA SHEET

Vessel: Island Princess
Date: 8/30/04
Recorded by: Donald F Anderson

Photo Lab(s) On Board: yes or no (circle one) Deck #3
Waste handling and disposition:

- No wastewater treatment
- All three printers are digital
- Any residual chemicals are collected in three 50 gal drums which are off loaded in Vancouver, BC for disposal as HW
- Wastes are not analyzed for Silver content

Any waste treatment (e.g., silver recovery in photo lab)? No

Inspect area for floor drains. Are drains blocked or open? Where do the floor drains lead? Describe any streams that enter the floor drains.

- Two floor drains are capped
- Any floor spillage is captured to in-room storage vessel for shore disposal

Inspect area for sinks. Is sink(s) drain blocked or open? What is the disposition of sink(s) water? What wastewater streams enter or potentially enter the sink(s) (e.g., hand washing, rinse/clean equipment, prepare chemical solutions, etc.)

- Yes a sink is present but drain is isolated and drainage captured for shore disposal

Inspect area for chemical storage. Are chemicals stored over a sump or other secondary containment?

- Chemical tanks (starter, developer, stabilizer, replenisher, etc.; from list of approved chemicals) within secondary containment
- MSDSs present for list of approved chemicals used

Print Shop(s) On Board: yes or no (circle one) Deck #3
Waste handling and disposition:
Any waste treatment (e.g., silver recovery in photo lab)?

- No
- Any residuals (e.g., cleaning rags with solvents / chemical residues) are off loaded for disposal as hazardous waste on shore

Inspect area for floor drains. Are drains blocked or open? Where do the floor drains lead? Describe any streams that enter the floor drains.

- One floor drain is capped
- Any floor spillage is captured to in-room storage vessel for shore disposal

Inspect area for sinks. Is sink(s) drain blocked or open? What is the disposition of sink(s) water? What wastewater streams enter or potentially enter the sink(s) (e.g., hand washing, rinse/clean equipment, prepare chemical solutions, etc.)

- Yes a sink is present but drain is isolated and drainage captured for shore disposal

Inspect area for chemical storage. Are chemicals stored over a sump or other secondary containment?

- Chemicals in closed locker, with no drain
- MSDSs present for list of approved chemicals used

Chemical Storage Area On Board: yes or no (circle one)
Waste handling and disposition:

- Any spills from engine room storage areas go to bilge; bilge compartments generally segregated and pumpable to appropriate storage and disposal (HW, Non HW, etc)
- Each storage area has MSDSs present for list of approved chemicals used; eye wash(s) nearby
- Almost all chemicals asserted to be on Approved Chemicals List (ACL - Princess Cruises; e.g., housekeeping, etc.)

Any waste treatment (e.g., silver recovery in photo lab)?

- Any oily wastes from bilges go to oil / water separator

Inspect area for floor drains. Are drains blocked or open? Where do the floor drains lead? Describe any streams that enter the floor drains.

Inspect area for chemical storage. Are chemicals stored over a sump or other secondary containment?

- Engine room stores - degreasers, defoamers, paints, other "industrial use" and water treatment chemicals (hypochlorite), etc
  - Engine Rm. storage area #1*: (* - author defined): water treatment compartment - hypochlorite, coagulants, etc. - some secondary containment
  - Engine Rm. storage area #2: HCl, $Na_2S_2$03, hypochlorite, compressor lubes, etc. - spillage to bilge which can be pumped to storage for appropriate disposal
  - Engine Rm. storage area #3: Muriatic acid, Metal Brite (phosphoric acid), engine room lube oils, etc. - some secondary containment
  - Engine Rm. storage area #4: Alkaline chemicals, segregated from acid chemicals (e.g., Engine Rm. storage area #3) - some secondary containment
  - Engine Rm. storage area #5: Dry sludge, oily rags - off loaded in Vancouver, BC for disposal
- Store rooms on Deck 3 and other decks / locations as noted
  - Deck 3, #1 - chemical storage: acids, alkalies, oxidizers separated with labels on floors; no extra space for separate storage of acids, alkalies, oxidizers, flammables; dikes, no drains
  - Deck 3, #2 - Paper and print shop chemicals; no drains
  - Rm #6103 - deck cleaner; sink drains to GW, some secondary containment, no drain
  - Rm #6101, #6105 - paint, polyurethane, acetone, WD 40, etc., kept in lockers, no drains
  - Rm #10101: sink with drain (hand washing only) to GW; perchloroethylene dry cleaning fluid storage; no drain, thus warning posted for no chemical pump
  - Rm #8101 (forward / bow / SB): locker for housekeeping chemicals, no drain
  - Rm #8107 (forward / bow / SB): locker for housekeeping chemicals, acids (e.g., sulfamic acid), matches in locked safety cabinet, no drain

Medical Infirmary On Board: yes or no (circle one) Deck #3
Waste handling and disposition:
Any waste treatment (e.g., silver recovery in photo lab)? No

Inspect area for floor drains. Are drains blocked or open? Where do the floor drains lead? Describe any streams that enter the floor drains.

- Floor drains to GW
- No floor drain in digital imaging room

Inspect area for sinks. Is sink(s) drain blocked or open? What is the disposition of sink(s) water?

- Sinks drain to GW.

What wastewater streams enter or potentially enter the sink(s) (e.g., hand washing, rinse/clean equipment, prepare chemical solutions, etc.)

- Hand washing only; no chemical dumping through sinks.

Inspect area for chemical storage. Are chemicals stored over a sump or other secondary containment?

- Digital imaging is used exclusively, no X-Ray developing chemicals present
- Any clean up wastes collected by EO for on-shore disposal

Garbage Room On Board: yes or no (circle one)
Waste handling and disposition:
Any waste treatment (e.g., silver recovery in photo lab)?

- Room is refrigerated, no treatment, only solid / wet waste separation / crushing equipment (e.g., glass, aluminum and tin cans, box board, wet garbage; flourescent tubes, batteries for separate disposal, etc)

Inspect area for floor drains. Are drains blocked or open? Where do the floor drains lead? Describe any streams that enter the floor drains.

- Two drains to bilge and oil / water separator (OWS)

Inspect area for sinks. Is sink(s) drain blocked or open? What is the disposition of sink(s) water? What wastewater streams enter or potentially enter the sink(s) (e.g., hand washing, rinse/clean equipment, prepare chemical solutions, etc.)

- Hand washing only

Inspect area for chemical storage. Are chemicals stored over a sump or other secondary containment?

- Hazardous chemical locker with no drains

PESTICIDE, FUNGICIDE, AND RODENTICIDE USE DATA SHEET

Vessel: Island Princess
Date: 8/30/04
Recorded by: Donald F Anderson

Pesticides Used On Board: yes or no (circle one)

- **No liquid pesticides are used**
- bate for cockroaches is solid, certified for use; see Princess Cruises / IP manual (06/2002)

Pesticide Name	Target Pest(s)	Amount Used/yr	MSDS Obtained (yes/no)
See ACL_____	_____	_____	_____

List Locations Where Pesticides are Normally Applied and Stored On Board and Dates Applied:

- Various, as needed

Potential to Enter Graywater/Blackwater Systems (e.g., application, spills, floor drains)?

- Minimal; only if picked up by cleaning water is used

Person(s) Responsible for Pesticide Application: EO, housekeeping

Fungicides Used On Board: yes or **no** (circle one) None

Fungicide Name	Target Fungi	Amount Used/yr	MSDS Obtained (yes/no)

List Locations Where Fungicides are Normally Applied and Stored On Board and Dates Applied: NA
Potential to Enter Graywater/Blackwater Systems (e.g., application, spills, floor drains)? NA
Person(s) Responsible for Fungicide Application: NA

Rodenticides Used On Board: yes or **no** (circle one) None

Rodenticide Name	Target Rodent	Amount Used/yr	MSDS Obtained (yes/no)

List Locations Where Rodenticides are Normally Applied and Stored On Board and Dates Applied: NA
Potential to Enter Graywater/Blackwater Systems (e.g., application, spills, floor drains)? NA
Person(s) Responsible for Rodenticide Application: NA

COLLECTION, HOLDING, AND TRANSFER (CHT) TANK DATA SHEET

Vessel: Island Princess
Date: 9/1/04
Recorded by: Donald F Anderson

See information submitted with Vessel Specific Sampling Plan (VSSP) for Island Princess submitted to ADEC, Enclosure #2, V.3, dtd 4/29/04

Tank Number or Identification:
Wastewater Source(s):
Tank Volume:_____ m^3 or gallons
Does the Tank Have Vacuum: yes or no (circle one):
Vacuum: ____ mm Hg
Tank Material of Construction:
Is this a double bottom tank: yes or no (circle one)?
Normal Operating Volume: _____ m^3

Automated Tank Gauging and Discharge System: **yes** or no (circle one) Digital via control room

Discharge Type: batch or continuous (circle one)
Totalizer or Flow Meter on Discharge Line: yes or no (circle one)
Discharge Flow Rate: _____ m^3/min or m^3/day
Wastewater Destination After Leaving the Tank:
Approximate Diameter of Discharge Line: _____ inches
Screens or Filters Present on Either Influent or Discharge Lines (describe):

Chemical Additions to Tank:

Chemical Name	Purpose	Amount	MSDS (yes/no)
_____	_____	_____ kg/day	_____
_____	_____	_____ kg/day	_____
_____	_____	_____ kg/day	_____

Is sludge removed from this tank (describe frequency, amount, destination)?:

WASTEWATER TREATMENT UNIT DATA SHEET

Vessel: Island Princess
Date: 9/2/04
Recorded by: Donald F Anderson

Description of Treatment Unit: MBR

Manufacturer: Hamworthy

Model: Not specified; some modifications made on board by crew

Design Drawings Obtained: yes or **no** (circle one)

- all online / on board but too numerous and most far too detailed for purposes; would require immense effort to obtain on board; basic diagrams (e.g., screen shots) and system costs requested from Leslie Geiger, Princess Cruises in 9/3 email as followup
- Other information supplied while on board by Rosario Segreto, CE; see below

Design Capacity: _____ gpd or gpm (circle one)

Typical Operating Flow Rate: ~ 450-600 cubic meters per day_ gpd or gpm (circle one)

Operational period: _____ hours 24 / 7 / 365

Chemical Additions: None added

Chemical	Amount	Units	MSDS Obtained

Electrical Requirements:

Volts: _____ Amps: _____ Horsepower: _____

Sludge Generation: **yes** or no (circle one)
If yes, describe frequency, amount, and destination: Approx. 10 metric tons per week

Was maintenance performed on treatment unit: **yes** or no (circle one)

- System taken down for maintenance 8/30, 1200 - 1600, per Rosario Segreto, CE; MBR maintenance, and also including use of $HClO_3$ to clean over board discharge pipe; other activities, if any, not noted

If maintenance was performed, estimate labor: __4____ hours

List operating parameters recorded (e.g., flow, temperature, pressure, pH), typical values, and range for this unit. Record or obtain copy or printout of logs for the duration of the sampling episode.

SOURCE WATER DATA SHEET

Vessel: Island Princess
Date: 9/2/04
Recorded by: Donald F Anderson

Is Potable Water Generated On Board the Vessel: **yes** or no (circle one)

- Evaporators - six effects, 700 metric tons per day each set, three sets; 2100 tons per day total capacity
- Remainder of reserve capacity from bunkering municipal water up to ~ 850 tons per day, from Vancouver, Skagway, Juneau, Ketchikan

Describe the On-Board Potable Water Treatment and Disinfection Method:

- Chlorination to PHS stds using hypochlorite with acidification

Port (City) Where Source Water is Obtained if Not Generated On Board:

- Vancouver, Skagway, Juneau, Ketchikan

Treatment Method for Source Water Obtained in Port:

- See publicly available sources for cities / water supplies noted above

Disinfection Method for Source Water Obtained in Port:

- PHS-based method: Checked for fecal coliform; Hypochlorite add to 5 ppm, retested after 24 hrs, if residual hypo equal to or greater than 3 ppm, OK, if not water is dumped

Fluoride Added to Water Obtained in Port: yes or **no** (circle one)

Additional Disinfection Performed On Water Obtained in Port: yes or **no** (circle one)

- See above for primary method

Describe Additional On-Board Disinfection Method: None

Description of Source Water Sample Collection Point On Board Cruse Ship: Various - at supply tanks and ends of piping runs on upper decks

Appendix D

DATA REVIEW NARRATIVES AND OTHER ISSUES

Quality Assurance Review of Laboratory Data Collected From Large Cruise Ships in Alaska Waters

Sampling Episode 6505

Data Validation Report For BOD_5 Samples

Prepared By:

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Chantilly, Virginia 20151

February 9, 2005

BOD_5 Method 405.1

Completeness

During Sampling Episode 6505, all 32 samples (excluding QC samples) that were identified in the Sampling and Analysis Plan for the Island Princess (Sampling Episode 6505) were collected for analysis of 5-day Biochemical Oxygen Demand (BOD_5) by EPA Method 405.1. Sample numbers ranged between 65591 and 65753. Sampling completeness for this episode was 100% (all planned samples were collected).

The data package submitted by the analytical laboratory, Analytica Alaska Southeast, contained complete BOD_5 data for all submitted samples. A list of the samples collected and analyzed during Sampling Episode 6505 is provided in Table 1.

Table 1. BOD_5 Samples Collected During Sampling Episode 6505

Sample Numbers	Sample Point Description
65651, 65655, 65659, 65663, 65667	Treatment System Influent
65691, 65695, 65699, 65703, 65707, 65711, 65715, 65727	Treatment System Effluent
65631, 65635, 65639, 65643, 65647	Accommodations
65591, 65595, 65599, 65603, 65607	Galley
65611, 65615, 65619, 65623, 65627	Laundry
65731	Galley Overboard
65733	Laundry Overboard
65737	Food Pulper Overboard
65753	Source Water

According to the Quality Assurance Project Plan (QAPP) developed for the Rulemaking Support for Large Cruise Ships in Alaska Waters, sampling completeness is the number of valid samples collected relative to the number of samples planned for collection; analytical completeness is the number of valid sample measurements relative to the number of valid samples collected; and overall completeness is the number of valid sample measurements relative to the number of samples planned for collection. For the cruise ship sampling program a minimum goal of 90% completeness for sampling and analytical completeness has been established, and a minimum goal of 81% for overall completeness (determined by multiplying sampling and analytical completeness goals) has been established.

As a result of a shipping delay, 6 samples collected for BOD_5 analysis arrived at the laboratory five days following collection. According to Method 405.1, BOD_5 samples should be

analyzed within 48 hours following collection. Although the BOD_5 samples were analyzed upon receipt at the laboratory, the results are not considered valid. Therefore, for Sampling Episode 6505 both laboratory completeness and overall completeness for BOD_5 is 81%.

Holding Times

Method 405.1 requires that all BOD_5 samples be analyzed within 48 hours following collection. Analysis of traffic reports and laboratory data sheets indicates 6 of the 32 BOD_5 samples were analyzed outside the 48 hour hold time window. Table 2 shows the sample numbers, the total hold time from collection to analysis, and the measured BOD_5 result for the six samples analyzed past the method-specified holding time.

Table 2. BOD_5 Samples Exceeding Hold Times

Sample Number	Sample Description	Sample Hold Time	Method Hold Time	BOD_5 Result
65647	Accommodations Wastewater	133 hours	48 hours	112 mg/L
65707	Treatment System Effluent	134 hours	48 hours	<2 mg/L
65607	Galley Wastewater	134.5 hours	48 hours	1,630 mg/L
65727	Treatment System Effluent	134.2 hours	48 hours	<2 mg/L
65667	Treatment System Influent	133.6 hours	48 hours	281 mg/L
65627	Laundry Wastewater	134.5 hours	48 hours	102 mg/L

Because the holding time was exceeded by nearly 3 days (approximately 86 hours) for the six samples shown in Table 2, this BOD_5 data are not considered valid and should not be used in analyses for the cruise ship rulemaking. Accordingly, these results will be excluded from the analytical database.

Calibration

The calibration was performed with method blanks and glucose spiked blanks to verify seed effectiveness and analytical technique. Method blanks consist of potable water passed through an activated carbon bed to remove residual organic compounds. During Sampling Episode 6505, a total of six method blanks were prepared and analyzed for BOD_5. Five of the six method blanks had BOD_5 concentrations less than 2 mg/L. One method blank had a measured BOD_5 concentration of 3 mg/L. ERG reviewed the BOD_5 results associated with the elevated blank to determine the impact of the blank on the sample results. All of the associated

sample results were either nondetect or were greater than 10 times the blank result, indicating that the presence of BOD_5 in the blank did not adversely affect the data.

To verify seed effectiveness and analytical technique, method blanks were spiked with a sufficient amount of glucose to yield a theoretical BOD_5 concentration of 200 mg/L. Spiked method blanks are then analyzed for BOD_5, and results of the analysis, reported as percent recovery, are compared to the recovery limits for Method 405.1. Table 3 shows the results of the spiked samples.

Table 3. Analysis of BOD_5 Recovery Data for Spiked Method Blanks

Sample	Spike Result	Spike Level	Recovery	Recovery Limits
Method Blank	181 mg/L	200 mg/L	90.5%	60% - 140 %
Method Blank	167 mg/L	200 mg/L	83.5%	60% - 140%
Method Blank	169 mg/L	200 mg/L	84.5%	60% - 140%
Method Blank	153 mg/L	200 mg/L	76.5%	60% - 140%
Method Blank	157 mg/L	200 mg/L	78.5%	60% - 140%
Method Blank	151 mg/L	200 mg/L	75.5%	60% - 140%
Method Blank	166 mg/L	200 mg/L	83.0%	60% - 140%
Method Blank	183 mg/L	200 mg/L	91.5%	60% - 140%
Method Blank	210 mg/L	200 mg/L	105%	60% - 140%
Method Blank	153 mg/L	200 mg/L	76.5%	60% - 140%
Method Blank	154 mg/L	200 mg/L	77.0%	60% - 140%

Results of the spiked method blank samples indicate all recoveries are within the method/QAPP specified targets.

Precision Analysis

Reproducibility for BOD_5 is measured as relative percent difference (RPD) between duplicate samples. Laboratory duplicate samples measure the precision of the method and analyst by comparing the results of two separate analyses on the same wastewater sample. Field duplicate samples measure the precision of the field sampling method by comparing the BOD_5 results for split wastewater samples prepared in the field. The QAPP for the Cruse Ship Rulemaking provides RPD targets for all laboratory duplicate samples and field duplicate samples as less than 20% and 30%, respectively.

Table 4 shows the RPD results for laboratory duplicate samples and method blank spiked samples. The RPDs shown in Table 4 indicate the five method blank spiked duplicate samples are within the RPD target. For samples 65691 and 65695, the RPDs cannot be calculated because the results were reported as less than the detection limit. The BOD_5 results obtained from these samples are expected, since each was collected from treatment system effluent. Although actual RPDs could not be calculated, the results do indicate that laboratory precision is acceptable.

Table 4. Relative Percent Difference Between Laboratory Duplicate Samples

Sample No.	BOD_5 Result	Duplicate BOD_5 Result	RPD	RPD Target
Spiked Method Blank	181 mg/L	167 mg/L	8.0%	<20%
Spiked Method Blank	169 mg/L	153 mg/L	9.9%	<20%
Spiked Method Blank	157 mg/L	151 mg/L	3.9%	<20%
Spiked Method Blank	166 mg/L	183 mg/L	9.7%	<20%
Spiked Method Blank	153 mg/L	154 mg/L	0.7%	<20%
65691	<2 mg/L	<2 mg/L	NA	<20%
65695	<2 mg/L	<2 mg/L	NA	<20%

RPD target from QAPP for Rulemaking Support for Large Cruise Ships in Alaska Waters, May 2004.
NA: RPD can not be calculated since one or both results is less than the analytical detection limit.

Table 5 shows the RPD results for field duplicate samples. (Note that one set of field duplicate samples (samples 65707and 65727) were among those samples that were analyzed outside the 48-hour holding time and are consequently not included in Table 5.) Measured BOD_5 concentrations in each of the field duplicate samples is less than the laboratory detection limit of 2 mg/L; therefore, the RPDs cannot be calculated. The BOD_5 results obtained from these samples are expected since each was collected from treatment system effluent. Although actual RPDs could not be calculated, the results do indicate that laboratory and field precision is acceptable.

Table 5. Relative Percent Difference Between Field Duplicate Samples

Sample No.	BOD_5 Result	Sample No.	BOD_5 Result	RPD	RPD Target
65691	< 2 mg/L	65711	< 2 mg/L	NA	<30%
65695	< 2 mg/L	65715	< 2 mg/L	NA	<30%

RPD target from QAPP for Rulemaking Support for Large Cruise Ships in Alaska Waters, May 2004.
NA: RPD can not be calculated since one for both results is less than detection (2 mg/L)

Data Quality Assessment

This data validation assessment indicates the BOD_5 data collected during Sampling Episode 6505 can be used for the large cruise ship rulemaking effort, with the exception of those samples that were analyzed outside the holding time of 48 hours.

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MEMORANDUM

DATE: February 3, 2005

TO: Don Anderson, Project Officer
EPA EAD

FROM: Sara Clark, Quality Assurance Chemist
Sample Control Center

SUBJECT: Data Review Narrative for Classical Analyses for the Alaskan Cruise Ship Industry, Episode 6505

OVERVIEW

Under EPA Contract Number 68-C-03-068, Analytical Laboratory Services, Inc. (ALSI) submitted classical wet chemistry data for 36 samples in Episode 6505. Table 1 provides a listing of samples, matrices, descriptions, sampling dates, and the required analytes.

Table 1 - Sample Identifiers, Descriptions, Sampling Dates, and Analytes

EPA Sample #	Matrix	Sample Description	Sampling Date	Analytes
65591	Aqueous	SP1, Galley wastewater	08/29/04	alkalinity, ammonia-N, COD, chloride, nitrate/nitrite, sulfate, total phosphorus, TKN, TDS, TSS, TOC, total cyanide, HEM, SGT-HEM
65595	Aqueous	SP1, Galley wastewater	08/30/04	
65599	Aqueous	SP1, Galley wastewater	08/31/04	
65603	Aqueous	SP1, Galley wastewater	08/31/04 (a), 09/01/04 (b)	
65607	Aqueous	SP1, Galley wastewater	09/02/04	
65611	Aqueous	SP2, Laundry wastewater	08/29/04	alkalinity, ammonia-N, COD, chloride, nitrate/nitrite, sulfate, total phosphorus, TKN, TDS, TSS, TOC, total cyanide
65615	Aqueous	SP2, Laundry wastewater	08/30/04	alkalinity, ammonia-N, COD, chloride, nitrate/nitrite, sulfate, total phosphorus, TKN, TDS, TSS, TOC, total cyanide, HEM, SGT-HEM
65619	Aqueous	SP2, Laundry wastewater	08/31/04	
65623	Aqueous	SP2, Laundry wastewater	08/31/04 (a), 09/01/04 (b)	
65627	Aqueous	SP2, Laundry wastewater	09/02/04	
65631	Aqueous	SP3, Accommodations wastewater	08/29/04	
65635	Aqueous	SP3, Accommodations wastewater	08/30/04	
65639	Aqueous	SP3, Accommodations wastewater	08/31/04	

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Table 1 - Sample Identifiers, Descriptions, Sampling Dates, and Analytes

EPA Sample #	Matrix	Sample Description	Sampling Date	Analytes
65643	Aqueous	SP3, Accommodations wastewater	08/31/04 (a), 09/01/04 (b)	alkalinity, ammonia-N, COD, chloride, nitrate/nitrite, sulfate, total phosphorus, TKN, TDS, TSS, TOC, total cyanide, HEM, SGT-HEM
65647	Aqueous	SP3, Accommodations wastewater	09/02/04	
65651	Aqueous	SP4, Influent to wastewater treatment	08/29/04	
65655	Aqueous	SP4, Influent to wastewater treatment	08/30/04	
65659	Aqueous	SP4, Influent to wastewater treatment	08/31/04	
65663	Aqueous	SP4, Influent to wastewater treatment	08/31/04 (a), 09/01/04 (b)	
65667	Aqueous	SP4, Influent to wastewater treatment	09/02/04	
65691	Aqueous	SP6, Effluent from wastewater treatment	08/29/04	
65695	Aqueous	SP6, Effluent from wastewater treatment	08/30/04	
65699	Aqueous	SP6, Effluent from wastewater treatment	08/31/04	
65703	Aqueous	SP6, Effluent from wastewater treatment	08/31/04 (a), 09/01/04 (b)	
65707	Aqueous	SP6, Effluent from wastewater treatment	09/02/04	
65711	Aqueous	SP7, Effluent from wastewater treatment	08/29/04	total cyanide
65715	Aqueous	SP7, Effluent from wastewater treatment	08/30/04	total cyanide
65719	Aqueous	SP7, Effluent from wastewater treatment	08/31/04	alkalinity, ammonia-N, COD, chloride, nitrate/nitrite, sulfate, total phosphorus, TKN, TDS, TSS, TOC, total cyanide
65723	Aqueous	SP7, Effluent from wastewater treatment	09/01/04	alkalinity, ammonia-N, COD, chloride, nitrate/nitrite, sulfate, total phosphorus, TKN, TDS, TSS, TOC
65727	Aqueous	SP7, Effluent from wastewater treatment	09/02/04	
65731	Aqueous	SP8, Galley wastewater	08/26/04	alkalinity, ammonia-N, COD, chloride, nitrate/nitrite, sulfate, total phosphorus, TKN, TDS, TSS, TOC, total cyanide, HEM, SGT-HEM

Table 1 - Sample Identifiers, Descriptions, Sampling Dates, and Analytes

EPA Sample #	Matrix	Sample Description	Sampling Date	Analytes
65733	Aqueous	SP9, Laundry wastewater	08/26/04	alkalinity, ammonia-N, COD, chloride, nitrate/nitrite, sulfate, total phosphorus, TKN, TDS, TSS, TOC, total cyanide, HEM, SGT-HEM
65737	Aqueous	SP10, Food pulper	08/26/04	
65741	Solid	SP11, Screening solids	08/30/04	alkalinity, ammonia-N, COD, chloride, nitrate/nitrite, sulfate, total phosphorus, TKN, total solids, TOC, total cyanide
65745	Aqueous	SP12, Biosludge wastewater	08/26/04	alkalinity, ammonia-N, COD, chloride, nitrate/nitrite, sulfate, total phosphorus, TKN, TDS, TSS, TOC, total cyanide
65753	Aqueous	SP14, Source water	08/31/04	ammonia-N, COD, nitrate/nitrite, total phosphorus, TKN, TOC, total cyanide

(a) Sampling date for HEM/SGT HEM
(b) Sampling date for remaining analytes

These data have been reviewed in accordance with SCC's *Data Review Guidelines for Classical Wet Chemistry Analyses* (November 2004) and with the specifications listed in the contract. Below is a summary of the results of the data review process, followed by detailed descriptions of data issues identified with these samples. Based on this review, all data in this episode are considered to be of acceptable quality with the qualifications described below and detailed in the attached data review summary table (Table 2).

SUMMARY

All samples were successfully analyzed within the contract-specified holding times for all classical wet chemistry parameters specified in the sampling and analysis plan. The calibration and continuing calibration standards were successfully analyzed. Laboratory blanks were performed for each analysis, and there was no contamination detected above the laboratory reporting limits. The QC samples, including the ongoing precision and recovery (OPR) sample and matrix spike/matrix spike duplicate (MS/MSD) samples, demonstrated that laboratory performance for these analyses was acceptable, with the exception of the data issues described below.

DATA ISSUES: ALKALINITY

A duplicate analysis was performed on sample 65741. The relative percent difference (RPD) between the results for the original sample and the duplicate was outside the acceptance limit established for the project. Therefore, SCC considers the alkalinity data for sample 65741 to be an estimated value.

DATA ISSUES: SULFATE

A matrix spike and matrix spike duplicate were prepared for sample 65741. The spike recoveries were below the acceptance limits established for the project. The recovery for the laboratory control sample associated with the analysis was acceptable, indicating a probable matrix interference affecting the MS/MSD analyses. Therefore, SCC considers the sulfate data for sample 65741 to be a minimum value.

DATA ISSUES: TKN

A matrix spike and matrix spike duplicate were prepared for sample 65741. The spike recoveries were below the acceptance limits established for the project. The recovery for the laboratory control sample associated with the analysis was acceptable, indicating a probable matrix interference affecting the MS/MSD analyses. Therefore, SCC considers the TKN data for sample 65741 to be a minimum value.

The TKN result (27.6 mg/L) for sample 65691was less than the corresponding ammonia-N result (27.9 mg/L). This situation is theoretically impossible, given that the ammonia-N is a subset of TKN. However the difference in the two results (0.3 mg/L) was within the measurement variability of either method. Therefore, SCC considers the TKN data in this sample to be of acceptable quality.

DATA ISSUES: TOTAL PHOSPHORUS

Matrix spike and matrix spike duplicate (MS/MSD) samples were prepared for samples 65719, 65723, 65727, 65731 and 65741. The MS/MSD percent recoveries could not be accurately measured because the samples were spiked at a level significantly lower than the analyte levels detected in the original samples. Because the amount of analyte spiked into the samples did not contribute significantly to the sample result, the MS/MSD samples were treated as sets of duplicate analyses. However, none of the relative percent difference (RPD) values met the specified criteria. Therefore, SCC considers the data for these samples to be estimated values. These cases are detailed in Table 2.

DATA ISSUES: NITRATE/NITRITE

A matrix spike and matrix spike duplicate was prepared for sample 65741. The spike recoveries were below the acceptance limits established for the project. The recovery in the laboratory control sample associated with the analysis was acceptable, indicating a probable matrix interference affecting the MS/MSD analyses. Therefore, SCC considers the nitrate/nitrite data for sample 65741 to be a minimum value.

AVAILABLE CYANIDE GREATER THAN TOTAL CYANIDE

For all samples in this episode, SCC evaluated total cyanide results against available cyanide results, and found that available cyanide was detected in samples 65603, 65659, 65731 and 65745, while total cyanide were not detected in these samples or detected at a lower amount. In theory, the total cyanide results in any given sample will be greater than either the free or available cyanide results for the same sample. However, for these samples, it is important to recognize that the total cyanide is determined using a separate sample from that used for free or available cyanide, and that the available cyanide determination was performed by a different laboratory. In addition, the overall homogeneity of the waste stream being sampled can have a significant effect on the cyanide results. Therefore, it may not be possible to identify problems that would invalidate one cyanide fraction or the other.

The data for total cyanide samples in Episode 6505 were delivered in five separate data packages, each with its own associated QC sample results. Six pairs of MS/MSD samples were prepared for total

cyanide analyses in Episode 6505 on samples 65603 (galley wastewater), 65635 (accommodations wastewater), 65711 (an effluent), 65715 (an effluent), 65719 (an effluent), and 65741 (screening solids).

The data for a seventh pair of MS/MSD samples were delivered in the data package with the results for samples 65731 (galley wastewater) and 65745 (biosolids). However, because of limitations on the sample volume that was provided to the laboratory, the MS/MSD samples were prepared from a non-EPA sample of indeterminate origin and therefore are not useful in evaluating the performance of the total cyanide method on cruise ship samples.

Three of the MS/MSD pairs for aqueous samples and the one MS/MSD pair for the solid samples had acceptable recoveries of total cyanide. None of the samples used to prepare MS/MSD aliquots were samples where the available cyanide results exceeded the total cyanide results.

The MS/MSD results for sample 65603 (galley wastewater) showed recoveries of 59% in both aliquots, which is below the acceptance limits, and suggests a potential low bias in the total cyanide result for that sample. The available cyanide result of 2.2 µg/L is below the detection limit for the total cyanide analysis. Therefore, SCC recommends qualifying the total cyanide result as a minimum value and accepting the available cyanide result as reported.

Although MS/MSD samples were prepared from sample 65741 (screening solids) and met the acceptance criteria, there are no MS/MSD results for the biosolids matrix in this episode. This limits SCC's ability to evaluate the potential effects of the sample matrix for sample 65745 (biosolids), where the available cyanide results are almost 40% higher than the total cyanide results. Therefore, lacking matrix-specific supporting data that might explain the observed differences, SCC recommends including both cyanide results for sample 65745 in the database, but flagging them to indicate the irreconcilable differences.

Sample 65731 is a galley wastewater. The only MS/MSD results for galley wastewater in this episode are for sample 65603, where the recoveries were below the acceptance criteria. Given the potential for low bias in this matrix, SCC recommends qualifying the total cyanide result as a minimum value. SCC recommends including both cyanide results for sample 65731 in the database, but flagging them to indicate the irreconcilable differences.

Sample 65659 is an influent sample and MS/MSD aliquots are not prepared for influents, as discussed earlier. Total cyanide was reported as not detected and the available cyanide was reported at 6 times the total cyanide detection limit. Therefore, lacking matrix-specific supporting data that might explain the observed differences, SCC recommends including both cyanide results for sample 65659 in the database, but flagging them to indicate the irreconcilable differences.

Although there were three pairs of field duplicates collected for cyanide samples in Episode 6505, they all involved effluent samples, none of which showed disparate results between total and available cyanide.

TECHNICAL NOTES:

Silica Gel Treated - Hexane Extractable Material (SGT-HEM)

Samples 65691, 65695, 65699, 65703 and 65707 were not analyzed for SGT-HEM because the HEM results were non-detects. At EPA's request, SCC created SGT-HEM records in the database, but the results for SGT-HEM are reported as NA, with the SCC qualifier "not analyzed due to non-detect HEM result."

If you have any questions regarding the analyses of these samples or the review of these data, please contact SCC's Data Review Team Leader, Pornkeo Chinyavong, by telephone at (703) 461-2346 or by facsimile at (703) 461-8056.

Attachments

cc: Beverly Randolph, EPA
Marla Smith, EPA
Nelson Andrews, EPA
Deb Falatko, ERG
Jodi King, ERG
Deb Miller, CSC
Harry McCarty, CSC
Michael Walsh, CSC
Pornkeo Chinyavong, CSC

Table 2
Data Review Summary Table

Episode: 6505 **Analysis:** Classicals

Industry: Alaska Cruise Ship **Reviewer:** Sara Clark

Sample	Analyte	Action	Reason	SCC Qual	Level
65741	alkalinity	Estimated value	RPD between sample and its duplicate exceeded criteria	NA	2640 mg/kg
65741	sulfate	Minimum value	Matrix interference	NA	3910 mg/kg
65741	TKN	Minimum value	Matrix interference	NA	5150 mg/kg
65719	total phosphorus	Estimated value	RPD between MS/MSD exceed criteria	NA	8.1 mg/L
65723					7.1 mg/L
65727					8.6 mg/L
65731					19.4 mg/L
65741					2760 mg/kg
65741	nitrate/nitrite	Minimum value	Matrix interference	NA	4.0 mg/kg
65603	total cyanide	Minimum value	Low MS/MSD recoveries	NA	ND
65659	total cyanide	Minimum value	Irreconcilable results for total and available cyanide. Results may not be suitable for the intended purpose.	IRR	ND
65731					ND
65745					11 µg/L

IRR = Irreconcilable results for total and available cyanide. Results may not be suitable for the intended purpose
ND = Non-detect at the laboratory's reporting limit. See the level in the database.
NA = Not applicable

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MEMORANDUM

DATE: March 31, 2005

TO: Don Anderson, Project Officer
EPA EAD

FROM: Jody Donnelly, Quality Assurance Chemist JMD
Sample Control Center

SUBJECT: Data Review Narrative for Dioxin/Furan Analysis for the Alaskan Cruise Ship Industry, Episode 6505

OVERVIEW

Under CSC Purchase Order 637415SSD, Axys Analytical Services submitted data for the analysis of dioxins and furans by EPA Method 1613B for one solid sample in Episode 6505. Table 1 provides a list of the sample, matrix, sample description, and the required analytical method.

Table 1 - Sample Identifier, Description, Sampling Date, and Analysis Method

Episode	EPA Sample #	Matrix	Sample Description	Sampling Date	Method
6505	65749	Solid	SP13, Incinerator ash	08/30/04	1613B

These data have been reviewed in accordance with SCC's Data Review Guidelines for Dioxin/Furan Analysis by Method 1613B (November 2004). Below is a summary of the results of the data review process, followed by detailed descriptions of data issues identified with these samples. Based on this review, all data in this episode are considered to be of acceptable quality.

SUMMARY

The sample was successfully extracted and analyzed for the target analytes in EPA Method 1613B within the method-specified holding times. The calibration and continuing calibration standards were successfully analyzed. Preparation blanks performed for the analysis detected no contamination above the laboratory's reporting limits. The QC samples, including the ongoing precision and recovery (OPR) sample, demonstrated that laboratory performance for these analyses was acceptable.

Reporting Limits

The sample was extracted using approximately 5 grams instead of the method-specified 10 grams. As a result, the minimum levels (MLs) provided in the database for sample 65749 increased by approximately a factor of 2. The laboratory's past experience with ash samples shows that they tend to have significant matrix interference, which is why the sample size was reduced. Because the laboratory calibrated their instrument to 5 times lower than the lowest calibration standard specified in Method 1613B, the difference in sample size has no impact on the quality of the data. The MLs provided in the database for these samples reflect the smaller sample size.

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One analyte in sample 65749 was qualified by SCC with a "J" flag, which indicates an estimated result that is below the laboratory's reporting limit but above the method detection limit. This analyte is annotated as such in the database and is detailed in Table 2.

If you have any questions regarding the analysis of this sample or the review of these data, please contact me, by telephone at (703) 461-2203 or by facsimile at (703) 461-8056.

Attachment

cc: Beverly Randolph, EPA
Marla Smith, EPA
Nelson Andrews, EPA
Deb Falatko, ERG
Jodi King, ERG
Deb Miller, CSC
Harry McCarty, CSC

Table 2
Data Review Summary Table

Episode: 6505 **Analysis:** Method 1613B

Industry: Alaskan Cruise Ship **Reviewer:** J. Donnelly

Sample	Analyte	Action	Reason	SCC Qual	Level (ng/kg)
65749	1,2,3,7,8,9-HxCDF	Estimated value	Analyte detected below laboratory's reporting limit but above method detection limit	J	7.30

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MEMORANDUM

DATE: January 19, 2004

TO: Don Anderson, Project Officer
EPA EAD

FROM: Pornkeo Chinyavong, Quality Assurance Chemist PC
Sample Control Center

SUBJECT: Data Review Narrative for Dioxin/Furan Analysis for the Alaskan Cruise Ship Industry, Episode 6505

OVERVIEW

Under EPA Purchase Order EP-C-04-047, Axys Analytical Services submitted data for the analysis of dioxins and furans by EPA Method 1613B for one aqueous sample in Episode 6505. Table 1 provides a list of the sample, matrix, sample description, and the required analytical method.

Table 1 - Sample Identifier, Description, Sampling Date, and Analysis Method

Episode	EPA Sample #	Matrix	Sample Description	Sampling Date	Method
6505	65611	Aqueous	SP2, Laundry Wastewater	8/29/04	1613B

These data have been reviewed in accordance with SCC's Data Review Guidelines for Dioxin/furan Analysis by Method 1613B (November 2004). Below is a summary of the results of the data review process, followed by detailed descriptions of data issues identified with these samples. Based on this review, all data in this episode are considered to be of acceptable quality.

SUMMARY

All samples were successfully extracted and analyzed for the target analytes in EPA Method 1613B within the method-specified holding times. The calibration and continuing calibration standards were successfully analyzed. Preparation blanks performed for the analysis detected no contamination above the laboratory's reporting limits. Instead of using the method-specified clean up procedure, all samples were processed by an automated clean up procedure that employs the Fluid Management System Inc., *"Power-Prep™ System,"* using standard chromatographic clean up columns. The QC samples, including the ongoing precision and recovery (OPR) sample, demonstrated that laboratory performance for these analyses was acceptable. None of the dioxins/furans were detected in sample in this episode.

Reporting Limits

The sample was extracted using less than the method-specified 1000-mL aliquot, due to volume constraints. This variation in sample size increased the minimum levels (MLs) for sample 65611 by 16%. The MLs provided in the database for this sample reflect the smaller sample volume.

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If you have any questions regarding the analysis of this sample or the review of these data, please contact me, by telephone at (703) 461-2346 or by facsimile at (703) 461-8056.

cc: Beverly Randolph, EPA
Marla Smith, EPA
Nelson Andrews, EPA
Deb Falatko, ERG
Jodi King, ERG
Deb Miller, CSC
Harry McCarty, CSC

Quality Assurance Review of Laboratory Data Collected From Large Cruise Ships in Alaska Waters

Sampling Episode 6505

Data Validation Report For Microbiological Analyses

Prepared By:

Eastern Research Group
14555 Avion Parkway, Suite 200
Chantilly, Virginia 20151

February 8, 2005

Enterococci by MPN Method ASTM D6503-99
Fecal Coliform by MF SM 9222D
***E. Coli* by MPN Enzyme Substrate SM 9223B**

Completeness

During Sampling Episode 6505, a total of 87 samples (excluding QC samples) were collected for analysis of enterococci, fecal coliform, and *E. coli* by the methods listed above. Sample numbers ranged between 65591 and 65767. One grab sample (Sample No. 65612) was not collected on Sampling Day 1 at Sampling Point 2 (Laundry Wastewater Characterization) due to lack of wastewater generation at this sampling point, resulting in a sampling completeness of nearly 99%. The data package submitted by the analytical laboratory, Analytica Alaska Southeast, contained complete microbiological data for all submitted samples. A list of the samples collected and analyzed during Sampling Episode 6505 is provided in Table 1.

Table 1. List of Samples and Required Microbiological Analyses for Sampling Episode 6505

Sample Numbers	Sample Point Description
65591, 65592, 65595, 65596, 65599, 65600, 65603, 65604, 65607, 65608	Galley Wastewater
65611, 65615, 65616, 65619, 65620, 65623, 65624, 65627, 65628	Laundry Wastewater
65631, 65632, 65635, 65636, 65639, 65640, 65643, 65644, 65647, 65648	Accommodations Wastewater
65651, 65652, 65653, 65655, 65656, 65657, 65659, 65660, 65661, 65663, 65664, 65665, 65667, 65668, 65669	Treatment System Influent
65671, 65672, 65673, 65675, 65676, 65677, 65679, 65680, 65681, 65683, 65684, 65685, 65687, 65688, 65689	Influent to UV Disinfection
65691,65692, 65693, 65695, 65696, 65697, 65699, 65700, 65701, 65703, 65704, 65705, 65707, 65708, 65709, 65711, 65715, 65719, 65723, 65762, 65763, 65765, 65766, 65767	Treatment System Effluent
65731	Galley Wastewater Discharge
65733	Laundry Wastewater Discharge
65737	Food Pulper Wastewater Discharge
65753	Source Water

According to the Quality Assurance Project Plan (QAPP) developed for the Rulemaking Support for Large Cruise Ships in Alaska Waters, sampling completeness is the number of valid samples collected relative to the number of samples planned for collection; analytical completeness is the number of valid sample measurements relative to the number of valid samples collected; and overall completeness is the number of valid sample measurements relative to the number of samples planned for collection. For the cruise ship sampling program a minimum goal of 90% completeness for sampling and analytical completeness has been established, and a minimum goal of 81% for overall completeness (determined by multiplying sampling and analytical completeness goals) has been established. For Episode 6505, sampling completeness is 99%, analytical completeness is 97%, and the overall completeness is 96%.

Holding Times

The QAPP developed for the cruise ship rulemaking requires all microbiological samples be analyzed within 6 hours following collection. Due to the ship's schedule, samples 65731, 65733, and 65737 were collected 1.5 days prior to the start of the sampling episode. Because the onboard microbiologicals laboratory was not yet operating at the time of sample collection, these samples were not analyzed within the 6-hour holding time. Table 2 provides information regarding these samples.

Table 2. Microbiological Sample Exceeding Hold Times

Sample Number	Microbiological	Sample Hold Time	Method Hold Time	Result
65731	Fecal Coliform	24 hours	6 hours	8,600,000 CFU/100mL
65731	Enterococci	24 hours	6 hours	<100 MPN/100mL
65731	*E. Coli*	24 hours	6 hours	816,000 MPN/100mL
65733	Fecal Coliform	24 hours	6 hours	110,000 CFU/100mL
65733	Enterococci	24 hours	6 hours	>2,420 MPN/100mL
65733	*E. Coli*	24 hours	6 hours	>2,420 MPN/100mL
65737	Fecal Coliform	24 hours	6 hours	2,800 CFU/100mL
65737	Enterococci	24 hours	6 hours	<10,000 MPN/100mL
65737	*E. Coli*	24 hours	6 hours	<10,000 MPN/100mL

These samples were analyzed approximately 24 hours after collection. Since the holding time for these samples were exceeded by approximately 18 hours, the data from these samples are not considered valid and will not be used for the cruise ship rulemaking. Accordingly, results for these samples will be excluded from the analytical database.

Detection Limits

Some microbiological results were reported by Analytica Alaska as "greater than" a specified value (e.g., >24,200,000 MPN/100 mL). These results are qualified in the analytical database by a ">" flag and are listed in Table 3. This qualifier indicates the samples were not diluted sufficiently (i.e., the measured concentrations exceed the range of dilutions). The reported results in the database are the upper limit of the measurement range, and the ">" flag indicates that the actual concentrations are some level greater than the reported upper limit. Although the results are valid, data users should consider this data qualification in using the data.

Table 3. Microbiological Sample Results with ">" Qualifier

Analysis	Sample Numbers
Enterococci	65595, 65623, 65627, 65632, 65635, 65639, 65651, 65733
E. Coli	65651, 65652, 65663, 65733

During onboard analysis, one enterococci and *E. coli* sample (Sample No. 65737) was overly diluted to a level which generated a non-detect (ND) results, but with a detection limit much greater than typically expected. Typically, the detection limit for enterococci and *E. coli* is 1 MPN/100 ml. For this sample, the detection limits for enterococci and *E. coli* are 10,000 MPN/100 mls. Although the results from this sample are valid, their use for engineering analysis is limited.

Calculation of Fecal Coliform Density

Fecal coliform density should be computed from sample quantities that produced membrane filtration counts within the desired range of 20 to 60 fecal coliform colonies. This was not always possible for many cruise vessel samples for various reasons. First, many samples, such as wastewater treatment effluent samples, had low concentrations of microbiological contaminants, and the occurrence of fecal coliform colonies was minimal. In these cases, as specified by the method, the analyst counted all fecal coliform colonies, disregarding the lower limit of 20.

Second, most samples (other than wastewater treatment effluent) required a series of sample dilutions to obtain between 20 and 60 colony forming units per filter pad. In most cases, the analyst obtained a result within this range using one of the prepared dilutions. However, in a few instances, no single filter generated a result within the desired range (i.e., two results within the desired range, two results either above or below the desired range, one result above and one result below the desired range, etc). In these cases, as specified by the method, the analyst totaled the counts on the two filters and reported the result as a number per 100 mL. Table 4 lists the fecal coliform samples for Sampling Episode 6505 that did not yield a single result within the desired range, and for which the analyst computed the number of colony forming units

based on a calculation of the results from multiple plates. Calculations for these samples are provided in the Cruise Ship Rulemaking Record.

Table 4. Fecal Coliform Samples For Which Multiple Plates Were Used to Compute CFU/ 100 mL

Sample Number	Sample Description
65596	Galley Wastewater
65604	Galley Wastewater
65636	Accommodations Wastewater
65652	Influent to Treatment
65657	Influent to Treatment

In summary, calculation of fecal coliform density was performed as specified by the method, and the reported results are valid.

Laboratory QC Measures

QC measures for microbiologicals include positive and negative controls, media sterility checks, dilution water sterility checks, sample bottle blanks, membrane filter preparation blanks, and verification of incubator temperatures. The following describes the results of each of these QC checks used during Sampling Episode 6505. (The actual QC results are contained in Analytica Alaska's laboratory report, which is provided in the Cruise Ship Rulemaking Record.)

Positive and Negative Controls

Positive and negative controls are known cultures that are analyzed exactly like the field samples, and will produce an expected positive or negative result for a given type of medium. For Sampling Episode 6505, one medium-specific positive and negative control was analyzed for each medium lot used. Results of the positive and negative controls indicate the media used by the field laboratory for Sampling Episode 6505 produced expected results.

Media Sterility Checks

Media are checked for sterility by incubating the media at the appropriate temperature without sample and observed for growth. For Sampling Episode 6505, one medium sterility check was performed for each medium lot used. The media sterility check verified the media used by the field laboratory had not been contaminated with any of the microorganisms being analyzed for this work.

Dilution Water Sterility Checks

Dilution water is analyzed exactly like a field sample and observed for growth of fecal coliform, *E. coli*, and enterococci to verify the water is not contaminated with these organisms prior to use. For Sampling Episode 6505, one sample dilution blank was analyzed for each lot of dilution water used. Results of dilution water blank analysis verified the water had not been contaminated with any of the microorganisms being analyzed for this work.

Sample Bottle Blank

A sample bottle blank was analyzed for each bottle lot used during Sampling Episode 6505 to determine adequate bottle sterilization prior to use by the sampling crew. Results of the sample bottle blank (dilution water poured into the sample bottle and analyzed) verified the sample bottles had not been contaminated with any of the microorganisms being analyzed for this work.

Membrane Filter Preparation Blank

Membrane filter blanks were analyzed at the beginning of each set of filtered samples to document adequate sterilization of membrane filtration equipment. Membrane blanks verified that the equipment used for filtration during Sampling Episode 6505 had not been contaminated with any of the microorganisms being analyzed for this work.

Incubator Temperature

Incubator temperatures were monitored in the onboard laboratory to verify that prepared microbiological samples were being incubated at the correct temperatures. Review of the laboratories incubator log sheets generated during Sampling Episode 6505 verified the temperature was measured and recorded twice daily, no less than four hours apart, and the temperature checks were ± 0.5°C apart.

Precision Analysis

Reproducibility for the microbiological analyses is measured as relative percent difference (RPD) between duplicate samples. The QAPP for the Cruse Ship Rulemaking presents the target RPD for all laboratory and field duplicate samples as less than 20% and 30%, respectively. During Sampling Episode 6505, additional 100-ml sample volumes were collected for a number of grab samples with the intent that the laboratory would prepare a single composite and then analyze duplicate samples from the composite to evaluate laboratory precision (i.e., laboratory duplicates). The laboratory did not prepare a composite, but instead analyzed each of the 100-ml sample volumes individually. Because a composite was not prepared, laboratory precision could not be evaluated. The results obtained from analysis of these individual sample volumes are field duplicates, not laboratory duplicates, and because they were collected as laboratory duplicates, the original sample and the duplicate sample have the

same sample number. In order to differentiate the original from the duplicate, ERG assigned new SCC numbers (65762, 65763, 65765, 65766, and 65767) to the duplicate samples.

During Sampling Episode 6505, four additional sets of intended field duplicate samples (i.e., different sample numbers) were also collected and analyzed by each of the three microbiological methods. These field duplicate samples were prepared to determine the precision of the field sampling equipment. Duplicate sample data for the samples described above, along with the four intended field duplicate samples, are provided for *E. coli*, fecal coliform, and enterococci in Tables 5, 6 and 7.

Table 5. *E. Coli* Results for Duplicate Samples

Sample No.	Dup Sample No.	Sample Result	Dup Sample Result	RPD	Target RPD
65691	65711	ND	ND	NA	<30%
65695	65715	ND	ND	NA	<30%
65699	65719	ND	ND	NA	<30%
65703	65723	ND	ND	NA	<30%
65703	65762*	ND	1 MPN/100 mL	NA	<30%
65711	65766*	ND	ND	NA	<30%
65715	65763*	ND	ND	NA	<30%
65719	65765*	ND	ND	NA	<30%
65723	65767*	ND	ND	NA	<30%

NA: RPD can not be calculated since one or both of the sample results is less than the laboratory reporting limit.
ND: Measured concentration less than the laboratory reporting limit of 1 MPN/100 mL.
Target RPD from QAPP for Rulemaking Support for Large Cruise Ships in Alaska Waters, May 2004.
*SCC numbers were fabricated to distinguish original sample from intended laboratory duplicate.

Table 6. Fecal Coliform Results for Duplicate Samples

Sample No.	Dup Sample No.	Sample Result	Dup Sample Result	RPD	Target RPD
65691	65711	ND	ND	NA	<30%
65695	65715	ND	ND	NA	<30%
65699	65719	ND	ND	NA	<30%
65703	65723	ND	ND	NA	<30%
65703	65762*	ND	ND	NA	<30%
65711	65766*	ND	ND	NA	<30%

Sample No.	Dup Sample No.	Sample Result	Dup Sample Result	RPD	Target RPD
65715	65763*	ND	ND	NA	<30%
65719	65765*	ND	ND	NA	<30%
65723	65767*	ND	ND	NA	<30%

NA: RPD can not be calculated since one or both of the sample results is less than the laboratory reporting limit.
ND: Measured concentration less than the laboratory reporting limit of 2 CFU/100ml.
Target RPD from QAPP for Rulemaking Support for Large Cruise Ships in Alaska Waters, May 2004.
*SCC numbers were fabricated to distinguish original sample from intended laboratory duplicate.

Table 7. Enterococci Results for Duplicate Samples

Sample No.	Dup Sample No.	Sample Result	Dup Sample Result	RPD	Target RPD
65691	65711	ND	ND	NA	<30%
65695	65715	ND	ND	NA	<30%
65699	65719	ND	ND	NA	<30%
65703	65723	ND	ND	NA	<30%
65703	65762*	ND	ND	NA	<30%
65711	65766*	ND	ND	NA	<30%
65715	65763*	ND	ND	NA	<30%
65719	65765*	ND	ND	NA	<30%
65723	65767*	ND	ND	NA	<30%

NA: RPD can not be calculated since one or both of the sample results is less than the laboratory reporting limit.
ND: Measured concentration less than the laboratory reporting limit of 1 MPN/100 mL.
Target RPD from QAPP for Rulemaking Support for Large Cruise Ships in Alaska Waters, May 2004.
*SCC numbers were fabricated to distinguish original sample from intended laboratory duplicate.

The data provided in Tables 5, 6, and 7 show that all of the field duplicate samples analyzed by the laboratory had measured values less than detection. The RPDs for these samples could not be calculated because one or both of the duplicate sample results was less than the laboratory reporting limit. Although the RPD for these samples cannot be calculated, the microbiological analysis precision is acceptable for this program and the reported microbiological results are valid.

Data Quality Assessment

This data validation assessment indicates all the microbiological data collected during Sampling Episode 6505 can be used for the large cruise ship rulemaking effort, with the

exception of results for samples 65731, 65733, and 65737, which were analyzed outside the 6-hour holding time.

Data users should consider limitations of sample results derived from overly high or low sample dilution as they use the data.

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MEMORANDUM

DATE: February 4, 2005

TO: Don Anderson, Project Officer
EPA EAD

FROM: Erin Salo, Quality Assurance Chemist
Sample Control Center

SUBJECT: Data Review Narrative for Total and Dissolved Metals Analyses for the Alaskan Cruise Ship Industry, Episode 6505

OVERVIEW

Under EPA contract number 68-C-03-045, Southwest Research Institute submitted data for the analysis of total and dissolved metals by EPA Methods 200.7, 200.8, 245.1, and 245.5 in Episode 6505. The 34 aqueous samples and 2 solid samples in this episode were analyzed for 24 metals by Method 200.7 (ICP-AES) and selenium and thallium by Method 200.8 (ICP-MS). Mercury analyses of the aqueous samples were performed by Method 245.1, and by Method 245.5 for the solid samples. Table 1 provides a list of samples, matrices, descriptions, sampling dates, and the required analytical methods.

All 34 aqueous samples were analyzed for total and dissolved metals. The two solid samples were analyzed for total metals. The laboratory added the suffixes "D" and "T" to the sample numbers on the hard copy results to differentiate the analyses for dissolved metals and total metals, respectively. These suffixes are also used in this data review narrative. However, the sample numbers in the database will not contain these suffixes. Consistent with current EAD protocols, the total and dissolved metals distinctions are provided in the "procedure" field of the database.

The laboratory prepared matrix spike/matrix spike duplicate (MS/MSD) samples for the three aqueous effluent samples marked as "QC" on the traffic reports. In addition, the laboratory prepared an extra aqueous effluent sample MS/MSD for total and dissolved metals and a solid sample for MS/MSD for total metals.

Table 1 - Sample Identifiers, Descriptions, Sampling Dates, and Analysis Methods

EPA Sample #	Matrix	Sample Description	Sampling Date	Methods
65591	Aqueous	SP-1, Galley	8/29/2004	200.7, 200.8, and 245.1
65595	Aqueous	SP-1, Galley	8/30/2004	
65599	Aqueous	SP-1, Galley	8/31/2004	
65603	Aqueous	SP-1, Galley	9/1/2004	
65607	Aqueous	SP-1, Galley	9/2/2004	
65611	Aqueous	SP-2, Laundry	8/29/2004	
65615	Aqueous	SP-2, Laundry	8/30/2004	
65619	Aqueous	SP-2, Laundry	8/31/2004	
65623	Aqueous	SP-2, Laundry	9/1/2004	

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Table 1 - Sample Identifiers, Descriptions, Sampling Dates, and Analysis Methods

EPA Sample #	Matrix	Sample Description	Sampling Date	Methods
65627	Aqueous	SP-2, Laundry	9/2/2004	200.7, 200.8, and 245.1
65631	Aqueous	SP-3, Accommodations	8/29/2004	
65635	Aqueous	SP-3, Accommodations	8/30/2004	
65639	Aqueous	SP-3, Accommodations	8/31/2004	
65643	Aqueous	SP-3, Accommodations	9/1/2004	
65647	Aqueous	SP-3, Accommodations	9/2/2004	
65651	Aqueous	SP-4, Influent to wastewater treatment	8/29/2004	
65655	Aqueous	SP-4, Influent to wastewater treatment	8/30/2004	
65659	Aqueous	SP-4, Influent to wastewater treatment	8/31/2004	
65663	Aqueous	SP-4, Influent to wastewater treatment	9/1/2004	
65667	Aqueous	SP-4, Influent to wastewater treatment	9/2/2004	
65691	Aqueous	SP-6, Final effluent	8/29/2004	
65695	Aqueous	SP-6, Final effluent	8/30/2004	
65699	Aqueous	SP-6, Final effluent	8/31/2004	
65703	Aqueous	SP-6, Final effluent	9/1/2004	
65707	Aqueous	SP-6, Final effluent	9/2/2004	
65711	Aqueous	SP-7, Final effluent	8/29/2004	
65715	Aqueous	SP-7, Final effluent	8/30/2004	
65719	Aqueous	SP-7, Final effluent	8/31/2004	
65723	Aqueous	SP-7, Final effluent	9/1/2004	
65731	Aqueous	SP-8, Galley water discharge	8/26/2004	
65733	Aqueous	SP-9, Laundry overboard	8/26/2004	
65737	Aqueous	SP-10, Food pulper discharge	8/26/2004	
65741	Solid	SP-11, Screening solids	8/31/2004	200.7, 200.8, and 245.5
65745	Aqueous	SP-12, Waste biosludge	8/26/2004	200.7, 200.8, and 245.1
65749	Solid	SP-13, Incinerator ash	8/31/2004	200.7, 200.8, and 245.5
65753	Aqueous	SP-14, Source water	8/30/2004	200.7, 200.8, and 245.1
65761	Aqueous	Equipment blank	8/24/2004	

These data have been reviewed in accordance with SCC's Data Review Guidelines for Metals Analyses (November 2004) and with the specifications listed in EPA Methods 200.7 (Rev. 5), 200.9 (Rev. 2.2), 245.1 (03/83), and 245.5 (03/83). All data are of acceptable quality with the qualifiers described below and detailed in the data review summary table (Table 2).

Following SCC's initial review of the data, EPA inquired about modifying the reporting convention used for metals to address EPA's need to compare sample results to the water quality criteria for Alaskan

coastal waters. The current EAD metals contracts specify that the laboratory report results down to the minimum level (ML) for each analyte. By examining both the hard copy raw data and the laboratory's electronic submission, SCC determined that results between the ML and the method detection limit (MDL) were available for all of the metals. After consultation with EPA, SCC modified the reported results such that any analytes not detected in the sample were reported as a non-detect at the laboratory's MDL rather than at the ML. As a result, there are also some analytes that are reported as detected between the ML and the laboratory's MDL. These results are flagged "J" in the database. This change also means that the hard copy data reported by the laboratory may not match the results in the database for values in the database between the MDL and ML of the analyte. This change also necessitated an additional review of all of the blank results to ensure that the low-level results reported in samples were not simply artifacts of the blanks.

SUMMARY

All 36 samples were successfully analyzed within the method-specified holding times. The initial precision and recovery (IPR) analyses and the method detection limit (MDL) study were performed and met the acceptance criteria. The minimum level standard for calcium was spiked at 500 µg/L instead of at 50 µg/L. However, SCC does not believe that this affects the data, since the calibration curves, calibration standards, and calibration blanks met all other QC requirements.

Calibration curves, calibration standards, and calibration blanks were successfully analyzed. Preparation blanks performed for each analysis detected no contamination above the laboratory's reporting limits, with the exceptions noted below and detailed in Table 2. QC samples, including laboratory control sample (LCS), matrix spike (MS) sample, matrix duplicate (MSD) sample, and laboratory serial dilution sample demonstrated that laboratory performance for these analyses was acceptable, with the exception of the issues described below.

Multiple Qualifiers

Some of the analytical results were affected by multiple qualifiers. In cases where these qualifiers suggest different biases, SCC considers the data to be estimated values. The effect of each QC failure and its associated qualifier is described in the data review narrative. Where multiple qualifiers occur, the cumulative effects of the associated qualifiers are documented in the attached Table 2.

DATA ISSUES

Blanks

Several elements were detected in the preparation blanks and some of the continuing calibration blanks (CCBs) associated with the samples in this episode at concentrations greater than the respective MDLs, but less than the method-specified MLs. (Note: This is a function of the change in reporting limits requested by EPA after the fact and not an issue of laboratory performance.) The data quality is affected as follows:

- Sample Results Less than Five Times Blank Results: When the sample result is less than five times the blank result, there are no means by which to ascertain whether or not the presence of the analyte may be attributed to contamination. Therefore, SCC recommends that the data be reported in the database as a non-detect at the MDLs, adjusted for sample size, dilution, and matrices. These instances are detailed in the attached data review summary table.

- Sample Results Greater than Five Times but Less than Ten Times Blank Results: SCC considers these results to be of acceptable quality, but they may be maximum values. These instances are detailed in the attached data review summary table.

- Sample Results Greater than Ten Times Blank Results or Analyte Not Detected in Sample: SCC does not consider the presence of the analyte in the blank to adversely affect the data in cases where the sample results are greater than ten times the associated blank results or where the analyte is not detected in associated samples. Because SCC considers such data to be acceptable without qualification, these cases do not merit further detail.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Tin (Sn) and iron (Fe) were recovered below the method-specified criteria in the MS and MSD for sample 65591T. Therefore, SCC considers the Sn and Fe results in this sample to be of acceptable quality, but may be minimum values.

Barium (Ba), nickel (Ni), and antimony (Sb) were recovered below the method-specified criteria in the MS and MSD for solid sample 65749. Therefore, SCC considers the Ba, Ni, and Sb results in this sample to be of acceptable quality, but they may be minimum values.

Silver (Ag) was recovered above the method-specified criteria in the MS for solid sample 65749. Therefore, SCC considers the Ag result in this sample to be of acceptable quality, but it may be a maximum value.

Tin (Sn) was recovered above the method-specified criteria in the MSD and the relative percent difference (RPD) between the MS and MSD was outside the method-specified criteria for solid sample 65749. Therefore, SCC considers the Sn result in this sample to be an estimated value.

The RPD between the MS and MSD for copper (Cu), manganese (Mn), titanium (Ti), and zinc (Zn) were outside the method-specified criteria for solid sample 65749. Therefore, SCC considers the Cu, Mn, Ti, and Zn results in this sample to be estimated values.

Serial Dilutions

For silver (Ag) in solid sample 65749, the percent difference (%D) between the original analysis and the dilution exceeded the method-specified criteria. Therefore, SCC considers the sample result for Ag in sample 65749 to be an estimated value.

If you have any questions regarding the analyses of these samples or the review of these data, please contact SCC's Data Review Team Leader, Pornkeo Chinyavong, by telephone at (703) 461-2346 or by facsimile at (703) 461-8056.

Attachment

cc: Marla Smith, EPA
Beverly Randolph, EPA
Nelson Andrews, EPA
Deb Falatko, ERG
Jodie King, ERG
Deb Miller, CSC
Harry McCarty, CSC

Table 2
Data Review Summary Table

Episode: 6505 **Analysis:** Metals

Industry: Alaskan Cruise Ship **Reviewer:** E. Salo

Sample	Analyte	Action	Reason	SCC Qual	Level
Total 65591	Fe	Minimum value	MS and MSD recovery below method-specified criteria	NA	813 µg/L
Total 65591	Sn	Minimum value	MS and MSD recovery below method-specified criteria	NA	13 µg/L
Solid 65749	Ba	Minimum value	MS and MSD recovery below method-specified criteria	NA	381 mg/kg
Solid 65749	Ni	Minimum value	MS and MSD recovery below method-specified criteria	NA	37.1 mg/kg
Solid 65749	Sb	Estimated value	MS and MSD recovery below method-specified criteria; sample result > 5x and <10x blank result	NA	7.5 mg/kg
Solid 65749	Ag	Estimated value	MS recovery above method-specified criteria and %D for serial dilution exceeded criteria	NA	9.7 mg/kg
Solid 65749	Sn	Estimated value	MSD recovery and RPD between MS/MSD above method-specified criteria	NA	58.4 mg/kg
Solid 65749	Cu, Mn, Ti, Zn	Estimated value	RPD between MS/MSD above method-specified criteria	NA	See database report
Dissolved 65615, 65619, 65691, 65695, 65699, 65715, 65719	Al	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Dissolved 65599, 65611, 65651, 65655, 65659	Al	Maximum value	Sample result > 5x and < 10x blank result	NA	See database report
Total 65711, 65753, 65703, 65707, 65723	Al	Report in database as non-detect	Sample result < 5x blank result	NA	ND

Table 2
Data Review Summary Table

Episode: 6505 **Analysis:** Metals

Industry: Alaskan Cruise Ship **Reviewer:** E. Salo

Sample	Analyte	Action	Reason	SCC Qual	Level
Total 65627	Al	Maximum value	Sample result > 5x and < 10x blank result	NA	See database report
Dissolved 65655	As	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Total 65603, 65703, 65707, 65651	As	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Solid 65741	As	Report in database as non-detect	Sample result < 5x blank result	NA	
Solid 65749	As	Maximum value	Sample result > 5x and < 10x blank result	NA	See database report
Dissolved 65737, 65753, 65603, 65607, 65623, 65627, 65643, 65647, 65663, 65667, 65723, 65761, 65591, 65595, 65611, 65615, 65619, 65631, 65635, 65639, 65731, 65733	B	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Dissolved 65711, 65703, 65707, 65599, 65655, 65659, 65691, 65695, 65699, 65715, 65719	B	Maximum value	Sample result > 5x and < 10x blank result	NA	See database report
Solid 65741	B	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Solid 65749	B	Maximum value	Sample result > 5x and < 10x blank result	NA	See database report
Total 65623, 65627, 65753, 65761, 65591, 65595, 65611, 65615, 65619, 65631, 65635, 65639, 65733, 65731	B	Report in database as non-detect	Sample result < 5x blank result	NA	ND

Table 2
Data Review Summary Table

Episode: 6505 **Analysis:** Metals

Industry: Alaskan Cruise Ship **Reviewer:** E. Salo

Sample	Analyte	Action	Reason	SCC Qual	Level
Total 65643, 65607, 65599, 65659, 65691, 65695, 65699, 65715, 65651, 65655	B	Maximum value	Sample result > 5x and < 10x blank result	NA	See database report
Dissolved 65643, 65753, 65647, 65631	Ba	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Dissolved 65663, 65703, 65707, 65723, 65623, 65635, 65639, 65619, 65655, 65659	Ba	Maximum value	Sample result > 5x and < 10x blank result	NA	See database report
Total 65753	Ba	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Total 65711, 65707, 65723, 65703	Ba	Maximum value	Sample result > 5x and < 10x blank result	NA	See database report
Dissolved 65711, 65737, 65753, 65603, 65607, 65623, 65627, 65643, 65647, 65663, 65667, 65703, 65707, 65723, 65631, 65635, 65639, 65651, 65655, 65659, 65695, 65699, 65715, 65719, 65731, 65733	Be	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Solid 65741	Be	Report in database as non-detect	Sample result < 5x blank result	NA	ND

Table 2
Data Review Summary Table

Episode: 6505 **Analysis:** Metals

Industry: Alaskan Cruise Ship **Reviewer:** E. Salo

Sample	Analyte	Action	Reason	SCC Qual	Level
Total 65711, 65737, 65753, 65603, 65607, 65623, 65627, 65643, 65647, 65663, 65667, 65703, 65707, 65723, 65619, 65635, 65639, 65659, 65691, 65695, 65699, 65715, 65733, 65731, 65591, 65595, 65599, 65611, 65615	Be	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Dissolved/Total 65761	Ca	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Dissolved 65699, 65715, 65631, 65635, 65639, 65655, 65691, 65695, 65731, 65733	Co	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Dissolved 65651, 65659	Co	Maximum value	Sample result > 5x and < 10x blank result	NA	See database report
Total 65761, 65591, 65595, 65611, 65659, 65699, 65715, 65651, 65655	Co	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Dissolved 65737, 65703, 65723, 65719	Cu	Maximum value	Sample result > 5x and < 10x blank result	NA	See database report
Total 65711, 65703, 65723	Cu	Maximum value	Sample result > 5x and < 10x blank result	NA	See database report

Table 2
Data Review Summary Table

Episode: 6505 **Analysis:** Metals

Industry: Alaskan Cruise Ship **Reviewer:** E. Salo

Sample	Analyte	Action	Reason	SCC Qual	Level
Dissolved 65611, 65615, 65619, 65631, 65635, 65639, 65651, 65655, 65659, 65691, 65695, 65699, 65715, 65719, 65733	Fe	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Dissolved 65595, 65599, 65731	Fe	Maximum value	Sample result > 5x and < 10x blank result	NA	See database report
Total 65753	Mn	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Dissolved 65623, 65651, 65715, 65719	Mo	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Total 65737, 65663, 65667, 65703, 65595, 65599, 65659, 65651, 65655	Mo	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Solid 65741	Mo	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Dissolved/Total 65761	Na	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Solid 65741	Pb	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Solid 65741	Sb	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Total 65615, 65619, 65635, 65639, 65733, 65731	Se	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Total 65611	Se	Maximum value	Sample result > 5x and < 10x blank result	NA	See database report
Solid 65741	Sn	Report in database as non-detect	Sample result < 5x blank result	NA	ND

Table 2
Data Review Summary Table

Episode: 6505 **Analysis:** Metals

Industry: Alaskan Cruise Ship **Reviewer:** E. Salo

Sample	Analyte	Action	Reason	SCC Qual	Level
Dissolved 65595, 65611, 65615, 65619, 65631, 65635, 65639, 65731, 65733	Ti	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Dissolved 65591	Ti	Maximum value	Sample result > 5x and < 10x blank result	NA	See database report
Total 65737, 65643, 65611, 65651	Ti	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Total 65603, 65663, 65667, 65595, 65615, 65631, 65639, 65659, 65655, 65745	Ti	Maximum value	Sample result > 5x and < 10x blank result	NA	See database report
Total 65761, 65651, 65655, 65659, 65595, 65599	Tl	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Dissolved 65651, 65659, 65691, 65695, 65699, 65715	V	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Total 65591, 65599, 65619, 65635, 65691, 65695, 65715, 65733, 65595	V	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Dissolved 65623	Y	Report in database as non-detect	Sample result < 5x blank result	NA	ND
Total 65737	Y	Report in database as non-detect	Sample result < 5x blank result	NA	ND

NA = Not applicable
ND = Not detected

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MEMORANDUM

DATE: February 2, 2005

TO: Don Anderson, Project Officer
EPA EAD

FROM: Pornkeo Chinyavong, Quality Assurance Chemist PC
Sample Control Center

SUBJECT: Data Review Narrative for Organics Analyses for the Alaskan Cruise Ship Industry, Episode 6505

OVERVIEW

Under EPA Contract Number 68-C-03-033, Pacific Analytical, Inc. (PAI) submitted data for the analysis of volatile organics by Method 624 and semivolatile organics by Method 625 in Episode 6505. Table 1 provides a list of samples, sample descriptions, sampling dates, matrices, and the required analytical methods. This episode included one solid sample and 34 aqueous samples for Method 624 analysis, and two solid samples and 34 aqueous samples for Method 625 analysis. The package included data for four sets of matrix spike and matrix spike duplicate (MS/MSD) samples analyzed for each method.

Table 1 - Sample Identifiers, Descriptions, Sampling Dates, and Analysis Methods

EPA Sample #	Matrix	Sample Description	Sampling Date	Methods
65591	Aqueous	SP-1 Galley wastewater	8/29/04	624, 625
65595	Aqueous	SP-1 Galley wastewater	8/29/04[a], 8/30/04[b]	624, 625
65599	Aqueous	SP-1 Galley wastewater	8/30/04[a], 8/31/04[b]	624, 625
65603	Aqueous	SP-1 Galley wastewater	9/01/04	624, 625
65607	Aqueous	SP-1 Galley wastewater	9/01/04[a], 09/02/04[b]	624, 625
65611	Aqueous	SP-2 Laundry	8/29/04	624, 625
65615	Aqueous	SP-2 Laundry	8/30/04	624, 625
65619	Aqueous	SP-2 Laundry	8/30/04[a], 8/31/04[b]	624, 625
65623	Aqueous	SP-2 Laundry	9/01/04	624, 625
65627	Aqueous	SP-2 Laundry	9/01/04	624, 625
65631	Aqueous	SP-3 Accommodations	8/29/04	624, 625
65635	Aqueous	SP-3 Accommodations	8/30/04	624, 625
65639	Aqueous	SP-3 Accommodations	8/30/04[a], 8/31/04[b]	624, 625
65643	Aqueous	SP-3 Accommodations	9/01/04	624, 625
65647	Aqueous	SP-3 Accommodations	9/01/04[a], 9/02/04[b]	624, 625

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Table 1 - Sample Identifiers, Descriptions, Sampling Dates, and Analysis Methods

EPA Sample #	Matrix	Sample Description	Sampling Date	Methods
65651	Aqueous	SP- 4 Influent	8/29/04	624, 625
65655	Aqueous	SP-4 Influent	8/30/04	624, 625
65659	Aqueous	SP-4 Influent	8/30/04[a], 8/31/04[b]	624, 625
65663	Aqueous	SP-4 Influent	9/01/04	624, 625
65667	Aqueous	SP-4 Influent	9/01/04	624, 625
65691	Aqueous	SP-6 Effluent	8/29/04	624, 625
65695	Aqueous	SP-6 Effluent	8/30/04	624, 625
65699	Aqueous	SP-6 Effluent	8/30/04[a], 8/31/04[b]	624, 625
65703	Aqueous	SP-6 Effluent	9/01/04	624, 625
65707	Aqueous	SP-6 Effluent	9/02/04	624, 625
65711	Aqueous	SP-7 Effluent	8/29/04	624, 625
65715	Aqueous	SP-7 Effluent	8/30/04	624, 625
65719	Aqueous	SP-7 Effluent	8/30/04[a], 8/31/04[b]	624, 625
65731	Aqueous	SP-8 Galley wastewater	8/27/04	624, 625
65733	Aqueous	SP-9 Laundry	8/27/04	624, 625
65737	Aqueous	SP-10 Food pulper	8/26/04	624, 625
65741	Solid	SP-11 Screening solids	8/30/04[a], 8/31/04[b]	624, 625
65745	Aqueous	SP-12 Biosludge	8/26/04	624, 625*
65749	Solid	SP-13 Incinerator ash	8/30/04	625
65753	Aqueous	SP-14 Source water	8/30/04	624, 625
65757	Aqueous	Trip blank	9/01/04	624
65760	Aqueous	SP-10 Food pulper	9/03/04	625
65761	Aqueous	Equipment blank	8/24/04	625

[a] Collection date for volatiles
[b] Collection date for semivolatiles
* Sample was received at the laboratory broken, no semivolatiles analysis for this sample

These data have been reviewed in accordance with SCC's Data Review Guidelines for Volatile and Semivolatile Analyses By Methods 624 and 625 (November 2004) and according to the specifications in the methods. Below is a summary of the results of the data review process, followed by detailed descriptions of data issues identified with these samples. Based on this review, all data in this episode are

considered to be of acceptable quality with the qualifications described below and detailed in the attached data review summary tables (Table 2 and 3).

SUMMARY

All samples were successfully analyzed for the target analytes according to EPA Methods 624 and 625, with the exception of sample 65745. The volume of sample 65745 for semivolatile analysis was broken upon receipt at the laboratory. Method 624 samples were prepared and analyzed within holding times. Method 625 samples were extracted and analyzed within the method-specified holding times, and GPC clean-up procedures were performed on all samples. All calibration and continuing calibration standards were successfully analyzed. Preparation blanks performed for each analysis detected no contamination above the laboratory's reporting limits. The QC samples, including the ongoing precision and recovery samples (OPR) and MS/MSD samples, as well as surrogate and internal standard recoveries, demonstrated that laboratory performance for these analyses was acceptable with the exception of the data issues described below.

DATA ISSUES: METHOD 624

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Samples

MS/MSD samples were prepared for samples 65715, 65719, and 65731, and solid sample 65741. One analyte, 2-chloroethylvinyl ether, was not recovered in any of these MS/MSD samples. Although Method 624 does not provide QC limits for MS/MSD recoveries, the lack of recoveries in the MS/MSDs indicate potential difficulties in the analysis of this compound in samples. Therefore, SCC recommends that the results for 2-chloroethylvinyl ether be excluded from the database. Please note that SCC did not initiate reanalysis of the affected samples because the holding time had expired by more than 45 days. These cases are detailed in Table 2.

For solid sample 65741, toluene is not recovered in the MS sample, but had acceptable recovery in the MSD sample. Therefore, SCC considers the toluene result in solid sample 65741 to be an estimated value (see Table 2).

DATA ISSUES: METHOD 625

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD samples were prepared for samples 65711, 65715, 65719, and solid sample 65749. For sample 65719, hexachlorocyclopentadiene was not recovered in the MS/MSD. Hexachlorocyclopentadiene recoveries were at acceptable level for other MS/MSD samples. For solid sample 65749, benzidine was not recovered in the MS/MSD. Benzidine recoveries were at acceptable levels for other MS/MSD samples. Although Method 625 does not provide QC limits for the recoveries, the lack of recoveries in the MS/MSDs indicate potential difficulties in the extraction of these compounds in samples. Therefore, SCC recommends that the hexachlorocyclopentadiene result in sample 65719, and benzidine result in sample 65749 be excluded from the database. These cases are detailed in Table 3.

TECHNICAL NOTES:

Reporting Limits

The reporting limits for this project are the same limits required for Methods 1624 and 1625, and are based on the lowest initial calibration (ICAL) standard, adjusted for actual sample size and final extract volume. Some sample results in this episode were reported by the laboratory with a "J" flag, which indicates an estimated result that is below the laboratory's reporting limit. In keeping with current EAD practices, and to maintain consistency in the database, all "J" flagged data will be reported in the database as non-detects at the minimum levels (MLs) as specified in Method 1624 and 1625, as required for this project.

The acid fractions for samples 65591, 65595, 65599, 65619, 65631, 65635, 65639, 65651, 65659, 65695, 65699, 65711, 65719, and 65749 were lost due to extraction apparatus failures during extraction. The acid fractions for these samples were re-extracted and analyzed within holding time. However, several samples were re-extracted using less than the 1000-mL volume specified by the method because of the limited volume of the remaining samples. This variation in sample size increased the MLs for these samples by as much as 64%. The MLs provided in the database for the acid fractions of these samples reflect the smaller sample volumes.

For Method 624, the laboratory increased the QC sample spiking concentration, the concentration of the lowest calibration standard, and the ML for 2-chloroethylvinyl ether by a factor of five because of problems with instrument sensitivity. The ML provided in the database for this analyte was increased by factor of five for all samples.

Broken Sample

Both 1-L bottles of sample 65745 for semivolatile analysis were received at the laboratory broken. Therefore, no data are included in the database for the analysis of semivolatile organics by Method 625 for sample 65745.

If you have any questions regarding the analyses of these samples or the review of these data, please contact me by telephone at (703) 461-2346, or by facsimile at (703) 461-8056.

Attachments

cc: Beverly Randolph, EPA
Marla Smith, EPA
Nelson Andrews, EPA
Deb Falatko, ERG
Jodi King, ERG
Deb Miller, CSC
Harry McCarty, CSC

Table 2
Data Review Summary Table for Method 624

Episode: 6505 **Analysis:** Method 624

Industry: Alaskan Cruise Ship **Reviewer:** P. Chinyavong

Samples	Analyte	Action	Reason	SCC Qual	Level
65715, 65719, 65731, 65741	2-chloroethylvinyl ether	Exclude from database	Not recovered in the MS/MSD	Exclude	NA
65741	toluene	Estimated value	Not recovered in the MS, but acceptable MSD recovery	NA	136 µg/L

Table 3
Data Review Summary Table for Method 625

Episode: 6505 **Analysis:** Method 625

Industry: Alaskan Cruise Ship **Reviewer:** P. Chinyavong

Samples	Analyte(s)	Action	Reason	SCC Qual	Level
65719	hexachlorocyclopentadiene	Exclude from database	Not recovered in the MS/MSD	Exclude	NA
65749	benzidine	Exclude from database	Not recovered in the MS/MSD	Exclude	NA

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MEMORANDUM

DATE: January 19, 2005

TO: Don Anderson, Project Officer
EPA EAD

FROM: Pornkeo Chinyavong, Quality Assurance Chemist
Sample Control Center

PC

SUBJECT: Data Review Narrative for PCB Congener Analyses for the Alaskan Cruise Ship Industry, Episode 6505

OVERVIEW

Under EPA Purchase Order EP-C-04-047, Axys Analytical Services submitted data for the analysis of chlorinated biphenyl congeners by EPA Method 1668A for one sample in Episode 6505. Table 1 provides a list of the sample, matrix, sample description, and the required analytical method.

Table 1 - Sample Identifier, Description, Sampling Date, and Analysis Method

Episode	EPA Sample #	Matrix	Sample Description	Sampling Date	Method
6505	65451	Aqueous	SP4, Influent Wastewater	8/29/04	1668A

These data have been reviewed in accordance with SCC's Data Review Guidelines for Chlorinated Biphenyl Analysis By Method 1668, Revision A (November 2004). Below is a summary of the results of the data review process, followed by detailed descriptions of data issues identified with this sample. Based on this review, all data in this episode are considered to be of acceptable quality.

SUMMARY

The sample was successfully extracted and analyzed for the target analytes in EPA Method 1668A within the method-specified holding times. The calibration and continuing calibration standards were successfully analyzed. Preparation blanks associated with this sample detected no contamination above the laboratory's reporting limits. The QC samples, including the ongoing precision and recovery (OPR) sample, demonstrated that laboratory performance for these analyses was acceptable, with the clarification provided below.

Reporting Limits

The sample was extracted using a 887-mL aliquot, rather than the method-specified 1000-mL aliquot, due to volume constraints. This variation in sample size increased the MLs for sample 65651 by 13%. The MLs provided in the database for this sample reflect the smaller sample volume.

If you have any questions regarding the analyses of this sample or the review of these data, please contact me, by telephone at (703) 461-2346 or by facsimile at (703) 461-8056.

cc: Beverly Randolph, EPA
Marla Smith, EPA
Nelson Andrews, EPA
Deb Falatko, ERG
Jodi King, ERG
Deb Miller, CSC
Harry McCarty, CSC

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MEMORANDUM

DATE: January 10, 2005

TO: Don Anderson, Project Officer
EPA EAD

FROM: Pornkeo Chinyavong, Quality Assurance Chemist PC
Sample Control Center

SUBJECT: Data Review Narrative for Pesticide Analyses for the Alaskan Cruise Ship Industry, Episode 6505

OVERVIEW

Under EPA Purchase Order EP-C-04-046, Pacific Analytical, Inc. (PAI) submitted data for the analysis of organohalide pesticides by EPA Method 1656A and organophosphorus pesticides by EPA Method 1657A for two samples in Episode 6505. Table 1 provides a list of samples, matrices, description, and the required analytical methods.

Table 1 - Sample Identifiers, Descriptions, Sampling Dates, and Analysis Methods

EPA Sample #	Matrix	Sample Description	Sampling Date	Method
65599	Aqueous	SP1, Galley wastewater	8/30/04	1656A, 1657A
65659	Aqueous	SP4, Influent to wastewater	8/30/04	1656A, 1657A

These data have been reviewed in accordance with SCC's Data Review Guidelines for Pesticide Analyses (November 2004). Below is a summary of the results of the data review process, followed by detailed descriptions of data issues identified with these samples. Based on this review, all data in this episode are considered to be of acceptable quality with the qualifications described below and detailed in the attached data review summary tables (Tables 2A and 2B).

SUMMARY

All samples were successfully extracted and analyzed for the target analytes in EPA Methods 1656A and 1657A within the method-specified holding times. The calibration and continuing calibration standards were successfully analyzed. Preparation blanks performed for each analysis detected no contamination above the laboratory's reporting limits. All organohalide pesticides samples were processed through gel permeation chromatography (GPC), Florisil, and sulfur removal cleanups. All organophosphorus pesticides samples were processed through GPC and carbon column cleanup. The QC samples, including the ongoing precision and recovery (OPR) sample, demonstrated that laboratory performance for these analyses was acceptable with the exception of the data issues described below. No matrix spike/matrix spike duplicate (MS/MSD) samples were required for this episode.

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Reporting Limits

The laboratory's reporting limits are based on the lowest calibration points specified in the methods, adjusted for dilution, rather than the minimum levels (MLs) listed in the methods. In most cases, the laboratory's reporting limits are lower than the method-specified MLs.

Some sample results in this episode were reported by the laboratory with a "J" flag, which indicates an estimated result that is below the laboratory's reporting limit. In keeping with current EAD practices, and to maintain consistency, all "J" flagged data will be reported in the database as non-detects at the laboratory's reporting limits.

Multiple Qualifiers

Some analytical results were affected by multiple qualifiers. In cases where these qualifiers suggest different biases, SCC considers the data to be estimated values. The effect of each QC failure and its associated qualifier are described in this data review narrative. Where multiple QC failures occur, the cumulative effects of the associated qualifiers are documented in the Tables 2A and 2B.

DATA ISSUES: METHOD 1656A

Preparation Blank

Dacthal and terbuthylazine were detected in the preparation blank at 0.012 µg/L and 2.42 µg/L, respectively, which were below the laboratory's reporting limits. Dacthal was not detected in either sample in this episode, and terbuthylazine was not detected in sample 65599. Therefore, SCC believes that the data quality was not affected.

For sample 65659, the terbuthylazine result is less than five times the blank result. When the sample result is less than five times the blank results, there are no means by which to ascertain whether or not the presence of the analyte may be attributed to contamination. Therefore, SCC recommends that the terbuthylazine result of 5.38 µg/L in sample 65659 be reported in the database as a non-detect at the laboratory's reporting limit (see Table 2A).

Surrogate Recoveries

For sample 65599, all surrogate recoveries on both columns are below the method-specified criteria. Therefore, SCC considers all organohalide pesticides data in this sample to be minimum values (see Table 2A).

For sample 65659, the surrogate recoveries for decachlorobiphenyl on both columns are below the method-specified criteria. However, the other two surrogate recoveries are within the method-specified criteria, indicating that the extraction efficiency is in control. Therefore, SCC believes that the data quality for these samples is not affected by the low recovery of one surrogate.

Ongoing Precision and Recovery (OPR)

Metribuzin, dichlone, norflurazon, and carbophenothion were recovered below the method-specified criteria in the OPRs associated with samples 65599 and 65659. Therefore, SCC considers the non-detects data for these analytes in these samples to be minimum values (see Table 2A).

Sample Results

According to the method, the computed result for a target analyte detected on the primary column analysis must be confirmed and agree within a factor of two with the result computed for that analyte on the confirmation column. For sample 65599, the dieldrin result of 0.365 µg/L from the primary column differed by more than the method-specified factor of two from the confirmation column result of 0.128 µg/L. The peak resolution was poor on the primary column, which indicates a potential positive interference.

Due to matrix interferences in sample 65659, the chromatograms from both primary and secondary columns show that the simazine and dicofol peaks, although distinct, are not completely resolved from other closely eluting compounds on one of the two columns. Because other compounds elute within 20 seconds, and non-target multicomponent peaks surround the simazine and dicofol peaks on secondary column, the identification and quantification for these analytes are suspect. Also, the methoxychlor and endrin aldehyde results from the primary column differed by more than the method-specified factor of two from the results for the confirmation column.

After discussions with SCC, EPA authorized the analysis of samples 65599 and 65659 by a GC/MS method utilizing selected ion monitoring (SIM) to determine if the target analytes, in fact, were present in the samples, or if the original GC/ECD results were false positives. The results of the GC/MS SIM analyses were reviewed by SCC and we determined that most of the pesticides could not be confirmed, except for simazine in sample 65659. Simazine was detected by GC/MS at 0.957 µg/L in sample 65659, and that result was included in the database.

DATA ISSUES: METHOD 1657A

Ongoing Precision and Recovery (OPR)

Two OPR samples were analyzed for this episode. Methamidophos was not recovered in OPR1, and was recovered below the method-specified criteria in OPR2. Therefore, SCC considers the non-detect data for methamidophos in all samples to be minimum values (see Table 2B).

If you have any questions regarding the analyses of these samples or the review of these data, please contact me, by telephone at (703) 461-2346 or by facsimile at (703) 461-8056.

Attachments:

cc: Beverly Randolph, EPA
Marla Smith, EPA
Nelson Andrews, EPA
Deb Falatko, ERG
Jodi King, ERG
Deb Miller, CSC
Harry McCarty, CSC

Table 2A
Data Review Summary Table

Episode: 6505 **Analysis:** 1656A

Industry: Alaskan Cruise Ship **Reviewer:** P. Chinyavong

Sample	Analyte	Action	Reason	SCC Qual	Level
65659	terbuthylazine	Report in the database as non-detect	Sample result < 5x blank result	NA	ND
65659	metribuzin, dichlone, norflurazon, carbophenothion	Minimum values	Low OPR recoveries	NA	ND
65659	simazine	Result report from GC/MS confirmation analysis	Peak interference in GC/ECD analysis	NA	0.957 µg/L
65599	All target analytes listed in 1656A, except as noted below	Minimum values	Low surrogate recoveries	NA	ND
65599	metribuzin, dichlone, norflurazon, carbophenothion	Minimum values	Low surrogate recoveries; low OPR recoveries	NA	ND

ND = Non-detect at the laboratory's reporting limit. See level in database.
NA = Not applicable

Table 2B
Data Review Summary Table

Episode: 6505 **Analysis:** 1657A

Industry: Alaskan Cruise Ship **Reviewer:** P. Chinyavong

Sample	Analyte	Action	Reason	SCC Qual	Level
65599, 65659	methamidophos	Minimum value	No OPR recovery on first attempt, and low recovery on second attempt	NA	ND

ND = Non-detect at the laboratory's reporting limit. See level in database.
NA = Not applicable

Quality Assurance Review of Laboratory Data Collected From Large Cruise Ships in Alaska Waters

Sampling Episode 6505

Data Validation Report For Settleable Solids Samples

Prepared By:

Eastern Research Group
14555 Avion Parkway, Suite 200
Chantilly, Virginia 20151

February 8, 2005

Settleable Solids Method 160.5

Completeness

During Sampling Episode 6505, all 33 samples (excluding QC samples) that were identified in the Sampling and Analysis Plan for the Island Princess (Sampling Episode 6505) were collected for analysis of Settleable Solids (SS) by EPA Method 160.5. Sample numbers ranged between 65591 and 65753. Sampling completeness for this episode was 100% (all planned samples were collected).

The data package submitted by the analytical laboratory, Analytica Alaska Southeast, contained complete SS data for all submitted samples. A list of the samples collected and analyzed during Sampling Episode 6505 are provided in Table 1.

Table 1. SS Samples Collected During Sampling Episode 6505

Sample Numbers	Sample Point Description
65651, 65655, 65659, 65663, 65667	Treatment System Influent
65691, 65695, 65699, 65703, 65707, 65727, 65711, 65715	Treatment System Effluent
65631, 65635, 65639, 65643, 65647	Accommodations
65591, 65595, 65599, 65603, 65607	Galley
65611, 65615, 65619, 65623, 65627	Laundry
65731	Galley Overboard
65733	Laundry Overboard
65737	Food Pulper Overboard
65753, 65764	Source Water

According to the Quality Assurance Project Plan (QAPP) developed for the Rulemaking Support for Large Cruise Ships in Alaska Waters, sampling completeness is the number of valid samples collected relative to the number of samples planned for collection; analytical completeness is the number of valid sample measurements relative to the number of valid samples collected; and overall completeness is the number of valid sample measurements relative to the number of samples planned for collection. For the cruise ship sampling program a minimum goal of 90% completeness for sampling and analytical completeness has been established, and a minimum goal of 81% for overall completeness (determined by multiplying sampling and analytical completeness goals) has been established.

As a result of a shipping delay, 6 samples collected for SS analysis arrived at the laboratory five days following collection. According to Method 160.5, samples should be analyzed within 48 hours following collection. Although the SS samples were analyzed upon receipt at the laboratory, the results are not considered valid. Therefore, for Sampling Episode 6505 both laboratory completeness and overall completeness for SS is 81%.

Holding Times

Method 160.5 requires SS samples be analyzed within 48 hours following collection. Analysis of traffic reports and laboratory data sheets indicates 6 of the 32 SS samples were analyzed outside the 48 hour hold time window. Table 2 provides information on the samples analyzed outside the method-specified holding time.

Table 2. SS Samples Exceeding Hold Times

Sample Number	Sample Description	Sample Hold Time	Method Hold Time	SS Result
65647	Accommodations Wastewater	129 hours	48 hours	1.1 ml/L
65707	Treatment System Effluent	129 hours	48 hours	<0.1 ml/L
65607	Galley Wastewater	129 hours	48 hours	1.8 ml/L
65727	Treatment System Effluent	129 hours	48 hours	<0.1 ml/L
65667	Treatment System Influent	129 hours	48 hours	24 ml/L
65627	Laundry Wastewater	129 hours	48 hours	0.99 ml/L

Because the holding time was exceeded by more than 3 days (approximately 81 hours) for the six samples shown in Table 2, this SS data is not considered valid and should not be used in the engineering assessment for the cruise ship rulemaking. Accordingly, these results will be excluded from the analytical database.

Precision Analysis

Reproducibility for SS is measured as relative percent difference (RPD) between duplicate samples. The QAPP for the Cruse Ship Rulemaking specifies the target RPD for field duplicate samples as less than 30%. Field duplicate samples were collected for SS, and the results are shown in Table 3. The RPDs shown in Table 3 could not be calculated since one or both of the field duplicate sample results were less than the laboratory reported detection limit.

Although the RPD for these samples cannot be calculated, SS analysis precision is acceptable for this program, and the reported SS results are valid.

Table 3. Relative Percent Difference Between Field Duplicate Samples

Sample No.	SS Result	Sample No	SS Result	RPD	RPD Target
65691	<0.1 ml/L	65711	<0.1 ml/L	NA	<30%
65695	<0.1 ml/L	65715	<0.1 ml/L	NA	<30%
65753	<0.1 ml/L	65764	<0.1 ml/L	NA	<30%

NA: RPD cannot be calculated since one or both of the sample results is less than the detection limit.
RPD target from QAPP for Rulemaking Support for Large Cruise Ships in Alaska Waters, May 2004.

Data Quality Assessment

This data validation assessment indicates the SS data collected during Sampling Episode 6505 can be used for the large cruise ship rulemaking effort, with the exception of those samples that were analyzed outside the holding time of 48 hours.

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MEMORANDUM

DATE: February 3, 2005

TO: Don Anderson, Project Officer
EPA EAD

FROM: Sara Clark, Quality Assurance Chemist
Sample Control Center

SUBJECT: Data Review Narrative for Available Cyanide Analyses by Method OIA-1677 for the Alaska Cruise Ship Industry, Episode 6505

OVERVIEW

Under EPA Purchase Order EP-C-04-048, Bayer Material Science LLC, submitted data for the analysis of available cyanide by EPA Method OIA-1677 for 33 samples in Episode 6505. Table 1 provides a listing of samples, matrices, descriptions, and sampling dates. Available cyanide was the only analysis performed by Bayer for these samples.

Table 1 - Sample Identifiers, Matrices, Descriptions, and Sampling Dates

EPA Sample #	Matrix	Sample Description	Sampling Date
65591	Aqueous	SP1, Galley wastewater	08/29/04
65595	Aqueous	SP1, Galley wastewater	08/30/04
65599	Aqueous	SP1, Galley wastewater	08/31/04
65603	Aqueous	SP1, Galley wastewater	09/01/04
65607	Aqueous	SP1, Galley wastewater	09/02/04
65615	Aqueous	SP2, Laundry wastewater	08/30/04
65619	Aqueous	SP2, Laundry wastewater	08/31/04
65623	Aqueous	SP2, Laundry wastewater	09/01/04
65627	Aqueous	SP2, Laundry wastewater	09/02/04
65631	Aqueous	SP3, Accommodations wastewater	08/29/04
65635	Aqueous	SP3, Accommodations wastewater	08/30/04
65639	Aqueous	SP3, Accommodations wastewater	08/31/04
65643	Aqueous	SP3, Accommodations wastewater	09/01/04
65647	Aqueous	SP3, Accommodations wastewater	09/02/04
65651	Aqueous	SP4, Influent to wastewater treatment	08/29/04
65655	Aqueous	SP4, Influent to wastewater treatment	08/30/04
65659	Aqueous	SP4, Influent to wastewater treatment	08/31/04
65663	Aqueous	SP4, Influent to wastewater treatment	09/01/04
65667	Aqueous	SP4, Influent to wastewater treatment	09/02/04

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EPA Sample #	Matrix	Sample Description	Sampling Date
65691	Aqueous	SP6, Effluent from wastewater treatment	08/29/04
65695	Aqueous	SP6, Effluent from wastewater treatment	08/30/04
65699	Aqueous	SP6, Effluent from wastewater treatment	08/31/04
65703	Aqueous	SP6, Effluent from wastewater treatment	09/01/04
65707	Aqueous	SP6, Effluent from wastewater treatment	09/02/04
65711	Aqueous	SP7, Effluent from wastewater treatment	08/29/04
65715	Aqueous	SP7, Effluent from wastewater treatment	08/30/04
65719	Aqueous	SP7, Effluent from wastewater treatment	08/31/04
65731	Aqueous	SP8, Galley wastewater	08/26/04
65733	Aqueous	SP9, Laundry wastewater	08/26/04
65737	Aqueous	SP10, Food pulper	08/26/04
65741	Solid	SP11, Screening solids	08/30/04
65745	Aqueous	SP12, Biosludge wastewater	08/26/04
65753	Aqueous	SP14, Source water	08/31/04

These data have been reviewed in accordance with SCC's *Data Review Guidelines for Classical Wet Chemistry Analyses* (November 2004), and with the specifications listed in the analytical requirements summary for this episode. Below is a summary of the results of the data review process, followed by detailed descriptions of data issues identified with these samples. Based on this review, all data in this episode are considered to be of acceptable quality with the qualifications described below and detailed in the attached data review summary table (Table 2).

SUMMARY

All samples were successfully analyzed within the method-specified holding times for available cyanide. Initial precision and recovery samples (IPRs) were successfully performed prior to sample analysis. The calibration and continuing calibration standards were successfully analyzed. Preparation blanks were performed and there was no contamination detected above the laboratory's reporting limits. The QC samples, including the ongoing and precision recovery (OPR) sample and matrix spike/matrix spike duplicate (MS/MSD) samples, demonstrated that laboratory performance for these analyses was acceptable, with the exception of the data issues described below.

DATA ISSUES

Available Cyanide Greater than Total Cyanide

For all samples in this episode, SCC evaluated total cyanide results against available cyanide results, and found that available cyanide was detected in samples 65603, 65659, 65731, and 65745, while total cyanide were not detected in these samples or detected at a lower amount. In theory, the total cyanide results in any given sample will be greater than either the free or available cyanide results for the same sample. However, for these samples, it is important to recognize that the total cyanide is determined using a separate sample from that used for free or available cyanide, and that the available cyanide determination was performed by a different laboratory. In addition, the overall homogeneity of the waste

stream being sampled can have a significant effect on the cyanide results. Therefore, it may not be possible to identify problems that would invalidate one cyanide fraction or the other.

In sample 65603 (galley wastewater), the available cyanide result of 2.2 µg/L is below the detection limit for the total cyanide analysis. Therefore, SCC recommends accepting the available cyanide result as reported.

Although MS/MSD samples were prepared from sample 65741 (screening solids) and met the acceptance criteria, there are no MS/MSD results for the biosolids matrix in this episode. This limits SCC's ability to evaluate the potential effects of the sample matrix for sample 65745 (biosolids), where the available cyanide results are almost 40% higher than the total cyanide results. Therefore, lacking matrix-specific supporting data that might explain the observed differences, SCC recommends including both cyanide results for sample 65745 in the database, but flagging them to indicate the irreconcilable differences.

The available cyanide result in sample 65731 (galley wastewater) was 12.9 µg/L and and total cyanide was a non-detect at 5 µg/L. SCC recommends including both cyanide results for sample 65731 in the database, but flagging them to indicate the irreconcilable differences.

Sample 65659 is an influent sample and MS/MSD aliquots are not prepared for influents, as discussed earlier. Total cyanide was reported as not detected and the available cyanide was reported at 6 times the total cyanide detection limit. Therefore, lacking matrix-specific supporting data that might explain the observed differences, SCC recommends including both cyanide results for sample 65659 in the database, but flagging them to indicate the irreconcilable differences.

Although there were three pairs of field duplicates collected for cyanide samples in Episode 6505, they all involved effluent samples, none of which showed disparate results between total and available cyanide.

Please note that the samples were analyzed for total cyanide by Analytical Laboratory Services, Inc. A separate narrative has been prepared for the total cyanide analysis.

If you have any questions regarding the analyses of these samples or the review of these data, please contact SCC's Data Review Team Leader, Pornkeo Chinyavong, by telephone at (703) 461-2346 or by facsimile at (703) 461-8056.

Attachments

cc: Beverly Randolph, EPA
Marla Smith, EPA
Nelson Andrews, EPA
Deb Falatko, ERG
Jodi King, ERG
Deb Miller, CSC
Harry McCarty, CSC
Pornkeo Chinyavong, CSC

Table 2
Data Review Summary Table

Episode: 6505 **Analysis:** Available Cyanide

Industry: Alaska Cruise Ship **Reviewer:** S. Clark

Sample	Analyte	Action	Reason	SCC Qual	Level
65745	Available cyanide	—	Irreconcilable results for total and available cyanide. Results may not be suitable for the intended purpose	IRR	NA
65731					
65659					
65603		Minimum value	Result for available cyanide greater than total cyanide, low MS/MSD recoveries	NA	2.2 µg/L

NA = Not applicable
IRR = Irreconcilable results for total and available cyanide. Results may not be suitable for the intended purpose.

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MEMORANDUM

DATE: January 18, 2005

TO: Don Anderson, Project Officer
EPA EAD

FROM: Harry B. McCarty
Senior Scientist

SUBJECT: Issues Associated with Results for Total Cyanide versus Available Cyanide for Episodes 6503, 6504, 6505, and 6506

The purpose of this memorandum is to provide a general discussion of the analysis of various forms of cyanide in aqueous samples, describe the cyanide analyses conducted as part of EPA's investigation of discharges from Alaskan cruise ships, and provide recommendations regarding specific results from Sampling Episodes 6503, 6504, 6505, and 6506.

Forms of Cyanide

Cyanide is an inorganic moiety composed of one carbon atom and one nitrogen atom that is most often found as an anion with a charge of -1. The cyanide anion can bond with various metals or other elements to form a wide range of cyanide compounds. The simplest form of cyanide is hydrogen cyanide, HCN, which readily dissociates into H^+ and CN^- in water. HCN is known as "free cyanide" and is the most toxic form of cyanide. Most forms of cyanide are toxic, with their toxicities depending on their ability to release free cyanide.

"Total cyanide" (or "cyanide, total") is an operationally defined term used to describe the cyanides that are measured using the total cyanide test. Total cyanide methods attempt to measure the amount of CN^- present in a sample, regardless of its oxidation state or complexation to other ions or compounds. Some complexes and organic cyanide compounds are resistant to the dissociation that occurs during the digestion/distillation step, and others are completely decomposed. Therefore, total cyanide is a method-defined parameter because the analytical conditions determine the actual analyte quantity measured.

Compounds such as metallocyanides are resistant to oxidation, with iron cyanide being one of the most resistant, and nickel, copper, and noble metal cyanides being somewhat resistant. These compounds will contribute to the measured total cyanide to some degree, but are not always completely recovered by the digestion/distillation procedure. Cyanide compounds such as thiocyanate, cobaltocyanide compounds, and cyanohydrin organic compounds are not measured at all by this procedure include because they decompose during the digestion procedure.

Two other operationally defined groups of cyanide species are "available cyanide," and "cyanide amenable to chlorination" (or "amenable cyanide"). Available cyanide generally encompasses both the free cyanide and those complexed species that are relatively easily dissociated in a weak acid solution. Amenable cyanide is the term used to describe that fraction of cyanide that can be destroyed by the common wastewater treatment procedure of chlorinating the wastewater. Some cyanides in solution will react with chlorine (Cl_2) to form cyanogen chloride (CNCl), a highly toxic gas with limited solubility. The cyanogen chloride hydrolyzes at alkaline pH to form the cyanate ion (CNO^-), which is much less toxic than the parent cyanide. Amenable cyanide encompasses the true free cyanide portion, plus additional cyanides that easily dissociate in aqueous solutions.

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Analytical Methods for the Analysis of Cyanide in Aqueous Samples

Total Cyanide Methods

The seven methods approved at 40 CFR 136 for total cyanide in aqueous samples are:

- EPA Method 335.2
- EPA Method 335.3
- Standard Method 4500-CN^- D
- Standard Method 4500-CN^- E
- ASTM Method D2036-98A
- USGS Method I-3300-85
- USGS Method I-4302-85

EPA Methods 335.2 and 335.3 were employed by the two laboratories that analyzed samples from Episodes 6503, 6504, 6505, and 6506 for total cyanide. However, this general discussion applies to all seven approved methods.

All of the total cyanide methods involve digestion of the sample using concentrated sulfuric acid with magnesium ion in solution as a catalyst. (The digestion procedure is presented as the stand-alone procedure Standard Method 4500-CN^- C). The cyanide is converted to HCN gas, which is collected in a scrubber containing NaOH. This solution is then analyzed for the CN^- ion. The determinative methods use one of several techniques to measure CN^-, including titration with silver nitrate, colorimetry with an organic dye, or automated distillation-colorimetry for continuous flow analytical systems that utilizes UV oxidation of the sample to release bound cyanide.

Available Cyanide Methods

The four methods approved at 40 CFR 136 for available cyanide in aqueous samples are:

- EPA Method 335.1
- Standard Method 4500-CN^- G
- ASTM Method D2036-98B
- Method OIA-1677

Method OIA-1667 was employed for the analyses of available cyanide in Episodes 6503, 6504, 6505, and 6506. However, this general discussion applies to all four approved methods.

Although these four methods are approved at 40 CFR 136 for “available cyanide,” there are slight differences in forms of cyanide that are targeted by these methods. Generally speaking, the differences are not significant in compliance monitoring, but may be more important in other types of investigations.

The OIA-1677 procedure targets the weak acid dissociable cyanide by treating the sample with ligand-exchange reagents that release cyanide ions from the metal-cyano complexes. During the analysis, cyanide ions are converted to hydrogen cyanide (HCN) that passes through a gas diffusion membrane into an alkaline receiving solution where it is converted back to cyanide ion. The cyanide ion is monitored amperometrically, using a silver electrode.

EPA Method 335.1, SM 4500-CN^- G, and ASTM D2036-98B measure the cyanide amenable to chlorination. In these methods, two aliquots of the sample are analyzed. One aliquot is subjected to chlorination and the other aliquot is not. Both aliquots are distilled and analyzed for CN^-. The amenable

cyanide is calculated as the difference between the cyanide results from the chlorinated and nonchlorinated aliquots.

Difficulties and Interferences in the Analysis of Cyanide

A number of interferences affect cyanide determinations. Strong oxidizers, such as free chlorine, will destroy the "amenable" portion of cyanide. Sulfide present in the sample will oxidize cyanide into thiocyanate, which is not measurable in the cyanide methods. The sample should be tested for sulfide at the time of sample collection, and if sulfides are found, they should be removed by precipitation with lead carbonate or cadmium nitrate. This precipitation procedure should take place before the sample is preserved with NaOH, and any insoluble sulfide that is produced should be removed by filtration. Additional steps may be needed if the sample contains sulfide *and* particulate matter that may consist of alkali metal-heavy metal-cyanide complexes.

Most interferences in the total cyanide determination are removed by the distillation step, but some are not. Nitrate and nitrite can form cyanide as a reduction product of nitrogen-containing organic compounds, and are removed by the addition of sulfamic acid during distillation. Aldehydes can form cyanohydrins, which will convert to nitrile during the digestion. Sulfides also can be produced during distillation, and will distill along with cyanide and form thiocyanate. Sulfide production can be prevented by the addition of lead carbonate to the absorber solution, and the subsequent filtration of the absorber solution before analysis. Other potential interferences include sugars that can form cyanohydrins, sulfur compounds that may release sulfide, compounds that could release or form nitrite, as well as any sample constituent that could produce one of the interferences under the conditions of the digestion.

Method OIA-1677 does not employ a digestion step. Therefore, sulfides must be removed by the precipitation procedure described above. In addition to concerns about sulfides reacting with the cyanide in the sample before it can be measured (i.e., a negative interference), sulfides also can be a positive interference in this procedure if they react with acid in the sample to produce hydrogen sulfide (HS_2). The hydrogen sulfide will cross the membrane in the gas diffusion cell and produce a signal at the silver electrode that would be measured as cyanide. As noted in the method, "polysulfides" (compounds containing more than one sulfide) can be intractable interferences.

Interpretation of Cyanide Results

In theory, the total cyanide results in any given sample will be greater than either the free or available cyanide results for the same sample. While this usually holds true for wastewater effluent samples, some effluents and some other sample types, such as influents, may yield results in which the free or available cyanide results exceed the total cyanide results. For example, the results for free cyanide derived using the chlorination technique can result in free cyanide concentrations greatly in excess of total cyanide concentrations. When this occurs, it is likely due to the formation of cyanide by chlorination of nitrogen-containing organic compounds in the sample. While it might be possible to determine if such nitrogen-containing organics were present in the sample, this step is neither required nor practical for laboratories performing routine cyanide analyses.

Sulfides that may be in the sample present a significant possibility for false negative results for total cyanide through the oxidization of cyanide to thiocyanate, which is not measured by the cyanide methods, as discussed above. Sulfides can be both a negative interference and a positive interference with the determination of available cyanide by Method OIA-1677, as described above.

It is also important to recognize that the total cyanide is determined using a separate sample from that used for free or available cyanide, and that the amenable cyanide determination is made using

separate aliquots of a separate sample. Thus, the overall homogeneity of the waste stream being sampled can have a significant effect on the cyanide results.

While the results for any cyanide measurement are evaluated by SCC relative to the requirements of the methods used for the determinations, it may not be possible to identify problems that would invalidate one cyanide fraction or the other. In instances where there are one or more QC failures associated with one of the cyanide fractions, but not with the other fraction, the results for the fraction with the QC failures will be appropriately qualified.

In instances where there are no QC failures associated with either cyanide fraction, but the available cyanide results are greater than the total cyanide results by a large margin, there is no way to determine which analysis was correct. In such cases, both sets of cyanide results are suspect. For the purposes of reviewing results for EPA's Effluent Guidelines Program, when cyanide is reported as present (e.g., not a non-detect) in both fractions and there are no QC failures in either fraction, differences where the available cyanide results are more than 30% above the total cyanide results suggest that irreconcilable problems exist. The 30% difference is a consensus value used by SCC. Differences less than 30% are considered a function of the routine variability that could be present in both measurements.

When such irreconcilable problems exist with the results of paired samples analyzed for both total and available cyanide, SCC recommends that both results (total and available) be included in the database, and that both results be flagged to alert the data user to the presence of such problems.

Cyanide Methods Used for Samples from the Alaskan Cruise Ship Project

The following table lists the methods used for total and available cyanide for Episodes 6503, 6504, 6505, and 6506. Two different laboratories performed the total cyanide analyses for these four episodes, using two different methods approved at 40 CFR 136. One other laboratory analyzed the available cyanide for all four episodes using Method OIA-1677.

Episode #	Method for Total Cyanide	Method for Available Cyanide
6503	EPA Method 335.3	Method OIA-1677
6504	EPA Method 335.2	Method OIA-1677
6505	EPA Method 335.3	Method OIA-1677
6506	EPA Method 335.2	Method OIA-1677

Based on communications with the sampling contractor, the samples were tested for sulfide in the field, using a field colorimeter with a detection limit of approximately 10 µg/L. Samples testing positive for sulfides were treated in the field to minimize the interferences. Because of concerns regarding whether the treated samples were subsequently filtered in the field, the laboratories were instructed to filter any sample showing turbidity.

A review of the traffic reports (TRs) for the samples in these four episodes indicates that some of the samples in Episode 6503, the first episode in the Alaskan Cruise Ship project, were not treated with lead carbonate to remove sulfides. SCC consulted EPA and the sampling contractor and determined that the following 11 samples were not treated with lead carbonate:

65202, 65207, 65211, 65227, 65231, 65235, 65269, 65273, 65277, 65283, and 65295

In an effort to address the potential positive interference of nitrate and nitrite in the samples, the laboratories performing the total cyanide analyses were advised to increase the amount of sulfamic acid added to each sample during distillation by a factor of 2, from 2 g per sample to 4 g per sample.

Episode-specific Findings

SCC has reviewed the results for both total cyanide and available cyanide in Episodes 6503, 6504, 6505, and 6506. Episode-specific findings are detailed below.

In addition to the data qualifiers described in SCC's *Data Review Guidelines for Classical Wet Chemistry Analyses* (November 2004), two additional qualifiers were developed to address the total and available cyanide results from the Alaskan Cruise Ship Project. In cases where the available cyanide results exceed those for total cyanide by more than 30% and there are not any matrix-specific quality control data such as matrix spike recoveries, the total cyanide and available cyanide results will be flagged with the "IRR" qualifier. The "SCC Reason" field in the database for such results will read "Irreconcilable results for total and available cyanide. Results may not be suitable for the intended purpose."

In other instances, when SCC's review identifies multiple concerns with the results for a given sample, including those that begin with sample collection and others involving the analysis of the sample itself or any associated quality control samples, the total cyanide and available cyanide results will be flagged with the "MISCA" qualifier. The "SCC Reason" field in the database for such results will read "Multiple issues with sample collection and analysis that may have led to the irreconcilable results for total and available cyanide observed in this sample."

Episode 6503

Three sets of matrix spike/matrix spike duplicate (MS/MSD) samples were prepared for total cyanide analysis in Episode 6503 on samples 65207 (accommodations wastewater), 65269 (an effluent), and 65273 (an effluent). The MS/MSD recoveries for the three aqueous MS/MSD pairs were below the acceptance limits:

- 22% and 21% for sample 65207,
- 30% and 33% for sample 65269, and
- 5% and 1% for sample 65273

suggesting a potential for low bias in the total cyanide results for the associated aqueous samples.

The recoveries for the laboratory control samples (LCS, OPR, or QC check sample) analyzed along with the field samples were acceptable, indicating that the laboratory's overall analytical process was in control and suggesting either problems with the distillation process or an interference present in the sample matrix. Because the focus of the EAD analytical contracts is on effluent samples and because there are no acceptance criteria for aqueous matrices other than effluents, no MS/MSD analyses were performed on samples representing influents to the treatment process.

The total cyanide result for Sample 65273 (effluent) was reported as a non-detect at 5 µg/L and available cyanide was a non-detect at 2 µg/L. An MS/MSD pair for available cyanide was prepared from this sample and had recoveries of 101% and 102% respectively, while the MS/MSD recoveries for total cyanide were 5% and 1%, as noted earlier. This suggests a significant potential for low bias in the total cyanide result. Therefore, based on the low MS/MSD recoveries for total cyanide in this sample, the total

cyanide non-detect is considered a minimum value and the available cyanide result is considered acceptable without qualification.

There were nine other samples in Episode 6503 that exhibited the pattern of total cyanide results less than the available cyanide results. Samples 65219, 65227, 65231, and 65235 are influents to treatment and, as noted above, there are no MS/MSD analyses that demonstrate the performance of either method for this matrix type. Samples 65227, 65231, and 65235 also are among the 11 samples in this episode that were not treated with lead carbonate in the field to remove sulfides. Therefore, lacking matrix-specific supporting data that might explain the observed differences, and given the potential for positive interferences in the available cyanide measurements, SCC recommends flagging both cyanide results for samples 65227, 65231, and 65235 in the database to indicate that there are multiple issues with sample collection and analysis that may have led to the irreconcilable results observed in these samples. Sample 65219 was treated in the field, therefore SCC recommends including both cyanide results for sample 65219 in the database, but flagging them to indicate the irreconcilable differences.

The total cyanide results for Sample 65207 (accommodations wastewater) were reported as a non-detect at 5 µg/L, while available cyanide was detected in this sample at 15.7 µg/L. The MS/MSD recoveries for total cyanide were 21% and 22%, as noted earlier. Sample 65207 also is among the 11 samples in this episode that were not treated with lead carbonate in the field to remove sulfides. Therefore, given the low MS/MSD recoveries for total cyanide in this sample and the potential for positive interferences in the available cyanide measurements, SCC recommends flagging both cyanide results for sample 65207 in the database to indicate that there are multiple issues with sample collection and analysis that may have led to the irreconcilable results observed in this sample.

Sample 65211 is listed as the food pulper wastewater. This description suggests that this matrix is not a treated effluent, but may be a component of the influent to the treatment system. Total cyanide was detected at 14 µg/L, while available cyanide was reported at 88.4 µg/L. Sample 65211 also is among the 11 samples in this episode that were not treated with lead carbonate in the field to remove sulfides. Therefore, lacking matrix-specific supporting data that might explain the observed differences, and the potential for positive interferences in the available cyanide measurements, SCC recommends flagging both cyanide results for sample 65211 in the database to indicate that there are multiple issues with sample collection and analysis that may have led to the irreconcilable results observed in this sample.

Sample 65295 is listed as a source water sample, a matrix type that should not present significant analytical difficulties. Sulfide was not detected in this sample by the field test performed at the time of collection and therefore, this sample is among the 11 samples that were not treated with lead carbonate. Although the presence of available cyanide at 19 µg/L in the source water is unexpected, there is no analytical evidence to suggest that the available cyanide result be excluded. However, an engineering review or other information not available to SCC may lead to a different conclusion. Therefore, SCC recommends including both cyanide results for sample 65295 in the database, but flagging them to indicate the irreconcilable differences.

Episode 6503 included two sets of field duplicate samples that were sent to the laboratories blind. The two pairs were samples 65261 and 65281, and samples 65265 and 65283, all effluent samples. The total cyanide results in sample 65261 were reported as a non-detect at 5 µg/L, while available cyanide was reported as a non-detect at 2 µg/L. For sample 65281, the blind field duplicate, the total cyanide results were reported as a non-detect at 5 µg/L, while available cyanide was detected in this sample at 8.96 µg/L. A similar pattern occurs for the cyanide results in the other field duplicate pair. Total cyanide was reported as a non-detect at 5 µg/L in both samples 65265 and 65283, while available cyanide was detected at 5.86 µg/L in sample 65265 and as a non-detect a 2 µg/L in sample 65283.

The MS/MSD recoveries for total cyanide in effluent sample 65273 were very low (1% and 5%), and low (33% and 30%) in sample 65269, suggesting a potential negative basis that may affect the total cyanide results in samples 65261, 65281, 65265, and 65283. Therefore, SCC recommends that the total cyanide results in sample 65261 and 65281 be considered minimum values. The difference between the available cyanide results in the two field duplicate samples (e.g., a non-detect at 2 µg/L and a detect at 8.96 µg/L) cannot be explained on the basis of the MS/MSD results for available cyanide in sample 65273, which was also an effluent. Given the discrepancy between the field duplicate results for available cyanide, SCC recommends including the available cyanide results for samples 65261 and 65281 in the database, but flagging them to indicate the irreconcilable differences. SCC recommends that the total cyanide results for samples 65261 and 65281 also be flagged to indicate the irreconcilable differences, as a further precaution.

Because of the low MS/MSD recoveries in the other effluent samples, the total cyanide result for sample 65265 is considered a minimum value. The available cyanide result of 5.86 µg/L is well within 30% of the reported detection limit for total cyanide (e.g., 5 µg/L), and therefore would normally not be qualified. However, because the available cyanide result in the field duplicate of the sample, 65283 is a non-detect at 2 µg/L, SCC recommends including both the total and available cyanide results for sample 65265 in the database, but flagging them to indicate the irreconcilable differences.

Sample 65283 also is among the 11 samples in this episode that were not treated with lead carbonate in the field to remove sulfides. Given the very low MS/MSD recoveries for total cyanide in effluent samples in this episode, SCC recommends flagging both cyanide results for sample 65283 in the database to indicate that there are multiple issues with sample collection and analysis that may have led to the irreconcilable results observed in these samples.

Episode 6504

Three sets of MS/MSD samples were prepared for total cyanide analysis in Episode 6504 on samples 65519 (an effluent), 65523 (an effluent), and 65527 (accommodations wastewater), and all showed acceptable spike recoveries. Thus, there do not appear to be pervasive problems with the recovery of total cyanide in samples from this episode.

A comparison of the total cyanide results and available cyanide results for samples 65395, 65455, 65459, 65463, 65467, and 65471 indicates that the total cyanide results were non-detects at 5 µg/L, while available cyanide was detected in each of these samples at approximately 11 to 36 µg/L. In addition, total cyanide was reported as present in sample 65411 at 6 µg/L, while the available cyanide result was 35.7 µg/L (e.g., six time the total cyanide result).

Sample 65395 is listed as the galley wastewater. This description suggests that this matrix is not a treated effluent, but may be a component of the influent to the treatment system. Therefore, lacking matrix-specific supporting data that might explain the observed differences, SCC recommends including both cyanide results for sample 65395 in the database, but flagging them to indicate the irreconcilable differences.

Sample 65411 is listed as the food pulper wastewater. This description suggests that this matrix is not a treated effluent, but may be a component of the influent to the treatment system, and as noted above, there are no MS/MSD data that demonstrate method performance for matrices other than effluents. During the review of the data, SCC noted that the traffic report for the aliquot of Sample 65411 for total cyanide analysis indicated that the aliquot was collected at 14:00 on 8/10/04, while the traffic report for the aliquot submitted for available cyanide analysis indicated that that aliquot was collected at 3:00 PM (15:00) on 8/11/04. This concern was resolved following discussions with EPA and the sampling contractor, whose field records indicated that both aliquots were collected at the same time, and that the

one traffic report was incorrect. Having resolved the issue of the time of sample collection, but lacking matrix-specific supporting data that might explain the observed differences, SCC recommends including both cyanide results for sample 65411 in the database, but flagging them to indicate the irreconcilable differences.

Samples 65455, 65459, 65463, 65467, and 65471 are all influents to treatment, collected from the same sampling point on consecutive days. The results from samples 65463, 65467, and 65471 are remarkably consistent, varying by only 0.2 µg/L across all three samples. The results for samples 65455 and 65459 are similar to one another, but about twice the concentrations found in the other three samples from this sampling point. There are no MS/MSD analyses that demonstrate method performance for this matrix type, but the consistency in the results suggests that whatever matrix effects may be taking place, they are reproducible. However, lacking matrix-specific supporting data that might explain the observed differences, SCC recommends including both cyanide results for samples 65455, 65459, 65463, 65467, and 65471 in the database, but flagging them to indicate the irreconcilable differences.

Although there were three pairs of field duplicates collected for cyanide samples in Episode 6504, they all involved effluent samples, none of which showed disparate results between total and available cyanide.

Episode 6505

The data for total cyanide samples in Episode 6505 were delivered in five separate data packages, each with its own associated QC sample results. Six pairs of MS/MSD samples were prepared for total cyanide analyses in Episode 6505 on samples 65603 (galley wastewater), 65635 (accommodations wastewater), 65711 (an effluent), 65715 (an effluent), 65719 (an effluent), and 65741 (screening solids).

The data for a seventh pair of MS/MSD samples were delivered in the data package with the results for samples 65731 (galley wastewater) and 65745 (biosolids). However, because of limitations on the sample volume that was provided to the laboratory, the MS/MSD samples were prepared from a non-EPA sample of indeterminate origin and therefore are not useful in evaluating the performance of the total cyanide method on cruise ship samples.

Three of the MS/MSD pairs for aqueous samples and the one MS/MSD pair for the solid samples had acceptable recoveries of total cyanide. None of the samples used to prepare MS/MSD aliquots were samples where the available cyanide results exceeded the total cyanide results.

The MS/MSD results for sample 65603 (galley wastewater) showed recoveries of 59% in both aliquots, which is below the acceptance limits, and suggests a potential low bias in the total cyanide result for that sample. The available cyanide result of 2.2 µg/L is below the detection limit for the total cyanide analysis. Therefore, SCC recommends qualifying the total cyanide result as a minimum value and accepting the available cyanide result as reported.

Although MS/MSD samples were prepared from sample 65741 (screening solids) and met the acceptance criteria, there are no MS/MSD results for the biosolids matrix in this episode. This limits SCC's ability to evaluate the potential effects of the sample matrix for sample 65745 (biosolids), where the available cyanide results are almost 40% higher than the total cyanide results. Therefore, lacking matrix-specific supporting data that might explain the observed differences, SCC recommends including both cyanide results for sample 65745 in the database, but flagging them to indicate the irreconcilable differences.

Sample 65731 is a galley wastewater. The only MS/MSD results for galley wastewater in this episode are for sample 65603, where the recoveries were below the acceptance criteria. Given the

potential for low bias in this matrix, SCC recommends qualifying the total cyanide result as a minimum value. SCC recommends including both cyanide results for sample 65731 in the database, but flagging them to indicate the irreconcilable differences.

Sample 65659 is an influent sample and MS/MSD aliquots are not prepared for influents, as discussed earlier. Total cyanide was reported as not detected and the available cyanide was reported at 6 times the total cyanide detection limit. Therefore, lacking matrix-specific supporting data that might explain the observed differences, SCC recommends including both cyanide results for sample 65659 in the database, but flagging them to indicate the irreconcilable differences.

Although there were three pairs of field duplicates collected for cyanide samples in Episode 6505, they all involved effluent samples, none of which showed disparate results between total and available cyanide.

Episode 6506

A comparison of the total cyanide results and available cyanide results for samples 65896, 65900, 65904, 65908, and 65912 indicates that the total cyanide results were non-detects at 5 µg/L, while available cyanide was detected in each of these samples at levels from approximately 36 to 77 µg/L.

All five of these samples are from the same sampling point, SP 2, and represent influents to the black water and gray water treatment system. Thus, these samples are not treated effluents. Therefore, lacking matrix-specific supporting data that might explain the observed differences, SCC recommends including both cyanide results for samples 65896, 65900, 65904, 65908, and 65912 in the database, but flagging them to indicate the irreconcilable differences.

Although there were three pairs of field duplicates collected for cyanide samples in Episode 6506, they all involved effluent samples, none of which showed disparate results between total and available cyanide.

Summary of Results from Episodes 6503, 6504, 6505, and 6506

SCC's recommendations for handling the total and available cyanide results for the Alaskan Cruise Ship project samples are summarized in the table on the following page

Note: The results in the database are reported in the units provided by the laboratories that performed the analyses. Method OIA-1677 specifies reporting results in units of micrograms per liter (µg/L), whereas the older methods (335.2 and 335.3) specify reporting results in units of milligrams per liter (mg/L). However, for ease of comparison in the table the follows, the results for total cyanide have been converted to the same units as the available cyanide results, µg/L. "ND" indicates that cyanide was not detected. In these cases, the reported detection limit is shown in parentheses.

If you have any questions about the information in this memorandum or the cyanide results in the database, please do not hesitate to contact me at 703-461-2392, or by email at hmccarty@csc.com.

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Summary of SCC Recommendations for Cyanide Results in the Alaskan Cruise Ship Project

Episode	Sample #	Matrix	Total Cyanide (µg/L)	Available Cyanide (µg/L)	SCC Recommendation
6503	65207	Accommodations wastewater	ND (5)	15.7	Sample not treated with lead carbonate to remove sulfides. Low MS/MSD recoveries for total cyanide. Multiple issues with sample collection and analysis that may have led to the irreconcilable results for total and available cyanide observed in this sample.
6503	65211	Food pulper wastewater	14	88.4	Samples not treated with lead carbonate to remove sulfides. No matrix-specific performance data. Multiple issues with sample collection and analysis that may have led to the irreconcilable results for total and available cyanide observed in this sample.
6503	65219	Influent to treatment	ND (5)	10.4	Irreconcilable results for total and available cyanide. Results may not be suitable for the intended purpose.
6503	65227	Influent to treatment	ND (5)	7.54	Samples not treated with lead carbonate to remove sulfides. No matrix-specific performance data for influents. Multiple issues with sample collection and analysis that may have led to the irreconcilable results for total and available cyanide observed in this sample.
6503	65231		ND (5)	35.4	
6503	65235		ND (5)	16	
6503	65261	Effluent from treatment	ND (5)	ND (2)	Total cyanide qualified as minimum value. Irreconcilable results for total and available cyanide. Results may not be suitable for the intended purpose.
6503	65265		ND (5)	5.86	Total cyanide qualified as minimum value. Irreconcilable results for total and available cyanide. Results may not be suitable for the intended purpose.
6503	65273		ND (5)	ND (2)	Total cyanide qualified as minimum value.
6503	65281		ND (5)	8.96	Total cyanide qualified as minimum value. Irreconcilable results for total and available cyanide. Results may not be suitable for the intended purpose.
6503	65283	Effluent from treatment	ND (5)	ND (2)	Total cyanide qualified as minimum value. Sample not treated with lead carbonate to remove sulfides. Multiple issues with sample collection and analysis that may have led to the irreconcilable results for total and available cyanide observed in this sample.

Episode	Sample #	Matrix	Total Cyanide (µg/L)	Available Cyanide (µg/L)	SCC Recommendation
6503	65295	Source water	ND (5)	19.1	Total cyanide qualified as minimum value. Irreconcilable results for total and available cyanide. Results may not be suitable for the intended purpose.
6504	65395	Galley wastewater	ND (5)	22.4	Irreconcilable results for total and available cyanide. Results may not be suitable for the intended purpose.
6504	65411	Food pulper	6	35.7	
6504	65455	Influent to treatment	ND (5)	26.9	
6504	65459	Influent to treatment	ND (5)	29	
6504	65463	Influent to treatment	ND (5)	11.7	
6504	65467	Influent to treatment	ND (5)	11.5	
6504	65471	Influent to treatment	ND (5)	11.6	
6505	65603	Galley wastewater	ND (5)	2.2	Total cyanide qualified as minimum value
6505	65659	Influent to treatment	ND (5)	30.7	Irreconcilable results for total and available cyanide. Results may not be suitable for the intended purpose.
6505	65731	Galley wastewater	ND (5)	12.9	Total cyanide qualified as minimum value. Irreconcilable results for total and available cyanide. Results may not be suitable for the intended purpose.
6505	65745	Biosolids	11	15.2	Irreconcilable results for total and available cyanide. Results may not be suitable for the intended purpose.
6506	65896	Influent to treatment	ND (5)	45.5	
6506	65900	Influent to treatment	ND (5)	36.2	
6506	65904	Influent to treatment	ND (5)	75.6	
6506	65908	Influent to treatment	ND (5)	72.2	
6506	65912	Influent to treatment	ND (5)	76.5	

Computer Sciences Corporation
www.csc.com

MEMORANDUM

DATE: January 31, 2005

TO: Don Anderson, Project Officer
EPA EAD

FROM: Harry B. McCarty, Ph.D.
Senior Scientist

SUBJECT: Summary of Telephone Conversation with the Available Cyanide Laboratory

At your suggestion, I contacted the laboratory that ran the available cyanide analyses for Episodes 6503 to 6506 and asked about cross-contamination concerns, glassware washing procedures, and other aspects of the analysis that might explain the discrepancies between the total and available cyanide results. I spoke with John Sebroski, the laboratory director at Bayer Material Science on January 19, 2005. John gave me the following information:

- All of the "glassware" involved in the analysis is disposable. This includes the cups on the autosampler, the tubing on the flow injection system, etc. They do not reuse any of it, so there are no washing issues.

- The design of the flow injection instrumentation minimizes any concerns about carryover because the sample is injected into a continuous flow of solution that runs through the analyzer.

- They do run frequent blanks on the instrument, especially after QC samples such as the lab control sample (LCS or OPR). Those QC samples are run at relatively high levels, and there is no evidence of carryover or memory effects in the blanks. (I also confirmed this prior to calling him, using the data for these four episodes.)

- The OIA-1677 method has an ASTM counterpart that uses the same technique. There is a 2004 version of the ASTM standard that addresses the potential for sulfide interferences by introducing a bismuth nitrate reagent into the system to remove sulfides. John indicated that the use of the bismuth nitrate reagent could easily be accommodated using Method OIA-1677, since the instrumentation is the same as the ASTM standard.

- John indicated that sulfide problems for total cyanide are always a significant issue. He also said that the flow injection system for available cyanide can detect (and be affected by) sulfides at a much lower level than the field test methods will detect. Therefore, any sample not treated with lead carbonate in the field may well have an interference for available cyanide, even if the field test was negative for sulfides.

In summary, my conversation with Mr. Sebroski confirms much of the information SCC summarized in our lengthy discussion of the issues surrounding the total and available cyanide results for this project and generally rules out the chance that analytical concerns, such as carryover or glassware cleaning procedures, as an explanation for the observed cyanide results. Please do not hesitate to contact me at 703-461-2392, or by email at hmccarty@csc.com, if you have any questions.

Federal Sector
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Appendix E

SAMPLING AND ANALYSIS PLAN FOR ISLAND PRINCESS SAMPLING EPISODE 6505

United States Environmental Protection Agency

Sampling and Analysis Plan for Princess Cruises - Island Princess

Sampling Episode 6505
August 21 - September 4, 2004

U.S. Environmental Protection Agency

Oceans and Coastal Protection Division
Office of Wetlands, Oceans, and Watersheds

Engineering and Analysis Division
Office of Science and Technology

Office of Water
1200 Pennsylvania Avenue, NW
Washington, D.C. 20460

August 2004

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1.0 INTRODUCTION

This plan describes the on-board sampling and analysis activities to characterize graywater and blackwater generated and discharged by the cruise vessel Island Princess while in Alaska waters. This sampling program is being performed under the supervision of the Engineering and Analysis Division (EAD) and the Office of Wetlands, Oceans, and Watersheds (OWOW) of the U.S. Environmental Protection Agency (EPA). The sampling effort on board the Island Princess will be performed by personnel from EPA and thier technical contractor.

This document presents information on the planned sampling episode. This document, in combination with the generic health and safety plan, is intended to serve as a guide to the field sampling crew, a review mechanism for EPA personnel, and a source of procedural information for vessel personnel. Personnel from EPA and supporting contractor performed an engineering ship visit to the Island Princess on March 25, 2004. This sampling plan was prepared based on the results from that ship visit and from subsequent follow-up communication with Princess Cruises (Princess) personnel. Tables and figures are presented at the end of each section.

1.1 Background

EPA is currently conducting a data collection effort aimed at ultimately developing new wastewater discharge regulations for large cruise vessels (greater than 500 passengers) that discharge treated sewage (blackwater) or graywater in the waters of the Alexander Archipelago or the navigable waters of the United States within the State of Alaska or within the Kachemak Bay National Estuarine Research Reserve (hereafter referred to as Alaska waters). Such regulations are authorized by "Title XIV - Certain Alaskan Cruise Ship Operations" of the Miscellaneous Appropriations Bill (H.R. 5666) passed by Congress on December 21, 2000 in the Consolidated Appropriations Act of 2001 (Pub. L. 106-554)(Sections 1401 - 1414), also known as the Murkowski Bill. The law defines sewage to mean human body wastes and wastes from toilets and other receptacles intended to receive or retain body waste.

Graywater means only galley, dishwasher, bath, and laundry wastewater; the term does not include other wastes or waste streams. Graywater and blackwater discharges to Alaska waters are also regulated by State law (AS 46-03.460 - 46.03.490).

The sampling program on board the Island Princess and the subsequent pollutant analyses, data analyses, and trip report preparation will focus on graywater and blackwater origins, intermediate stages of treatment, final treated effluent, and final discharges. EPA will use these data in evaluating pollutants in graywater and blackwater generated on board the Island Princess, and determine the capability of the Island Princess's wastewater treatment system to remove pollutants prior to discharge.

Graywater and flow characterization data are also important focuses of the Island Princess's sampling program, as available graywater and flow characterization data are very limited. Sample collection will be established to provide information regarding pollutant concentrations and loadings for individual graywater sources (e.g., galley, laundry) and will provide information to develop time-phased "flow profiles" for the sampled waste streams to analyze patterns and variability in graywater and blackwater flows both throughout the day (e.g., day versus night, mealtimes) and between days (e.g., while underway, in port).

1.2 Ship Selection

EPA selected the Island Princess in order to characterize the performance of the Hamworthy bioreactor and membrane wastewater treatment system. This system is one of several that received certification for continuous discharge in Alaska by the U.S. Coast Guard in 2003. All six of the Princess vessels that cruised to Alaska in 2003 are equipped with this system. EPA based the decision to sample the Island Princess on sampling logistics (i.e., the ship that is most easily accessible, is available at a convenient time, etc.). EPA will sample the Island Princess to collect information regarding the system design and day-to-day operation and maintenance, and will focus sampling not only on the treated effluent, but also include samples of the influent to wastewater treatment, effluent from individual treatment units, and treatment residues.

2.0 SHIP OVERVIEW

The Island Princess is a 88,000 gross ton cruise vessel, capable of carrying 1,950 passengers and 850 crew. The vessel has a length of 964 feet, a beam of 106 feet, and was built with 16 decks to accommodate the passengers and crew. There are a number of dining areas, bars, and cafes located throughout the vessel, plus a casino and gift shop. The Island Princess has a spa and gymnasium that includes a fitness center, juice bar, massage, aromatherapy rooms and a beauty salon. Other amenities include two photo labs for developing pictures, a medical center where passengers can seek medical assistance.

The remainder of Section 2 is a discussion of the Island Princess's wastewater sources, collection, holding, and transfer system, and the wastewater treatment system. The complete ship visit report is located in the administrative record for this project.

2.1 Graywater and Blackwater Generation

2.1.1 Graywater and Blackwater Sources

The Island Princess generates graywater and blackwater that enter the graywater and blackwater treatment system, including:

- Graywater from accommodations (e.g., tubs, showers, sinks);
- Blackwater from toilets, urinals, and other human waste recepticals;
- Salon water; and
- Medical wastewater;

Approximately 500 cubic meters (132,000 gallons) of accommodations graywater and 200 cubic meters (52,800 gallons) of blackwater are generated per day. Accommodations wastewater includes wastewater from tubs, showers, and sinks, as well as wastewater from the bar area pantries. Accommodations account for a large percentage of the graywater generated by the vessel; however, the amount and rate of accommodations graywater is highly variable as it is largely dependent upon passenger activities such as showering. All accommodations

wastewater is routed to the graywater and blackwater treatment system; the only exception would be unusual situations, such as a breakdown of the treatment system. In these cases, the accommodations wastewater is held on board in double-bottom tanks for eventual discharge at sea without treatment outside 12 nautical miles (nm).

Medical wastewater is collected in a separate collecting tank, where it is typically routed to the wastewater treatment system, depending on the source of the medical waste.

Graywater from the galley, food pulper, and laundry is not treated by the graywater and blackwater treatment system. Instead, wastewater from these sources are held in double-bottom tanks for eventual discharge at sea outside 12 nm. Galley graywater (250 m^3/day) is comprised predominantly of dishwashing water. The Island Princess estimates that 50,000 dishes are washed per day, excluding cutlery. The only other sources of galley graywater are floor wash and small sinks in the restaurants, bars, and cafes.

The Island Princess uses a Somat system to grind and dewater food waste from the main galleys and the passenger pantries (located on each deck for room service). The food pulper wastewater generated by the Somat system is recirculated for a few days before discharge to the pulper water storage tank (30.8 m^3/day) and ultimately discharged overboard outside of 12 nm. Gamazyme Boe is added to the pulper water storage tank as a bio odor eliminator. Laundry wastewater (160 m^3/day) is comprised of the main laundry, the crew laundry, the small items laundry, and passenger laundrettes (provided in the common passenger spaces). All dry-cleaning waste is landed as hazardous waste.

Photo lab wastewater is drained into buckets, tested, and disposed as hazardous waste. The photo labs generate approximately 400 liters of hazardous and 200 liters of non-hazardous waste per cruise. The Island Princess does not have silver recovery units on board. The sink in the print shop is also drained into a bucket and disposed of as hazardous waste. Some of the medical waste (x-ray) is drained into buckets, tested and disposed of as hazardous waste. The pools contain fresh water and are discharged overboard.

2.1.2 Graywater and Blackwater Collection, Holding, and Transfer System

Blackwater and accommodations graywater are collected and transferred to the graywater and blackwater treatment system via the collection, holding, and transfer (CHT) system. The graywater system is a gravity system while the blackwater system is a vacuum system. The graywater CHT system-forward is shown in Figure 2-2 and the graywater CHT system-aft is shown in Figure 2-3. Accommodations wastewater flows to small collection tanks located throughout the ship. From these collection tanks, the wastewater is pumped to two large accommodations graywater holding tanks. From the holding tanks, accommodations graywater is pumped to two graywater buffer tanks and fed to the wastewater treatment system. These graywater buffer tanks have a maximum holding time of 6 to 8 hours at night; however, actual wastewater residence time in the tanks is approximately 30 minutes during the day and 2 to 3 hours at night. Blackwater is conveyed directly to vacuum evacuation tanks as shown in Figure 2-1 and then sent to the treatment system.

Laundry and galley wastewater are not routed to the graywater and blackwater treatment system. Laundry wastewater flows to three laundry wastewater holding tanks (HoldP, HoldC, and HoldS) where it is held until discharge at sea outside 12 nm. Galley wastewater flows to a total of eight galley wastewater holding tanks (1P, 1S, 2C, 3P, 3C, 3S, 4P, and 4S). Ultimately all galley wastewater is pumped to either the 3P, 3C, and 3S or to 1P and 1S holding tanks where it is held for discharge at sea outside of 12 nm.

2.2 Graywater and Blackwater Treatment System

The Island Princess operates an advanced graywater and blackwater treatment system designed and manufactured by Hamworthy KSE Limited (Hamworthy). Figure 2-4 is a layout the Hamworthy system on board the Island Princess. The treatment system is comprised of two identical systems, each consisting of a screen press, two-stage aerobic biological treatment, bag filtration, and membrane filtration. The wastewater enters screen presses, which filters paper and other solids from the wastewater. The screenings are collected from the dry waste outlets and into a bagging unit, and the wastewater flows into the aerobic biological

treatment system. Following biotreatment, wastewater flows through two bag filters (200 um), which serve as pretreatment for the subsequent membrane filters. Solids from the bag filters are redirected back to the screen press, while the filtered wastewater is pumped to the membrane system. At the membrane filters, wastewater is separated into permeate (treated) and concentrate streams. Permeate from the membrane filters is discharged to the permeate tank, while the concentrate is returned to the second stage bioreactor. Finally, the treated wastewater from the two parallel systems is combined and disinfected as it passes through the ultraviolet disinfection system.

Treated water discharge from the Hamworthy system can be directed to three options; continuously discharge effluent overboard (typical operation), return effluent to the treatment system during periods of extremely low flow or when turbidity levels are high (occurs approximately once every ten days), or route effluent to holding tanks (only in locations where discharge is prohibited such as Florida ports and Glacier Bay). Chorine or other treatment chemicals are not used in the Hamworthy system.

The graywater and blackwater treatment system operates continuously. When wastewater generation is low, treated effluent from the ultraviolet disinfection system is recirculated through the membranes. No fresh water or sea water is added to the Hamworthy system for dilution; only accommodations graywater is used for dilution. Fresh water and sea water are used only to create the vacuum in the blackwater system. Treated wastewater from the treatment system is not reused as technical water.

Three types of residuals are generated from the Hamworthy system: screening solids from the screen presses, spent filter bags, and waste biosludge. Spent filter bags and the screening solids (50 kg/day) are fed through a small chute into the on-board incinerator. The volume of spent filter bags and screened solids is very small compared to the total volume of solid waste incinerated. The ash from the incinerator is landed on shore. Waste biosludge is removed from the graywater and blackwater treatment system whenever total suspended solids (TSS) amounts reach a certain level (approximately 20,000 mg/L) and the vessel is at sea greater than 12 nm from shore. It is estimated that a few tons of sludge are wasted per treatment unit

every one to two weeks. The biosludge is not dewatered and is immediately discharged overboard (i.e., it is not discharged to holding tanks).

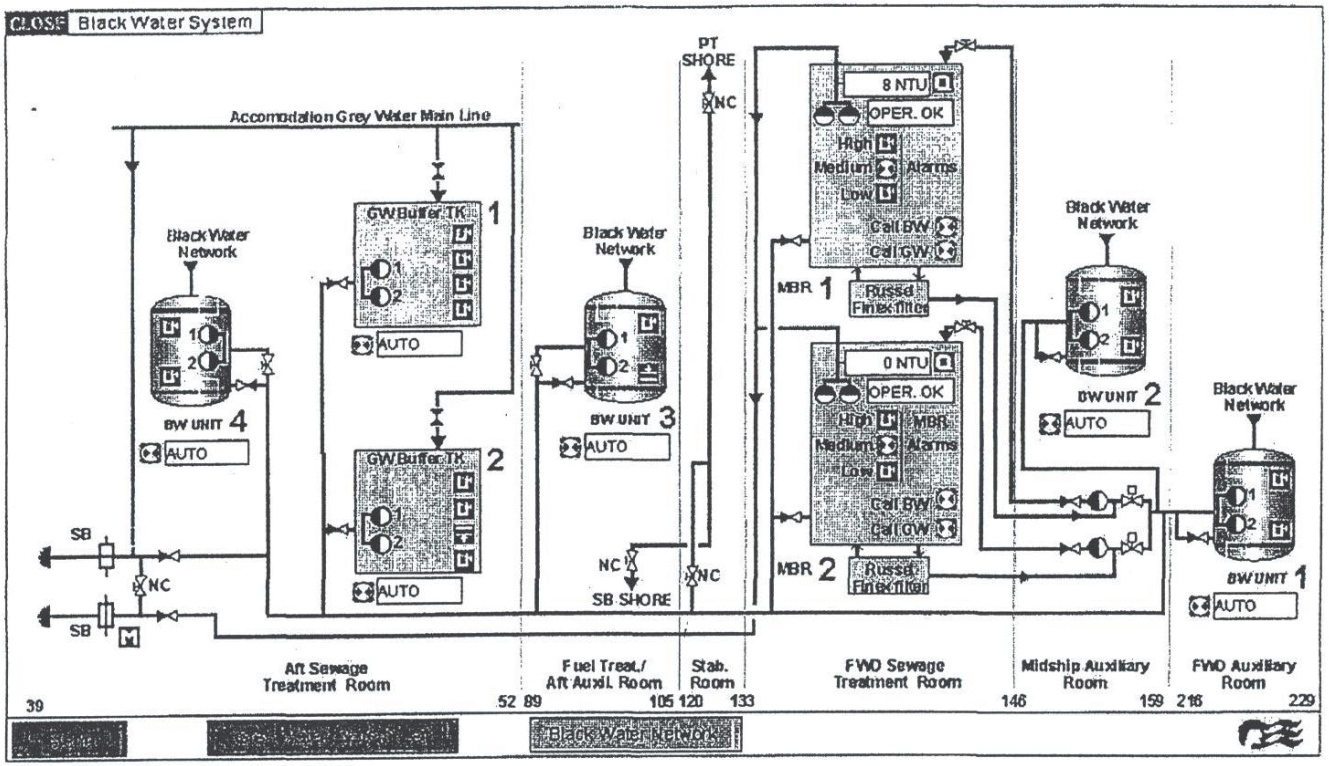

Diagram: 32_S181 - Black Water System

BW System

Figure 2-1. Island Princess Blackwater Collection, Holding, and Transfer System

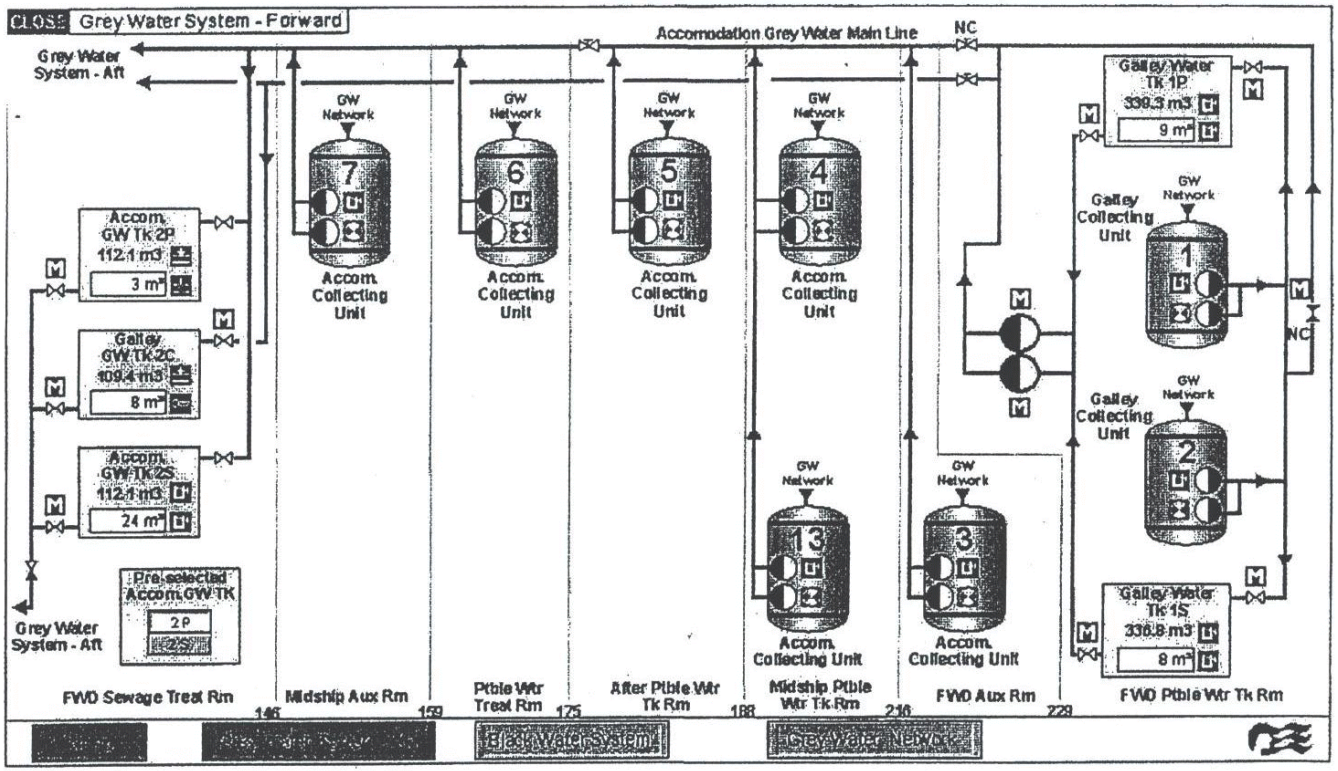

Diagram: 32_S183 - Grey Water System - Forward

GW System FWD

Figure 2-2. Island Princess Graywater Collection, Holding, and Transfer System (FWD)

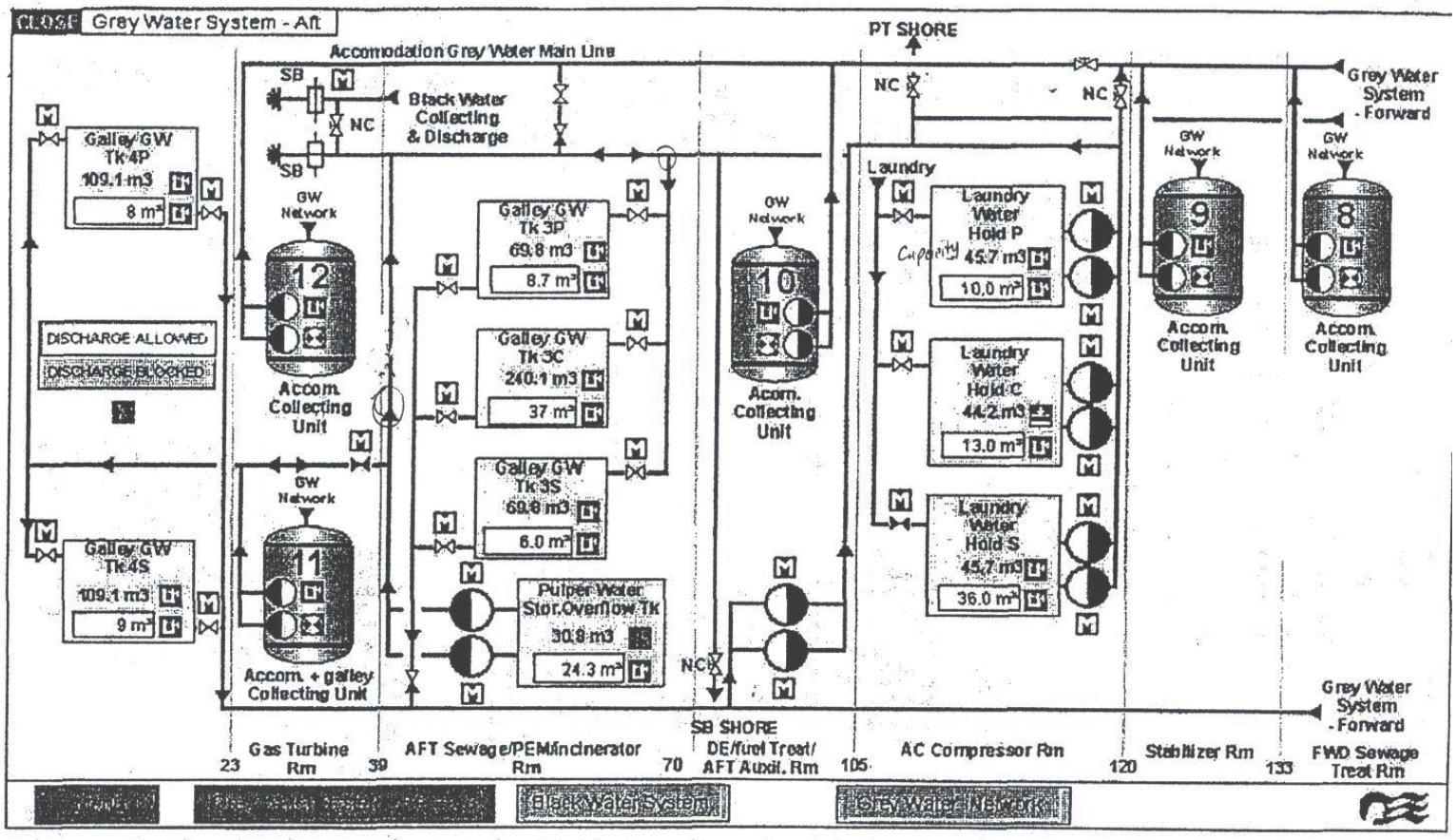

Diagram: 32_S182 - Grey Water System - Aft

GW System AFT

Figure 2-3. Island Princess Graywater Collection, Holding, and Transfer System (AFT)

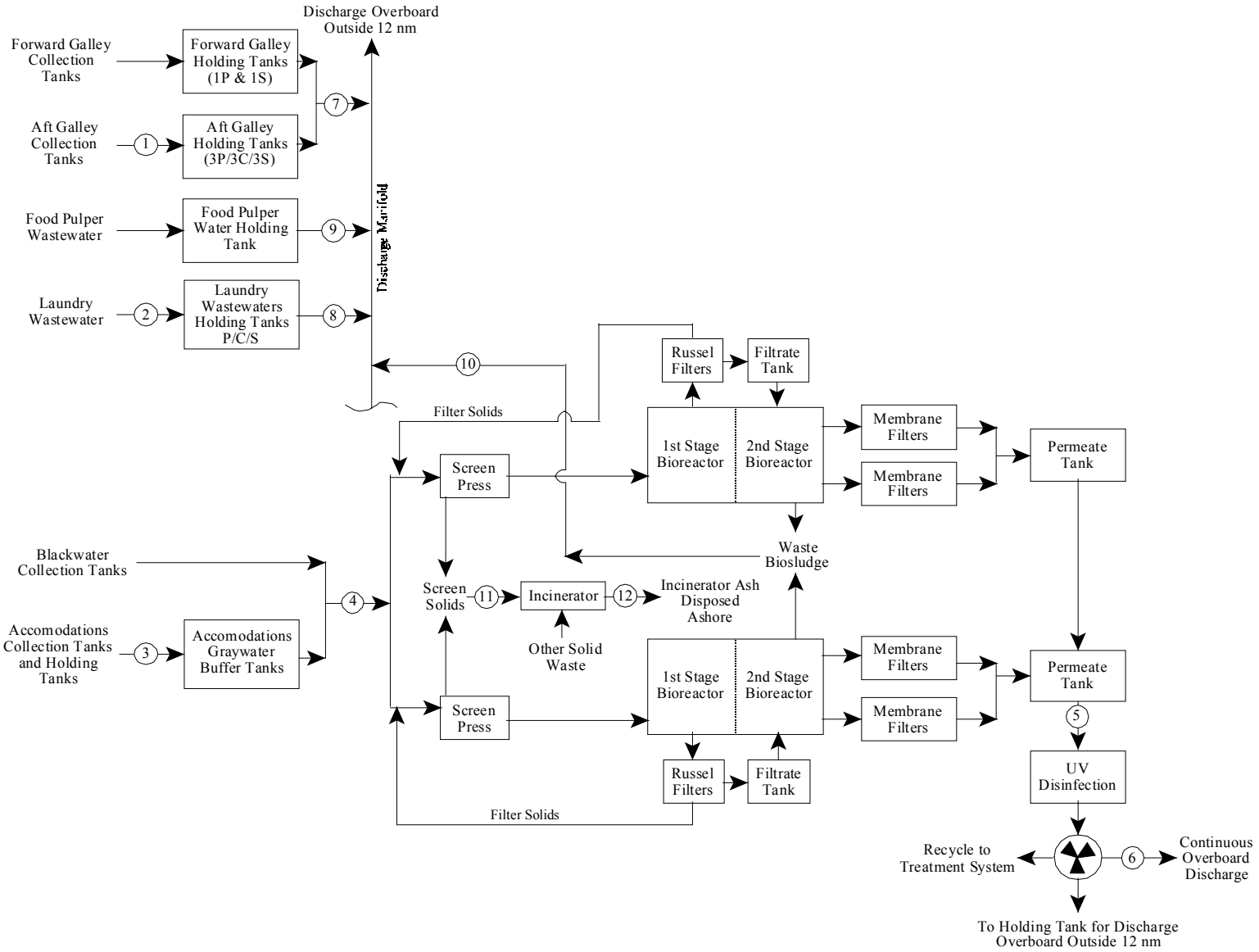

Figure 2-4. Blackwater/Graywater Treatment System and Wastewater Discharge - Island Princess

3.0 SAMPLING APPROACH

This section contains detailed information regarding specific sampling points and locations, sampling methodologies, analytes, sampling frequency and duration, schedule, and logistics for sampling on board the Island Princess.

3.1 Sampling Point Selection

Table 3-1 lists the proposed sampling points, the number of samples to be collected, and the parameters for analysis for this sampling episode. Table 3-2 lists the sample type, sample container, sample volume, and on-board preservation for each parameter or parameter group which may be analyzed. Table 3-3 presents the sampling locations, flow measurement techniques, and the sample collection type (grab or composite).

Figure 2-4 shows the sampling point (SP) locations for the Island Princess blackwater/graywater treatment system. A brief description of what each sampling point will characterize is presented below:

- SP-1 Galley wastewater characterization;
- SP-2 Laundry wastewater characterization;
- SP-3 Accommodations wastewater characterization;
- SP-4 Influent to wastewater treatment;
- SP-5 Influent to UV disinfection;
- SP-6 Effluent from wastewater treatment;
- SP-7 Effluent from wastewater treatment system duplicate;
- SP-8 Galley wastewater discharge;
- SP-9 Laundry wastewater discharge;
- SP-10 Food pulper wastewater discharge;
- SP-11 Screening solids;
- SP-12 Waste biosludge;
- SP-13 Incinerator ash;
- SP-14 Source water;
- SP-15 Trip blank; and
- SP-16 Equipment blank.

3.2 Analyte Selection

Analytes included in the sampling program for the Island Princess include those in the classes of pollutants listed below.

- Fecal coliforms;
- Escherichia coli (E. coli);
- Enterococci;
- Biochemical oxygen demand, 5-day (BOD_5);
- Chemical oxygen demand (COD);
- Total organic carbon (TOC);
- Total suspended solids (TSS);
- Settleable solids (SS);
- Total dissolved solids (TDS);
- Total Kjeldahl nitrogen (TKN);
- Ammonia as nitrogen;
- Nitrate/nitrite as nitrogen;
- Total phosphorus;
- Sulfate;
- Chloride;
- Alkalinity;
- Hexane extractable material (HEM);
- Silica-Gel Treated Hexane Extractable Material (SGT-HEM);
- Volatile organics;
- Semivolatile organics;
- Metals (total and dissolved);
- Hardness (calculated from metals data);
- Cyanide (total and available);
- Organo-phosphorous pesticides;
- Organo-halide pesticides;
- Chlorinated biphenyls congeners (PCBs); and
- Dioxins and furans.

Table 3-4 lists analyte and pollutant parameters along with their analytical method numbers and laboratory measurement techniques. Not all analytes and pollutant parameters will be analyzed at all sampling points. Appendix A of this document lists the individual parameters included in each analytical method. In addition to these analytes, the sampling crew will conduct field measurements at all sampling points, as identified in Table 3-5.

Certain conventional and non-conventional pollutants (Group I and Group II) will be collected in the same sample bottle at some sampling points. "Group I" parameters include TDS, TSS, chloride, sulfate, and alkalinity. "Group II" parameters include TOC, COD, ammonia as nitrogen, nitrate/nitrite as nitrogen, TKN, and total phosphorus. HEM and SGT-HEM will also be collected in the same sample bottle at each sampling point. All other parameters will be collected in individual bottles.

Due to the very short sample holding times for microbiologicals (fecal coliforms, E. coli, and enterococci - 6 hours), BOD_5 (48 hours), and SS (48 hours), an on-board laboratory will be used for analysis of these samples where necessary.

3.3 Sample Collection

Much of the information about the collection of samples for this sampling program is summarized in a series of tables as follows:

- Table 3-1, summarizes the sampling points and analytes to be studied;
- Table 3-2, summarizes the parameters, bottle types, sample volume, and preservation requirements; and
- Table 3-3, sampling locations, flow measurement techniques, and the sample collection type

To characterize the waste streams on board the Island Princess, the samplers will employ varying methods of sample collection depending on the sampling point, pollutant parameters, and the nature of the sample flow and composition at each sampling point. The following subsections provides a detailed description of the sample collection techniques.

Samplers will work in teams of two to ensure that proper sampling techniques are followed and adequate notes are taken at each sampling location. Samplers will wear disposable gloves, tyvek suit, and safety eyewear, and will observe precautions while collecting samples, remaining aware of the potential biohazards present.

Sample containers and bottles will be purchased pre-cleaned and certified and will not require rinsing with sample. Samplers will take care not to touch the insides of bottles or lids/caps during sampling. All samples collected during the sampling episode will be cooled immediately in an ice-water bath to 4°C and then placed into coolers containing bagged ice (or chemical ice) to maintain a sample temperature of 4°C throughout sample storage, shipment (or transfer for on-board analysis), and receipt at the analytical laboratories.

3.3.1 Flow Measurement Approach

Flow measurement data will be collected to support both the treatment system/ final effluent discharge and the graywater characterization sampling efforts. The availability of existing equipment on board the Island Princess, accessibility of piping and tankage, and the capability of removing liquids from transfer lines will determine how flows are measured. Preferred flow measurement techniques, based on the ship visit to the Island Princess are listed in Table 3-3, along with contingencies for obtaining flow data.

For those sampling points with existing flow totalizers, flow data will be recorded on the data sheet provided in Figure 3-2 at a minimum frequency of every six hours. If totalizer data is not available, then a series of instantaneous flow rates will be measured and recorded using an ultrasonic flow meter installed by the samplers. The flow measurements will provide the amount of wastewater processed in periods corresponding to analytical data collected. In the event that neither flow totalizer data nor reliable flow measurement can be made for a specific sampling point, flow rates will be estimated using tank level indicator readings or pump capacities and operating times.

Flow-weighted composite samples will be collected from the galley graywater (SP-1), laundry graywater (SP-2), accommodations graywater (SP-3), treatment system influent (SP-4), and treatment system effluent (SP-6/SP-7) using an automatic sampling machine. The flow meter will signal the automatic sampling machine to collect a sample each time a fixed quantity of water has passed through the wastewater piping.

3.3.2 Graywater Characterization and Discharge Samples

Two types of graywater samples will be collected on board the Island Princess. These include samples collected both as the graywater is generated (graywater characterization samples) and as the graywater is discharged (graywater discharge samples). Graywater characterization samples are collected as the wastewater enters or leaves collection and/or holding tanks in the graywater CHT system. These samples include galley wastewater characterization (SP-1), laundry wastewater characterization (SP-2), and accommodations wastewater characterization (SP-3). Graywater discharge samples are collected as the untreated graywater is discharged at sea outside 12 nm from shore after being stored on board in double-bottom tanks. These samples include galley wastewater discharge (SP-8), laundry wastewater discharge (SP-9), and food pulper wastewater discharge (SP-10). The sampling team will coordinate with the ship's crew to determine when the overboard wastewater discharge samples can be collected. Note that graywater characterization samples will be collected for five consecutive 24-hour sampling periods, while graywater discharge samples will be collected during a single discharge period for each sampling point.

In general, graywater characterization and discharge samples are analyzed for all pollutant parameters. Exceptions include pesticides, which are analyzed for in only galley wastewater characterization samples to characterize possible pesticide sources in food preparation and pest management, and dioxins and furans, which are analyzed for in only laundry wastewater characterization samples to characterize possible generation of dioxins and furans by bleaching operations. PCBs will not be analyzed in any graywater characterization or discharge samples.

In the case of SP-2 and SP-3, sampling crew will install strap-on flow meters on the inlet pipe to the laundry break tank and the outlet pipe from the accommodations wastewater holding tank as described in Table 3-3. The flow meters will signal the automatic sampling machines to collect samples each time fixed quantities of wastewater have passed through wastewater piping. At SP-1, the sampling port is located on the inlet pipe to the galley wastewater holding tank; however, there is no location on the influent pipe that will allow installation of a strap-on flow

meter. Instead, a strap-on meter will be placed on the outlet pipe from the galley wastewater holding tank to collect flow data. Time-weighted samples will be collected from the influent pipe throughout the day using an automatic sampling machine. Overboard discharges of galley, laundry and food pulper wastewater (SP-8, 9 and 10) will be collected only when the ship is pumping out the respective double-bottom tanks. For these samples, the sampling crew will prepare a manual composite sample using equal volumes of wastewater discharged during a single pumping period. The sampling crew will coordinate with the ship's crew to determine the appropriate day and time for collection of these samples.

During each 24-hour sampling period (or discharge period in the case of SP-8 through SP-10), a composite sample of up to 20-liters will be collected in 10-L glass composite sample containers from each graywater sampling point to provide the required sample volume listed in Table 3-2, plus additional volume for laboratory quality control (see Section 3.4.6) and sample spillage. Composite sample containers will be maintained on ice throughout the 24-hours collection period. At the conclusion of each 24-hour sampling period, sample fractions will be poured from the composite sample containers into individual sample bottles using the procedure described in Section 5.1. Bottles will normally be filled to the shoulder of the bottle, leaving a small space for expansion and mixing. Filtering of samples for analysis of dissolved metals will be performed immediately upon receipt at the sampling staging area.

At SP-1, SP-2, and SP-3, up to four grab samples for HEM/SGT-HEM, VOCs, and total and available cyanide will be collected during each 24-hour sampling period. Two grab samples for microbiological analysis will be collected during each 24-hour sampling period for each of these sampling points. An equal number of graywater grab samples will be collected during peak and off-peak generation periods, with sample times determined based on an analysis of collected flow data. Each grab sample for microbiologicals will be analyzed separately at the on-board analytical laboratory. The HEM/SGT-HEM and total and available cyanide samples will be composited on board for a single analysis per sampling point per day, while VOC grab samples will be composited at the laboratory for one analysis per sampling point per day.

At SP-8, SP-9, and SP-10, graywater discharge samples will be collected at predetermined intervals during the pumping period. The volume of sample collected at each interval will be sufficient to prepare a 20-liter composite sample that is representative of the entire pumping period. Up to two grab samples for microbiological analysis, HEM/SGT-HEM, VOCs, and total and available cyanide will be collected at predetermined intervals throughout the pumping period. Microbiologicals grab samples will be analyzed separately at the on-board analytical laboratory; HEM/SGT-HEM and total and available cyanide grab samples will be composited on board for a single analysis per sampling point; and VOC grab samples will be composited at the laboratory for a single analysis per sampling point.

Grab samples will be collected directly into sample fraction bottles when possible. When not possible (e.g., the pump cycle on a graywater collection tank is too quick to allow for collection of all grab samples), VOC samples will be collected into a specially-cleaned 1-L widemouth jar; the 40-ml VOC vials will be subsequently filled with sample from the widemouth jar. All VOC vials will be filled leaving a convex meniscus at the top of the bottle, with no air bubbles present; when the VOC lid is screwed on a small volume of water will be displaced and no air should be present in the bottle. All VOC vials will be pre-preserved with two drops of HCl per vial for biological activity. If field measurements (see Section 3.6) indicate free chlorine is present in the graywater samples at concentrations greater than 0.03 mg/L, then 7 drops (3 granules solid form) of sodium thiosulfate will be added to the sample vials prior to sample collection.

Graywater generation information will be recorded on the graywater generation data sheet provided in Figure 3-2. Information regarding the generation and disposition of waste streams from the photo labs, print shop, dry cleaning, chemical storage, and medical areas will be recorded on the data sheet provided in Figure 3-3. In addition, information regarding the use of pesticides, fungicides, and rodenticides and their potential to enter graywater and blackwater systems will be recorded on the data sheet provided in Figure 3-4. Finally, information regarding the graywater collection, holding, and transfer system will be recorded on the data sheet provided in Figure 3-5.

3.3.3 Graywater and Blackwater Treatment and Final Effluent Samples

Influent to wastewater treatment (SP-4), influent to UV (SP-5), and effluent from wastewater treatment (SP-6/SP-7) samples will be collected from the wastewater treatment system on board the Island Princess. Wastewater treatment influent samples will be analyzed for all pollutant groups except dioxins and furans. Samples collected at the influent to the UV will be analyzed only for microbiologicals. Wastewater treatment effluent samples will be analyzed for all pollutants except pesticides, dioxins and furans, and PCBs.

Sampling crew will install strap-on flow meters at SP-4 and SP-6/SP-7 to signal automatic sampling machines to collect samples each time fixed quantities of wastewater have passed through sampling point piping. Sampling point SP-5 does not require flow measurement since the three microbiological samples collected at this sampling point per 24-hour sampling period are grab samples.

During each 24-hour sampling period, a composite sample and up to three grab samples will be collected at each of the SP-4 and SP-6/SP-7 sampling points using the same procedure as described for graywater samples in Section 3.3.2.

Information regarding the design, operation, and maintenance of the wastewater treatment units will be recorded on the data sheet provided in Figure 3-6. In addition, information regarding the blackwater collection, holding, and transfer system will be recorded on the data sheet provided in Figure 3-5.

3.3.4 Treatment Residue Samples

Samples of the screening solids (SP-11), waste biosludge or desludge (SP-12) and incinerator ash (SP-13) will be collected as one time grab samples during the sampling episode. Treatment residue samples will be collected to represent the actual material that is being either discharged, incinerated, or removed from the vessel. Specifically, screening solids will be collected from the screening solids collection bags that are incinerated. Waste biosludge

samples will be collected from a sampling port on the waste biosludge discharge line during overboard discharge. Finally, incinerator ash samples will be collected from the incinerator ash storage hopper. Screening solids and waste biosludge samples will be analyzed for volatile organics, semivolatile organics, total metals, cyanide, Group I, and Group II. Ash samples will be analyzed for semivolatile organics, total metals, and dioxins and furans only.

3.3.5 Source Water Sample

A source water grab sample will be collected from the ship's potable water system (SP-14) to determine if any of the targeted pollutants are present as background contamination. The source water sample will be analyzed for all of the target parameters, except for HEM/SGT-HEM, pesticides, dioxins and furans, and PCBs.

Information regarding the potable water source and treatment will be recorded on the data sheet provided in Figure 3-7.

3.3.6 Quality Assessment Samples

Duplicate samples are collected as part of the quality assurance program for this sampling episode. Duplicate samples are collected as separate aliquots in the field. One field duplicate per every 10 samples will be collected from sampling point SP-7 and analyzed for all pollutant parameters with the exception of HEM/SGT HEM, pesticides, dioxins and furans, and PCBs. Microbiological duplicate samples will also be collected from SP-7, but at a lesser frequency of one duplicate per 20 samples. (Duplicate samples for dioxins and furans and pesticides were collected on board another cruise vessel to satisfy program QC requirements.) Results of the duplicate analyses will be used to evaluate precision, including variability in sample collection, handling, preparation, and analysis.

One trip blank (SP-15) will be collected and analyzed for volatile organics. The sample will consist of high-performance liquid chromatography (HPLC) water poured into sampling bottles prior to the sampling episode, and shipped to the sampling location. The

trip blank will be shipped back (unopened) to the laboratory along with collected samples. This blank will be used to evaluate possible contamination during shipment and handling of samples.

An automatic sampler equipment blank (SP-16) will be collected and analyzed for semivolatile organics, total metals, and dissolved metals. The equipment blank will consist of HPLC water pumped through a sampler, tubing, and into a composite jar from which a fraction will be poured off. Equipment blanks are used to evaluate possible contamination caused by sampling equipment or by sampling equipment decontamination procedures.

As part of standard laboratory quality control (QC), matrix effects on analytical performance are assessed through the analysis of matrix spikes and laboratory duplicates. The matrix effects will be assessed on the effluent from the wastewater treatment system (SP-7) for all parameters except pesticides, dioxins and furans, and PCBs, and certain classical wet chemistry parameters. (The matrix effects for pesticides were assessed on board another cruise vessel to satisfy program QC requirements. Matrix effects assessment QC samples are not required for isotope dilution procedures (i.e., dioxins and furans by Method 1613 and chlorinated biphenyls congeners by Method 1668) and are not applicable for certain classical wet chemistry parameters.) Matrix effects assessment analyses are conducted on 10 percent of the samples from a given matrix within a sampling event. Consequently, additional sample volume must be collected for these QC analyses. The sampling team will be responsible for collecting, labeling, and shipping the laboratory QC volumes. Laboratory QC volumes will be collected as part of the composite volume and poured into separate sample bottles at the same time as other sample aliquots are prepared.

Laboratory duplicates will be collected as QC samples specifically for microbiologicals and will be collected as a single sample that is split and analyzed as two separate samples. Laboratory duplicates will be collected at a frequency of one per 20 samples at SP-7. Several other microbiological QC procedures will be required prior to sampling, such as positive and negative controls, dilution water blanks, and media and sample bottle sterility checks. The procedures and frequencies for these analyses are outlined in the *Quality Assurance Project Plan for Rulemaking for Large Cruise Ships in Alaska Waters* (1).

3.4 Preservation, Shipping, and Analysis

All samples will be maintained on ice immediately upon collection. Chemical preservatives will be added on board according to method-specified protocols either upon sample collection (i.e., grab samples) or following preparation of sample fractions from the composite sample (see Section 5.1). Table 3-2 lists the analytical fraction type, sample container, sample volume, and preservation method for each type of analysis. Preservation may need to be repeated as chemical reactions progress in samples. The type and amount of preservation used will be recorded on sample preservation log sheets (Figure 3-7). The samples will be packed in ice chests with a sufficient quantity of wet ice to maintain a temperature of 4°C (+/- 2°C) until the Island Princess arrives in port. Exceptions include metals samples which have no temperature requirements.

As the Island Princess docks in Juneau or Ketchikan, Alaska, samples will be prepared for overnight shipment via Federal Express to the laboratories. When the cruise ship docks in Skagway, Alaska, samples will be transported by truck to the airport and shipped via Skagway Air to Juneau, where the samples will be transferred to either an analytical contractor's Juneau laboratory (BOD_5) or to Federal Express for continued shipment to other laboratories. All samples being shipped via Federal Express will be packed in ice chests containing either chemical ice or double-bagged wet ice. All samples shipped via Skagway Air will be packed in ice chests containing chemical ice.

3.5 Field Measurements

Temperature, pH, salinity, conductivity, turbidity, sulfide, and free and total chlorine will be measured and recorded by the sampling crew at each sampling point when each grab sample is collected. A 1-liter glass jar will be filled during collection of each grab sample set for field measurements. Temperature and pH will be measured immediately after the collection of the field measurement aliquot; the other field measurements will be conducted shortly thereafter, either in the field or in the sample staging area. Samplers will follow applicable test kit calibration procedures specified by the manufacturer. Table 3-5 summarizes

the field measurements, how they are to be taken, and the measurement frequency. Test meters instructions and calibration requirements for conductivity, salinity, sulfide, and free and total chlorine field measurements can be found in Appendix B.

Field sampling log sheets (Figure 3-9) will be completed at each sampling point for each 24-hour sampling period. This sheet will record the sampling methodology, names of the samplers, sample collection times, field measurements, and any notes and observations.

3.6 Sample Labeling

Each sample will be coded with a unique sample number and labeled at the time of collection. The self-adhesive label will be completed in indelible ink and will contain the following information:

- Sample number;
- Sampling episode number;
- Sampling point description;
- Sampling point and day;
- Analysis to be performed;
- Sample bottle type;
- Date of sample collection; and
- Preservation used.

Once applied to the sample container, labels will be covered with clear tape to prevent tampering, abrasion, smearing, or loss during transit.

3.7 Chain-of-Custody Record

To maintain a record of sample collection, shipment, and receipt by the laboratory, a Traffic Report will be filled out for each sample fraction at each sampling location. These forms will be completed and used to document sample custody transfer from the field to the laboratory, regardless of whether the analyses are completed on board or shipped to a designated laboratory. At the time of sample shipment, a copy of the traffic report will be sent to Sample Control Center, another copy will be kept by sampling personnel, and the remainder of the

copies will be transmitted with the samples to the analytical laboratories. Figure 3-10 includes an example Traffic Report. When the samples are received by the designated analytical laboratory, a copy of the traffic report will be sent to Sample Control Center to acknowledge receipt and the condition of the samples.

3.8 Quality Assurance/Quality Control

Quality assurance/quality control (QA/QC) procedures applicable to the Island Princess sampling episode are outlined in the *Quality Assurance Project Plan for Rulemaking Support for Large Cruise Ships in Alaska Waters* (1). The QA/QC program for sample collection on board large cruise vessels will include the following:

- Documentation of sample custody using Traffic Reports;
- Collection of field duplicate samples;
- Collection of trip blank(s) for VOC analyses;
- Collection of equipment blank(s) for semivolatile organics and total and dissolved metals analyses;
- Collection of laboratory duplicate samples for microbiologicals; and
- Analysis of positive and negative controls, dilution water blanks, and sample bottle and media sterility checks for microbiologicals prior to use in sampling.

3.9 Sample Splitting

The Island Princess has the option to collect duplicate samples (split samples) at each of the sampling points. If this option is exercised, the owner of the Island Princess or their representative will supply all of the personnel, equipment, glassware, and reagents required to collect the split samples and to coordinate the analysis of samples. Princess Cruises representatives have not indicated a desire to collect split samples.

Table 3-1

Samples for Collection On Board Princess Cruises Island Princess

Sampling Point Number	Sampling Point Name	Micros	Vol	Semivol	Total Metals	Dissolved Metals (a)	Cyanide (b)	HEM/ SGT-HEM	BOD	Solids	Group I	Group II	Pest (c)	D/F	PCB
SP-1	Galley Wastewater Characterization	10 (d)	5	5	5	5	5	5	5	5	5	5	1		
SP-2	Laundry Wastewater Characterization	10 (d)	5	5	5	5	5	5	5	5	5	5		1	
SP-3	Accommodations Wastewater Characterization	10 (d)	5	5	5	5	5	5	5	5	5	5			
SP-4	Influent to Wastewater Treatment System	15 (e)	5	5	5	5	5	5	5	5	5	5	1		1
SP-5	Influent to UV Disinfection	15 (e)													
SP-6	Effluent from Wastewater Treatment System	15 (e)	5	5	5	5	5	5+6QC	5	5	5	5			
SP-7	Effluent from Wastewater Treatment System (Duplicate)	4 +4QC	3+6QC	3+6QC	3+6QC	4+6QC	3+6QC		3	3	3+6QC	3+6QC			
SP-8	Galley Wastewater Discharge	2 (f)	1	1	1	1	1	1	1	1	1	1			
SP-9	Laundry Wastewater Discharge	2 (f)	1	1	1	1	1	1	1	1	1	1			
SP-10	Food Pulper Wastewater Discharge	2 (f)	1	1	1	1	1	1	1	1	1	1			
SP-11	Screening Solids		1	1	1		1				1	1			
SP-12	Waste Biosludge (Desludge) Discharge		1	1	1		1				1	1			
SP-13	Incinerator Ash			1	1									1	
SP-14	Source Water	1	1	1	1	1	1		1	1	1	1			

Table 3-1 (Continued)

Sampling Point Number	Sampling Point Name	Micros	Vol	Semivol	Total Metals	Dissolved Metals (a)	Cyanide (b)	HEM/ SGT-HEM	BOD	Solids	Group I	Group II	Pest (c)	D/F	PCB
SP-15	Trip Blank		1												
SP-16	Equipment Blank			1	1	1									
Total Number of Samples (Excluding QC)		**86**	**35**	**36**	**36**	**33**	**34**	**28**	**34**	**34**	**34**	**34**	**2**	**2**	**1**

(a) Dissolved metals samples will be analyzed for filterable waste streams only.
(b) Cyanide includes both total and available cyanide.
(c) Pesticides includes both organo-phosphorous and organo-halide pesticides.
(d) Two grab samples per day for five days.
(e) Three grab samples per day for five days.
(f) Up to two grab samples for one discharge period.

Micros - Fecal coliforms, E. coli, and enterococci.
Vol - Volatile organics.
Semivol - Semivolatile organics.
HEM/SGT-HEM - Hexane extractable material and silica gel treated hexane extractable material.
BOD - Biochemical oxygen demand.
Solids - Settleable solids.
Group I - Total suspended solids (TSS), total dissolved solids (TDS), sulfate, chloride, and alkalinity.
Group II - Total organic carbon (TOC), chemical oxygen demand (COD), ammonia as nitrogen, nitrate/nitrite as nitrogen, total Kjeldahl nitrogen (TKN), and total phosphorus.
QC - With the exception of microbiologicals, QC samples include sample volume for both a matrix spike and a matrix spike duplicate (i.e., two samples). For microbiologicals, QC samples refer to confirmation analyses performed on 10% of the samples
Pest - Organo-phosphorous and organo-halide pesticides
D/F - Dioxins and furans
PCB - Chlorinated biphenyls congeners

Table 3-2

Summary of Sample Container and Preservation Requirements

Parameter	Sample Container	On-Board Preservation (d)
Fecal Coliforms	120 ml sterile bottle (c)	100 mg/L $Na_2S_2O_3$, 4°C
E. coli	120 ml sterile bottle (c)	100 mg/L $Na_2S_2O_3$, 4°C
Enterococci	120 ml sterile bottle (c)	100 mg/L $Na_2S_2O_3$, 4°C
Volatile Organics	Two 40-mL glass vials (c)	3 granules (10 mg) or 7 drops $Na_2S_2O_3$ per vial, 2 drops HCl per vial, 4°C
Semivolatile Organics	Two 1-L amber glass bottles	80 mg/L (8 mL/L) $Na_2S_2O_3$, 4°C
Total Metals	1-L plastic bottle	None required
Dissolved Metals	1-L plastic bottle	0.45 um filtration
HEM/SGT-HEM	1-L wide mouth glass jar (c)	HCl or H_2SO_4 to pH <2, 4°C
Cyanide, Total	500-mL plastic bottle	Ascorbic acid (0.6 g/L) to remove Cl_2, NaOH to pH >12, 4°C. If sulfide is present, add lead carbonate to precipitate sulfide (e.g., 44 mg/500 mL for sulfide concentration of 1 mg/L), followed by 0.45 µm filtration and raising pH
Cyanide, Available	500-mL amber glass bottle	Ascorbic acid (0.6 g/L) to remove Cl_2, NaOH to pH >12, 4°C. If sulfide is present, add lead carbonate to precipitate sulfide (e.g., 44 mg/500 mL for sulfide concentration of 1 mg/L), followed by 0.45 µm filtration and raising pH
Biochemical Oxygen Demand (5-day)	1-L plastic bottle	4°C
Settleable Solids	1-L plastic bottle	4°C
Group I (a)	1-L plastic bottle	4°C
Group II (b)	1-L and 500 mL glass bottles	H_2SO_4 to pH <2, 4°C
Dioxins and Furans	Two 1-L amber glass bottles	If pH>9, H_2SO_4 to pH 7-9 80 mg/L (8 mL/L) $Na_2S_2O_3$, 4°C
Organo-Phosphorus Pesticides	Two 1-L amber glass bottles	NaOH or H_2SO_4 to pH 5-9 80 mg/L (8 mL/L) $Na_2S_2O_3$, 4°C

Table 3-2 (Continued)

Parameter	Sample Container	On-Board Preservation (d)
Organo-Halide Pesticides	Two 1-L amber glass bottles	NaOH or H_2SO_4 to pH 5-9 80 mg/L (8 mL/L) $Na_2S_2O_3$, 4ºC
Chlorinated Biphenyls Congeners	Two 1-L amber glass bottles	H_2SO_4 to pH 2-3 80 mg/L (8 mL/L) $Na_2S_2O_3$, 4ºC

(a) Group I includes total dissolved solids (TDS), total suspended solids (TSS), sulfate, chloride, and alkalinity.
(b) Group II includes total organic carbon (TOC), chemical oxygen demand (COD), ammonia as nitrogen, nitrate/nitrite as nitrogen, total Kjeldahl nitrogen (TKN), and total phosphorus.
(c) Grab samples for microbiologicals, volatile organics, HEM/SGT-HEM analysis will be collected separately for each composite aliquot.
(d) Addition of sodium thiosulfate and ascorbic acid is required only if residual chlorine is present in the sample at a concentration greater than 0.03 mg/L.

Table 3-3

Summary of Sampling Locations, Flow Measurement Techniques, and Sample Collection Types - Princess Cruises Island Princess

Sampling Point Number	Sampling Point Description	Sampling Location	Flow Measurement Technique	Sample Collection Type
SP-1	Galley Wastewater Characterization	Inlet pipe to galley wastewater holding tank.	To install strap-on flow meter on outlet pipe from holding tank (assuming pipe remains full and is not subject to backflow from other graywater sources). Alternative is to use holding tank level data collected by the ship. Please provide instantaneous tank level data recorded in the ship's control system for a typical multi-day cruise.	Need to install "T" sample tap on inlet pipe to galley holding tank. Composite samples collected from one side of the sample tap, and grab samples collected from the other side of the sample tap.
SP-2	Laundry Wastewater Characterization	Sample tap on the side of the laundry wastewater break tank.	To install strap-on flow meter on length of pipe leading into the laundry water break tank. Alternative is to use production data on number of laundry loads per day, time of day and volume of each load.	Need to install "T" sample tap on existing tap located on the side of the break tank. Composite samples collected from one side of the sample tap, and grab samples collected from the other side of the sample tap.
SP-3	Accommodations Wastewater Characterization	Sample tap on transfer line from the accommodations wastewater holding tank to the wastewater treatment system buffer tank.	To install strap-on flow meter on the accommodations wastewater transfer line.	Need to install "T" sample tap on existing sample tap on pipe leading to accommodations holding tank. Composite samples collected from one side of the sample tap, and grab samples collected from the other side of the sample tap.

Table 3-3 (Continued)

Sampling Point Number	Sampling Point Description	Sampling Location	Flow Measurement Technique	Sample Collection Type
SP-4	Influent to wastewater treatment	Sample tap on combined graywater/blackwater line leading to the wastewater treatment system.	To install strap-on flow meter on pipe beneath the existing floor deck.	Install "T" sample tap on existing sample tap on pipe after blackwater and graywater mix but before entering the wastewater treatment system. Composite samples collected from one side of the sample tap, and grab samples collected from the other side of the sample tap.
SP-5	Influent to UV Disinfection	Inlet pipe to UV disinfection.	None required.	Need to install new sample tap at inlet to UV disinfection for grab samples for microbiologicals analysis only.
SP-6/SP-7	Effluent from Wastewater Treatment System	Effluent pipe from UV disinfection.	To install strap-on flow meter on length of pipe leading to the ship's hull. Existing flow meter on effluent discharge pipe. Use existing flow meter to verify strap-on meter results. If data from Hamworthy control system can be downloaded to disk, please provide Hamworthy system data (pump operation, instantaneous tank levels, etc.) collected for a typical multi-day cruise.	Need to install "T" sample tap on existing sample tap on effluent being discharged. Composite samples collected from one side of the sample tap, and grab samples collected from the other side of the sample tap.

Table 3-3 (Continued)

Sampling Point Number	Sampling Point Description	Sampling Location	Flow Measurement Technique	Sample Collection Type
SP-8	Galley Wastewater Discharge	Galley wastewater overboard discharge pipe.	Not applicable. Will coordinate with ship wastewater treatment and operations staff to determine when tanks will be discharged overboard. Start and stop times and pumping rates obtained from the control room will be used to determine flow volume.	Use existing sample on the graywater overboard pipe to collect timed composite sample during pump-out of holding tanks when ship is greater than 12 nm from shore.
SP-9	Laundry Wastewater Discharge	Laundry wastewater overboard discharge pipe.	Not applicable Will coordinate with ship wastewater treatment and operations staff to determine when tanks will be discharged overboard. Start and stop times and pumping rates obtained from the control room will be used to determine flow volume.	Use existing sample tap on the graywater overboard pipe to collect timed composite sample during pump-out of holding tanks when ship is greater than 12 nm from shore.
S-10	Food Pulper Wastewater Discharge	Food pulper wastewater overboard discharge pipe.	Not applicable. Will coordinate with ship wastewater treatment and operations staff to determine when tanks will be discharged overboard. Start and stop times and pumping rates obtained from the control room will be used to determine flow volume.	Use existing sample tap on the graywater overboard pipe to collect timed composite sample during pump-out of holding tanks when ship is greater than 12 nm from shore.
SP-11	Screening Solids	Screening solids collection bags.	None required.	Manual composite sample collected from several screening solids collection bags.

Table 3-3 (Continued)

Sampling Point Number	Sampling Point Description	Sampling Location	Flow Measurement Technique	Sample Collection Type
SP-12	Waste Biosludge	Waste biosolids overboard discharge pipe.	None required Will coordinate with the ship's crew to determine when waste biosludge will be discharged overboard.	Single grab sample.
SP-13	Incinerator Ash	Incinerator ash holding bin.	Not applicable.	Single grab sample.
SP-14	Source Water	Ship's potable water system following any chlorination, end of distribution.	None required. Will request information regarding water bunkering during sampling episode.	Single grab sample.
SP-15	Trip Blank	Sampling room	None required	Single grab sample.
SP-16	Equipment Blank	Sample tap and sampling equipment (i.e., automatic sampling machine).	Not applicable.	HPLC water pumped through representative sample tap and sampling equipment. Single grab sample.

Table 3-4

Standard Analytical Methods and Procedures for Samples Collected On Board the Island Princess

Method No.	Title	Method Type
SM 9222D	Fecal Coliforms	Membrane filtration
SM 9223B	Escherichia Coli (E. coli)	Multiple tube/multiple well
ASTM D6503-99	Enterococci	Multiple tube/multiple well
EPA 160.2	Residue, Non-filterable (TSS)	Gravimetric
EPA 160.5	Settleable Matter (SS)	Volumetric
EPA 160.1	Total Dissolved Solids (TDS)	Gravimetric
SM 2320 B	Alkalinity	Titrimetric
EPA 375.1, 375.3, or 375.4	Sulfate	Colorimetric, Gravimetric, or Turbidimetric
EPA 325.2 or 325.3	Chloride	Colorimetric or Titrimetric
EPA 351.2, 351.3, or 351.4	Total Kjeldahl Nitrogen (TKN)	Colorimetric, Titrimetric, or Potentiometric
EPA 350.1, 350.2, or 350.3	Ammonia as Nitrogen	Colorimetric, Titrimetric, or Potentiometric
EPA 353.1, 353.2, or 353.3	Nitrate/Nitrite as Nitrogen	Colorimetric or Spectrophotometric
EPA 365.2 or 365.4	Total Phosphorus	Colorimetric
EPA 405.1	Biochemical Oxygen Demand (BOD_5)	Titrimetric
EPA 410.1, 410.2, 410.3, or 410.4	Chemical Oxygen Demand (COD)	Titrimetric or Colorimetric
EPA 415.1	Total Organic Carbon (TOC)	Combustion or Oxidation
EPA 335.2	Total Cyanide	Titrimetric or Spectrophotometric
EPA 1677	Available Cyanide	Flow Injection, Ligand Exchange, Amperometry
EPA 1664A	Hexane Extractable Material and Silica Gel Treated Hexane Extractable Material (HEM/SGT-HEM)	Gravimetric

Table 3-4 (Continued)

Method No.	Title	Method Type
EPA 200.7, 200.8, 200.9, and 245.7 (Mercury only)	Metals by Inductively Coupled Plasma Atomic Emission Spectrometry, Mass Spectrometry, and Atomic Absorption Spectroscopy	GFAA, ICP, ICP/MS and CVAA
SM 2340B	Hardness by Calculation	Calculation from metals results
EPA 624	Volatile Organic Compounds by GC/MS	GC/MS
EPA 625	Semivolatile Organic Compounds by GC/MS	GC/MS
EPA 1613B	Dioxins and Furans by Isotope Dilution HRGC/MS	HRGC/MS
EPA 1657	Organo-Phosphorous Pesticides	GC-FPD
EPA 1656	Organo-Halide Pesticides	GC-HSD
EPA 1668A	Chlorinated Biphenyls Congeners by Isotope Dilution HRGC/MS	HRGC/MS

Table 3-5

Sampling Point Field Measurements

Field Measurements	Method	Frequency
Temperature	Thermometer	Each time grab samples (e.g., VOCs) are collected
Turbidity	Turbidity meter	Each time grab samples (e.g., VOCs) are collected
Salinity	Salinity meter	Each time grab samples (e.g., VOCs) are collected
Conductivity	Conductivity meter	Each time grab samples (e.g., VOCs) are collected
Sulfide	Colorimetric test kit	Each time grab samples (e.g., VOCs) are collected.
pH	Four color indicator strip	Each time grab samples (e.g., VOCs) are collected
Hardness	Titrimetric test kit	Each time grab samples (e.g., VOCs) are collected
Free and Total Chlorine	Colorimetric test kit	Each time grab samples (e.g., VOCs) are collected

Flow Meter Measurement Data Sheet

Vessel:						**Discharge:**					
Meter Information											
Meter Type:		Serial #:				Calibration:					
Install Location:						Date:	Time:		Gallons:		
De-Install Information:						Date:	Time:		Gallons:		
Day/ Date	**Time**	**Gallons**		**V_s**	**Alarms**	**Day/Date**	**Time**	**Gallons**		**V_s**	**Alarms**
		Totalizer	**Daily**					**Totalizer**	**Daily**		

Figure 3-1. Flow Meter Measurement Data Sheet

GRAYWATER GENERATION DATA SHEET

Vessel:
Date:
Recorded By:

Vessel Point(s) of Contact:

Number of Passengers and Number of Crew Actually on Board:

Unusual Maintenance or Operational Activities Described By Vessel Point(s) of Contact:

Number and Time of Meals Served by Day (include passengers and crew) :

Breakfast:
Lunch:
Dinner:
Other Meals:

Were Dishwashers Operated? (Circle one) Yes / No

If yes, what weight, number of pieces, or number of loads were washed?
What times were dishes washed by day?
Estimated volume of water per load:
Detergent name (obtain MSDS if available):

Was Laundry Washed? (Circle one) Yes / No

If yes, number of hours per day laundry was operated:
Weight, number of pieces, or number of loads washed per day:
What times were dishes washed by day?
Estimated volume of water per load:
Are there floor drains in the laundry? What and where do they drain?

Detergent and other chemicals names (obtain MSDS if available):

Other Sources (e.g., small pantries, steward stations, cleaning stations):
Times these sources are generated:
Estimated volume per source:

Figure 3-2. Graywater Generation Data Sheet

SPECIAL WASTES GENERATION AND DISPOSITION DATA SHEET

Vessel:
Date:
Recorded by:

Photo Lab(s) On Board: yes or no (circle one)
Print Shop(s) On Board: yes or no (circle one)
Dry Cleaning On Board: yes or no (circle one)
Chemical Storage Area On Board: yes or no (circle one)
Medical Infirmary On Board: yes or no (circle one)
Garbage Room On Board: yes or no (circle one)

For each of the above areas, describe the following:

Waste handling and disposition:

Any waste treatment (e.g., silver recovery in photo lab)? What is the disposition of treated waste and any residuals (e.g., silver recovery filter and filtrate)?

Inspect area for floor drains. Are drains blocked or open? Where do the floor drains lead? Describe any streams that enter the floor drains.

Inspect area for sinks. Is sink drain blocked or open? What is the disposition of sink water? What streams enter or potentially the sink (e.g., hand washing, rinse/clean equipment, prepare chemical solutions)?

Inspect area for chemical storage. Are chemicals stored over a sump or other secondary containment?

Figure 3-3. Special Wastes Generation and Disposition Data Sheet

PESTICIDE, FUNGICIDE, AND RODENTICIDE USE DATA SHEET

Vessel:
Date:
Recorded by:

Pesticides Used On Board: yes or no (circle one)

Pesticide Name	Target Pest(s)	Amount Used/yr	MSDS Obtained (yes/no)
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

List Locations Where Pesticides are Normally Applied and Stored On Board and Dates Applied:

Potential to Enter Graywater/Blackwater Systems (e.g., application, spills, floor drains)?

Person(s) Responsible for Pesticide Application:

Fungicides Used On Board: yes or no (circle one)

Fungicide Name	Target Fungi	Amount Used/yr	MSDS Obtained (yes/no)
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

List Locations Where Fungicides are Normally Applied and Stored On Board and Dates Applied:

Potential to Enter Graywater/Blackwater Systems (e.g., application, spills, floor drains)?

Person(s) Responsible for Fungicide Application:

Rodenticides Used On Board: yes or no (circle one)

Rodenticide Name	Target Rodent	Amount Used/yr	MSDS Obtained (yes/no)
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

List Locations Where Rodenticides are Normally Applied and Stored On Board and Dates Applied:

Potential to Enter Graywater/Blackwater Systems (e.g., application, spills, floor drains)?

Person(s) Responsible for Rodenticide Application:

Figure 3-4. Pesticide, Fungicide, and Rodenticide Use Data Sheet

COLLECTION, HOLDING, AND TRANSFER (CHT) TANK DATA SHEET

Vessel:
Date:
Recorded by:

Tank Number or Identification:

Wastewater Source(s):

Tank Volume:_____ m^3 or gallons

Does the Tank Have Vacuum: yes or no (circle one):

Vacuum: ____ mm Hg

Tank Material of Construction:

Is this a double bottom tank: yes or no (circle one)?

Normal Operating Volume: _____ m^3

Automated Tank Gauging and Discharge System: yes or no (circle one)

Discharge Type: batch or continuous (circle one)

Totalizer or Flow Meter on Discharge Line: yes or no (circle one)

Discharge Flow Rate: _____ m^3/min or m^3/day

Wastewater Destination After Leaving the Tank:

Approximate Diameter of Discharge Line: _____ inches

Screens or Filters Present on Either Influent or Discharge Lines (describe):

Chemical Additions to Tank:

Chemical Name	Purpose	Amount	MSDS (yes/no)
_____	_____	_____ kg/day	_____
_____	_____	_____ kg/day	_____
_____	_____	_____ kg/day	_____

Is sludge removed from this tank (describe frequency, amount, destination)?:

Figure 3-5. Collection, Holding, and Transfer (CHT) Tank Data Sheet

WASTEWATER TREATMENT UNIT DATA SHEET

Vessel:
Date:
Recorded by:

Description of Treatment Unit:

Manufacturer:

Model:

Design Drawings Obtained: yes or no (circle one)

Design Capacity: _____ gpd or gpm (circle one)

Typical Operating Flow Rate: _____ gpd or gpm (circle one)

Operational period: _____ hours

Chemical Additions:

Chemical	Amount	Units	MSDS Obtained
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Electrical Requirements:

Volts: _____ Amps: _____ Horsepower: _____

Sludge Generation: yes or no (circle one)
If yes, describe frequency, amount, and destination:

Was maintenance performed on treatment unit: yes or no (circle one)
If maintenance was performed, estimate labor: _____ hours

List operating parameters recorded (e.g., flow, temperature, pressure, pH), typical values, and range for this unit. Record or obtain copy or printout of logs for the duration of the sampling episode.

Figure 3-6. Wastewater Treatment Unit Data Sheet

SOURCE WATER DATA SHEET

Vessel:
Date:
Recorded by:

Is Potable Water Generated On Board the Vessel: yes or no (circle one)

Describe the On-Board Potable Water Treatment and Disinfection Method:

Port (City) Where Source Water is Obtained if Not Generated On Board: _____

Treatment Method for Source Water Obtained in Port:

Disinfection Method for Source Water Obtained in Port:

Fluoride Added to Water Obtained in Port: yes or no (circle one)

Additional Disinfection Performed On Water Obtained in Port: yes or no (circle one)

Describe Additional On-Board Disinfection Method:

Description of Source Water Sample Collection Point On Board Cruse Ship:

Figure 3-7. Source Water Data Sheet

Sampling Episode _____

Preservation Chemicals - List Strength of Solution from Bottle							
HCl _____ Ascorbic Acid_____ H_2SO_4 _____ NaOH _____ $Na_2S_2O_3$ _____ Lead Carbonate_____							
Sample Number	**Analysis**	**Date**	**Name**	**Chemical**	**Initial pH**	**Final pH**	**Number of Drops**

Figure 3-8. Sample Preservation Log Sheet

Date: _____

Sampling Episode: _____

Sampling Point: _____

Sample Numbers: _____

Manual Composite ☐ Grab ☐

Automatic Composite ☐

Time of Compositing period, if applicable:

Start Time _____ ☐ AM ☐ PM

End Time _____ ☐ AM ☐ PM

Equipment Used: _____

Samplers' Names: _____

Aliquot	Time	Temp °C	Turbidity (NTU)	pH	Sulfide (mg/L)	Salinity (ppt)	Conductivity (µS/cm)	Free Chlorine (mg/L)	Total Chlorine (mg/L)
1									
2									
3									
4									
5									
6									
Composite									

Notes: (include observations of odor and color of each aliquot, take pictures if necessary)

_____

_____

_____

_____

_____

_____

Figure 3-9. Field Sampling Log Sheet

EPA

United States
Environmental Protection Agency
Washington, DC 20460

EPISODE NO:

RANGE OF SAMPLE NOS:

TRAFFIC REPORT
USEPA ENGINEERING AND ANALYSIS DIVISION
SAMPLE CONTROL CENTER

Return completed form to:
P.O. BOX 1407
ALEXANDRIA, VA 22313
(703) 519-1140

INDUSTRIAL FIRM SAMPLED	SHIPPING & INFORMATION
NAME:	SHIP TO:
CITY:	ATTN:
STATE:	CARRIER:
INDUSTRIAL CATEGORY:	AIRBILL:
	DATE SHIPPED:
CONFIDENTIAL (Y/N):	SAMPLING OFFICE/SAMPLER:

SAMPLE POINT DESCRIPTION											SAMPLE ANALYSES						
SAMPLE NUMBER	SOURCE WATER (city, river, well)	IN LINE PROCESS	UNREATED EFFLUENT (raw wastewater)	TREATED EFFLUENT	OTHER (specify)	ADDITIONAL SAMPLE DESCRIPTION	PH LEVEL	PRESERVED (Y/N)	G=GRAB / C=COMPOSITE	SAMPLE COLLECTION TIME / DATE							

Comments:

EPA Form 7500-50 (Rev 6-94) Previous editions are obselete.
Page 1: Sample Control Center Copy
Copy of Page 1: Sampler Copy

Page 2: Lab Copy
Copy of Page 2: Lab Copy for return to Sample Control Center

Figure 3-10. Example Traffic Report

4.0 SAMPLING ACTIVITIES

This section discusses the sampling team organization, ship visit preparation, and sampling activities.

4.1 Sampling Team Organization

The sampling crew will consist of Donald Anderson from EPA, a crew chief (Mark Briggs), eight crew members, and two laboratory analytical contractors who will be responsible for all on-board laboratory analyses. The crew chief will be responsible for all sample collection, preservation, and shipping activities on board. After completion of the sampling episode, the analytical results from each laboratory will be collated. This information will be summarized and transmitted, along with a trip report, to EPA. After EPA review, the report will be forwarded to the cruise line for their review.

4.2 Pre-Visit Preparation

As a part of preparing the team for the sampling event on board the Island Princess, the crew chief will distribute the Princess Cruises Island Princess Sampling and Analysis Plan to each team member and make sure they are completely familiar with the sampling plan and the health and safety requirements specific to the Island Princess found in Section 6.0. Cruise vessel personnel shall also be given copies of this sampling and analysis plan prior to the start of sampling.

The crew chief will coordinate the procurement and shipment of all necessary sampling and health and safety equipment.

Upon arrival on Saturday August 21, two members of the sampling crew will attend a health and safety briefing lead by the ship's Environmental Officer and begin to set up sampling equipment. On Tuesday August 24, laboratory contractor personnel will load and set up the on-board laboratory. On Saturday August 28, seven additional sampling crew members,

the two laboratory analysts, and Donald Anderson from EPA will board the ship. These individuals will also receive a health and safety briefing and then will begin sampling. The crew will tour the sampling points and discuss the detailed health and safety considerations (e.g., the hazards associated with each sampling point, related personal protective equipment, and evacuation requirements). If conditions exist which are different than those anticipated, modifications will be made in consultation with EPA and Island Princess personnel. If necessary, additional equipment and glassware will be obtained. A detailed schedule of the activities for the sampling episode is provided in Appendix C.

4.3 Field Sampling Activities

On board the Island Princess, the two members of the crew designated to set up sampling equipment, will meet with cruise vessel personnel to determine whether samples can be collected at each of the planned sampling points. Upon making the decision to collect samples, the descriptions of the proposed sampling points will be updated, if necessary, in consultation with EPA and cruise vessel personnel. If necessary, additional equipment and glassware will be obtained. The revised description shall include:

- A sample point description and collection procedure for each sample point;
- A list of the sample fractions to be collected at each point:
- A list of potential physical hazards (such as pH, temperature, and potentially hazardous equipment);
- A list of potential chemical hazards associated with each sample point; and
- A list of proposed health and safety procedures.

Prior to sampling, the crew chief will also notify the Health and Safety Coordinator (Matt Stein) of any revised sampling activity descriptions along with recommended revisions to the proposed health and safety procedures. Together, they will review the proposed health and safety procedures, incorporate specific changes indicated by the Health and Safety

Coordinator, and gain approval for sampling from the Health and Safety Coordinator before proceeding with sampling activities.

Sample fractions collected will be labeled, sealed, and placed in coolers for shipment to the laboratory once the cruise vessel docks. The Traffic Report forms will be completed and placed in plastic sleeves inside the coolers. The coolers will then be transported to an analytical contractor's Juneau laboratory or for continued shipment via Federal Express office to the selected laboratories. Because of the very short sample holding times for microbiologicals, BOD_5 (note that not all BOD_5 samples will be analyzed on board), and SS, an on-board laboratory will be used for analysis of these samples. At the conclusion of the sampling episode, the sampling equipment will be prepared for return shipping.

The crew chief will confirm the laboratories to be used for analysis and communicate the number of samples being collected. The crew chief will also contact Sample Control Center after shipping samples to communicate shipping information.

4.4 Logistics

This section of the sampling plan summarizes cruise vessel contacts, analytical laboratory contacts and addresses, and sampling team personnel and support functions.

Cruise Ship Contacts

George Wright
Vice President Environmental Compliance
Princess Cruises
(661) 753-2747

Pero Batinic
Environmental Officer
Island Princess
ipdevof1@princesscruises.com

Bruno Padovan
Staff Engineer
Island Princess
iptseof1@princesscruises.com

EPA Contacts

Don Anderson
Engineering and Analysis Division
U.S. Environmental Protection Agency
Ariel Rios Building
1200 Pennsylvania Avenue, NW
Mail Code 4303T
Washington, D.C. 20460
(202) 566-1021

Elizabeth Kim
Office of Wetlands, Oceans, and Watersheds
U.S. Environmental Protection Agency
Ariel Rios Building
1200 Pennsylvania Avenue, NW
Mail Code 4504T
Washington, D.C. 20460
(202) 566-1270

Sample Control Center

Erin Salo
Sample Control Center
6101 Stevenson Ave.
Fifth Floor
Alexandria, VA 22304
(703) 461-2350
(703) 461-8056 (fax)

Analytical Laboratories

To be determined.

Eastern Research Group Contacts

Debbie Falatko (Project Manager) - Chemical Engineer
Jennifer Biancuzzo - Chemical Engineer
Kim Porter - Environmental Scientist
Mark Briggs - Environmental Engineer
Eastern Research Group, Inc.
14555 Avion Parkway, Suite 200
Chantilly, VA 20151
(703) 633-1600

Freight Forwarders

Federal Express
9203 Bonnett Way
Juneau, Alaska 99801
General Information (800) 238-5355
Weekday Hours: 7:30 am to 5 pm
Last Express Drop-off: 8:30 am, no Sat pickup

Federal Express (Drop Off):
Mail Boxes Etc.
125 Main Street
Ketchikan, AK 99901
(907) 247-2705
(907) 247-2707 (fax)
Drop-off by 9:30 a.m., Monday - Friday

Alaska Airlines Goldstreak Air Cargo
General Information (800) 634-7113

Skagway Air
General Information (907) 983-2218

Courier Services

To be determined.

5.0 SAMPLE SHIPMENT

All sample packages will be labeled with standard address labels. All samples will be tracked using Traffic Report forms. Custody will be maintained by the crew chief from sample collection through shipment (or transfer to analytical contractor's on-board laboratory).

All samples will be packaged and shipped in accordance with DOT or IATA regulations. The general IATA packaging requirements for air shipment are as follows:

- "Inner packaging must be so packed, secured or cushioned as to prevent their breakage or leakage and so as to control their movement within the outer packaging during normal conditions of transport. Cushioning material must not react dangerously with the contents of the inner packaging. Any leakage of the contents must not substantially impair the protective properties of the cushioning material. Unless otherwise provided in this paragraph or in the Packing Instructions, liquids in Classes, 3, 4, 5, 6, or 8 of Packing Groups I or II in glass or earthenware inner packaging, must be packaged using material capable of absorbing the liquid. Absorbent material must not react dangerously with the liquid. Absorbent material is not required...." (IATA Dangerous Goods Regulations, 5.0.16).

- "When filling receptacles for liquids, sufficient ullage (outage) must be left to ensure that neither leakage nor permanent distortion of the receptacle will occur as a result of an expansion of the liquid caused by temperatures likely to prevail during transport. Liquids must not completely fill a receptacle at a temperature of 55°C (130°F)." (IATA Dangerous Goods Regulations, 5.0.12).

The packing and labeling procedures in the following subsections may be used for non-hazardous samples. Hazardous samples will be identified based on consultation with the hazardous shipments contact, and appropriate hazardous shipping procedures will be followed. Based on process considerations, samples collected on board large cruise vessels will not be classified as IATA dangerous goods.

5.1 Sample Set Preparation

Samples are collected as a series of "fractions," or bottles designated for particular analyses requiring the same preservation. The comprehensive water sample set consists of sample fractions for all pollutants listed in Section 3.2 collected over a 24-hour period.

At the end of the compositing period, sampling points SP-1, SP-2, SP-3, SP-4, SP-6/SP-7, SP-8, SP-9 and SP-10 will include approximately 20 liters of sample collected in two 10-L composite sample containers. The content of the composite sample containers will be thoroughly mixed using a third, clean composite sample container. To perform this mixing, half of each composite sample container will be poured into the third jar then the two half-full composite sample containers will be combined into one. Repeat this process two more times to ensure proper mixing. Sample fractions will be poured from the composite sample containers into individual sample bottles using the following procedure.

- Swirl and shake the composite sample container to re-suspend settled solids;
- Fill each sample bottle to about ½ of its empty volume;
- Mix the remaining volume in the composite sample container; and
- In reverse order, fill the sample bottles.

Cyanide samples will be composited separately from the other pollutant parameters. Up to four grab samples during each 24-hour sampling period will be collected for cyanide analyses in separate 1-L amber glass jars and preserved according to Table 3-2. After the sampling period ends, the four one liter grab samples will be composited by mixing in a sampling point-specific composite jar and then poured into separate bottles for analysis of total and available cyanide.

HEM/SGT-HEM samples will be composited during sample collection by collecting the individual grab samples directly into the sample containers. For example, at

sampling points where a total of four grab samples will be collected during a 24-hour sampling period, approximately one-fourth (250 mL) of the sample containers will be filled when each of the four grab samples are collected, resulting in full sample containers at the end of each sampling period.

5.2 Sample Packing

All samples from the Island Princess will be packed according to the following guidelines:

1. Tighten the lid on each filled sample bottle, being careful not to overtighten the lid. Clean the sample bottle with a cloth rag or paper towel.

2. Label each sample bottle. (Sample labeling is discussed in Section 3.6 of this document.) Cover the label with clear tape to protect this information.

3. Wrap each glass sample bottle with “bubble wrap”. The bubble wrap must fit snugly and completely cover the sample bottle. Each "bubble-wrapped" container and plastic container must then be enclosed in an individual sealable plastic freezer bag.

4. Place two garbage bags inside each other in a cooler.

5. Place sample bottles in garbage bags in the cooler with proper end up and close bag with twist-tie.

6. Arrange sealed plastic freezer bags filled with ice (or chemical ice) on top of the sample bottles (if ice is to be used as a preservative). Put at least 4 x ½ gallons of ice (4 x 2.5 lbs of ice) in each large cooler and 2 x ½ gallons of ice (2 x 2.5 lbs of ice) in each small cooler. More ice should be used when ambient temperatures are very high. The ice should be placed inside the second garbage bag. Close the second garbage bag with a twist-tie. Any additional free space should be filled with packing material so that the sample containers will not shift during shipment.

7. Seal the Traffic Report form in a plastic sleeve and tape securely to the inside of the cooler lid.

8. Place a "Return to ..." label on the inside of the cooler lid.

9. Close cooler.

10. Make several wraps with strapping tape around the cooler perpendicular to the seal to ensure that the lid will remain closed if the latch is accidentally released or damaged.

11. Tape the cooler drain plug so it will not open.

12. Place a completed address label on the lid of the cooler including name, address, and telephone number of the receiving laboratory and the return address and telephone number of the shipper.

6.0 SHIP-SPECIFIC HEALTH AND SAFETY PROCEDURES

This section specifies the health and safety procedures and practices to be used by the sampling team during sampling on board Princess Cruises' Island Princess. This section is a supplement to the General Health and Safety Plan for Large Cruise Ships, and provides general health and safety information for this sampling episode. The sampling team is obligated to follow all safety protocols delineated in the General Health and Safety Plan for Large Cruise Ships and the procedures specified in this section.

Sampling personnel are required to wear nonskid, steel-toed shoes, long sleeves, and long pants at all times while in sampling, preserving, or otherwise handling samples. Nitrile gloves, safety glasses with side shields (or goggles) must be worn when collecting and preserving samples. Contact lenses may be worn with goggles. Dust masks or face shields are optional equipment at sampling points unless there is a splash potential (i.e., sampling port is located at sampler's waist level or higher). Hearing protection will be worn in all ship machinery areas and other ship spaces where hearing protection requirements are posted. Heat resistant gloves and Tyvek suits will be worn as needed at each sampling station for protection from splash or hot samples, or as required by ship safety protocol. Ship supervisors in sampling areas will be notified prior to sampling. Sampling personnel will keep MSDSs for all chemical preservatives in the sampling file box for easy access. Sampling crew will not enter confined spaces (as defined by 29 CFR 1910.146) with any portion of the body.

Prior to the start of sampling activities, sampling crew personnel will attend a formal health and safety briefing conducted by the Island Princess's Chief Environmental Officer. The briefing will address all health and safety issues for personnel working on the ship, including special signals, alarm systems, evacuation routes and assembly points, emergency phone numbers and procedures, and the location of the on-board medical clinic. In addition, the briefing tour will include a tour of the sampling areas, during which the sampling team will be advised of any sampling point-specific health and safety hazards, as well as the locations of to emergency eyewashes and safety showers.

Before sampling at any point, crew members will locate the nearest eyewash and safety shower. If an eyewash in not available in the immediate vicinity of the sampling area, a portable eyewash unit will be stationed in that area for use during sampling and sample preservation.

6.1 Sampling Point-Specific Safety Procedures

All sampling team members will be advised of any sampling point-specific safety protocol during the formal on-ship health and safety briefing. A summary of all the known sampling point-specific safety hazards is provided in Table 6-1 along with the personal protective equipment (PPE) required at each sampling point. The sampling crew health and safety officer (HSO) and the sampling team will inspect each sampling point area to identify unique or additional hazards not already covered in this plan or during the formal health and safety briefing. If additional hazards are found, the sampling crew will be informed of each hazard and required control measures prior to the start of work. Where identified hazards may affect the ship's personnel, the HSO will notify an appropriate member of the ship's crew.

6.2 Physical Hazards

The use of narrow walkways or steep stairs may be necessary to access sampling points. Prior to use, the walkways and stairs will be inspected. If platforms are defective (e.g., rails missing or unsecured walkways), ship personnel will be notified immediately. Sampling personnel will not use these access points until appropriate control measures have been implemented or an alternate route is established. Crew members must have one hand free to hold the railing when using narrow stairways. Samplers will not block aisles, walkways, or areas where ship's personnel routinely work in order to access the sampling point unless it is unavoidable, and the ship's crew is notified.

Noise will be a hazard on certain areas of the ship. Hearing protection will be used by the sampling team where required by the ship, when sampling members are having trouble hearing or being heard when standing three feet or less away from another person, or

when deemed necessary by the HSO. Sampling personnel will receive training on the proper use and fitting of hearing protection in the off-ship health and safety training.

6.3 Thermal Hazards

Heat stress may be a concern in the Island Princess sampling episode. Sampling crew members will potentially become exposed to hot/humid sampling environments as well as thermal or radiant heat generated by equipment. Section 7.0 of the General Health and Safety Plan for Large Cruise Ships should be referred to for specific directions on heat stress prevention, treatment, and monitoring. However, temperatures in the engine room are expected to be comfortable at 20°C to 22°C.

In general, wastewater sampling points are not expected to be hot, since samples are typically collected at the outlet from collection/holding tanks. Possible exceptions include the galley and laundry wastewater characterization samples, which are collected at the inlet to collection/holding tanks. The incinerator ash sample may also be hot.

6.4 Chemical Hazards

The only chemical hazards expected are chemicals used for the preservation of samples. All sampling crew will be advised of any potential chemical hazards at each sampling point as well as any special PPE recommendations during the formal health and safety briefing on board. If the sampling point is above waist height, a face shield or goggles must be worn during sample collection. In order to avoid the ingestion of chemicals, sampling crew members will be required to wash hands thoroughly before eating, drinking, or smoking. Sampling personnel will not be permitted to enter areas where the ship has determined that respiratory protection equipment is necessary to protect against inhalation hazards.

6.5 Biological Hazards

Domestic sewage may potentially contain blood or other potentially infectious material defined under OSHA's blood born pathogen regulations (29 CFR 1910.1030). Typically, blood will not be present in domestic sewage unless it comes directly from the infirmary area of the ship. OSHA recognizes that contact with raw sewage poses a number of health risks, but does not consider contact with diluted raw sewage is an exposure route for blood born pathogens. Nonetheless, sample crew members who sample the domestic sewage portion of the wastewater treatment system are to be aware of the potential danger and will be outfitted with proper PPE (i.e., nitrile gloves, tyvek suites, splash goggles) to minimize the chance for exposure. PPE required or recommended at each sampling point is described in Table 6-1. Sampling crew members are also recommended to have current Tetanus and Hepatitis A and B immunizations to protect themselves against potential biological hazards.

Table 6-1

Sampling Point-Specific Safety Procedures - Princess Cruises Island Princess

Sampling Point Number	Sampling Point Description	Physical Hazards (a)	Personal Protective Equipment
SP-1	Galley wastewater characterization	Possibly hot sample	Possibly heat resistant gloves
SP-2	Laundry wastewater characterization	Possibly hot sample	Possibly heat resistant gloves
SP-3	Accommodations wastewater characterization	None anticipated	None
SP-4	Influent to wastewater treatment	Splash potential	Tyvek and face shield (b)
SP-5	Influent to UV	Splash potential	Tyvek and face shield (b)
SP-6/SP-7	Effluent from wastewater treatment	Splash potential	Tyvek and face shield (b)
SP-8	Galley wastewater discharge	Splash potential	Tyvek and face shield (b)
SP-9	Laundry wastewater discharge	Splash potential	Tyvek and face shield (b)
SP-10	Food pulper wastewater discharge	Splash potential	Tyvek and face shield (b)
SP-11	Screening solids	Splash potential	Tyvek and face shield (b)
SP-12	Waste biosludge	None anticipated	None
SP-13	Incinerator ash	Potentially hot sample	Possibly heat resistant gloves
SP-14	Source water	None anticipated	None
SP-15	Trip blank	None anticipated	None
SP-16	Equipment blank	None anticipated	None

(a) Additional physical hazards, if any, will be identified during the formal on-ship health and safety briefing. Updates to this table should be made as found.
(b) Splash protection required if sampling port is waist high or above.

7.0 REFERENCES

1. Eastern Research Group, Inc., Quality Assurance Project Plan for Rulemaking Support for Large Cruise Ships in Alaska Water. March 2004.

Appendix A

LIST OF CONSTITUENTS FOR ANALYSIS

Table A-1

List of Constituents for Analysis - Volatile Organic Analytes

CAS Number	Common Name	Technique	Method
107131	ACRYLONITRILE	GCMS	1624
71432	BENZENE	GCMS	1624
75274	BROMODICHLOROMETHANE	GCMS	1624
74839	BROMOMETHANE	GCMS	1624
75150	CARBON DISULFIDE	GCMS	1624
107142	CHLOROACETONITRILE	GCMS	1624
108907	CHLOROBENZENE	GCMS	1624
75003	CHLOROETHANE	GCMS	1624
67663	CHLOROFORM	GCMS	1624
74873	CHLOROMETHANE	GCMS	1624
10061015	CIS-1,3-DICHLOROPROPENE	GCMS	1624
4170303	CROTONALDEHYDE	GCMS	1624
124481	DIBROMOCHLOROMETHANE	GCMS	1624
74953	DIBROMOMETHANE	GCMS	1624
60297	DIETHYL ETHER	GCMS	1624
107120	ETHYL CYANIDE	GCMS	1624
97632	ETHYL METHACRYLATE	GCMS	1624
100414	ETHYLBENZENE	GCMS	1624
74884	IODOMETHANE	GCMS	1624
78831	ISOBUTYL ALCOHOL	GCMS	1624
108383	M-XYLENE	GCMS	1624
80626	METHYL METHACRYLATE	GCMS	1624
75092	METHYLENE CHLORIDE	GCMS	1624
1-952	O+P XYLENE	GCMS	1624
127184	TETRACHLOROETHENE	GCMS	1624
56235	TETRACHLOROMETHANE	GCMS	1624
108883	TOLUENE	GCMS	1624
156605	TRANS-1,2-DICHLOROETHENE	GCMS	1624
10061026	TRANS-1,3-DICHLOROPROPENE	GCMS	1624
110576	TRANS-1,4-DICHLORO-2-BUTENE	GCMS	1624
75252	TRIBROMOMETHANE	GCMS	1624
79016	TRICHLOROETHENE	GCMS	1624
75694	TRICHLOROFLUOROMETHANE	GCMS	1624
108054	VINYL ACETATE	GCMS	1624
75014	VINYL CHLORIDE	GCMS	1624
75343	1,1-DICHLOROETHANE	GCMS	1624
75354	1,1-DICHLOROETHENE	GCMS	1624

Table A-1 (Continued)

CAS Number	Common Name	Technique	Method
71556	1,1,1-TRICHLOROETHANE	GCMS	1624
630206	1,1,1,2-TETRACHLOROETHANE	GCMS	1624
79005	1,1,2-TRICHLOROETHANE	GCMS	1624
79345	1,1,2,2-TETRACHLOROETHANE	GCMS	1624
106934	1,2-DIBROMOETHANE	GCMS	1624
107062	1,2-DICHLOROETHANE	GCMS	1624
78875	1,2-DICHLOROPROPANE	GCMS	1624
96184	1,2,3-TRICHLOROPROPANE	GCMS	1624
126998	1,3-BUTADIENE, 2-CHLORO	GCMS	1624
142289	1,3-DICHLOROPROPANE	GCMS	1624
123911	1,4-DIOXANE	GCMS	1624
78933	2-BUTANONE	GCMS	1624
110758	2-CHLOROETHYLVINYL ETHER	GCMS	1624
591786	2-HEXANONE	GCMS	1624
67641	2-PROPANONE	GCMS	1624
107186	2-PROPEN-1-OL	GCMS	1624
107028	2-PROPENAL	GCMS	1624
126987	2-PROPENENITRILE, 2-METHYL-	GCMS	1624
107051	3-CHLOROPROPENE	GCMS	1624
108101	4-METHYL-2-PENTANONE	GCMS	1624

57 VOLATILE ANALYTES

Table A-2

List of Constituents for Analysis - Semivolatile Organic Analytes

CAS Number	Common Name	Technique	Method
83329	ACENAPHTHENE	GCMS	1625
208968	ACENAPHTHYLENE	GCMS	1625
98862	ACETOPHENONE	GCMS	1625
98555	ALPHA-TERPINEOL	GCMS	1625
62533	ANILINE	GCMS	1625
137177	ANILINE, 2,4,5-TRIMETHYL-	GCMS	1625
120127	ANTHRACENE	GCMS	1625
140578	ARAMITE	GCMS	1625
82053	BENZANTHRONE	GCMS	1625
108985	BENZENETHIOL	GCMS	1625
92875	BENZIDINE	GCMS	1625
56553	BENZO(A)ANTHRACENE	GCMS	1625
50328	BENZO(A)PYRENE	GCMS	1625
205992	BENZO(B)FLUORANTHENE	GCMS	1625
191242	BENZO(GHI)PERYLENE	GCMS	1625
207089	BENZO(K)FLUORANTHENE	GCMS	1625
65850	BENZOIC ACID	GCMS	1625
1689845	BENZONITRILE, 3,5-DIBROMO-4-HYDROXY-	GCMS	1625
100516	BENZYL ALCOHOL	GCMS	1625
91598	BETA-NAPHTHYLAMINE	GCMS	1625
92524	BIPHENYL	GCMS	1625
92933	BIPHENYL, 4-NITRO	GCMS	1625
111911	BIS(2-CHLOROETHOXY)METHANE	GCMS	1625
111444	BIS(2-CHLOROETHYL) ETHER	GCMS	1625
108601	BIS(2-CHLOROISOPROPYL) ETHER	GCMS	1625
117817	BIS(2-ETHYLHEXYL) PHTHALATE	GCMS	1625
85687	BUTYL BENZYL PHTHALATE	GCMS	1625
86748	CARBAZOLE	GCMS	1625
218019	CHRYSENE	GCMS	1625
7700176	CROTOXYPHOS	GCMS	1625
84742	DI-N-BUTYL PHTHALATE	GCMS	1625
117840	DI-N-OCTYL PHTHALATE	GCMS	1625
621647	DI-N-PROPYLNITROSAMINE	GCMS	1625
53703	DIBENZO(A,H)ANTHRACENE	GCMS	1625
132649	DIBENZOFURAN	GCMS	1625
132650	DIBENZOTHIOPHENE	GCMS	1625

Table A-2 (Continued)

CAS Number	Common Name	Technique	Method
84662	DIETHYL PHTHALATE	GCMS	1625
131113	DIMETHYL PHTHALATE	GCMS	1625
67710	DIMETHYL SULFONE	GCMS	1625
101848	DIPHENYL ETHER	GCMS	1625
122394	DIPHENYLAMINE	GCMS	1625
882337	DIPHENYLDISULFIDE	GCMS	1625
76017	ETHANE, PENTACHLORO-	GCMS	1625
62500	ETHYL METHANESULFONATE	GCMS	1625
96457	ETHYLENETHIOUREA	GCMS	1625
206440	FLUORANTHENE	GCMS	1625
86737	FLUORENE	GCMS	1625
118741	HEXACHLOROBENZENE	GCMS	1625
87683	HEXACHLOROBUTADIENE	GCMS	1625
77474	HEXACHLOROCYCLOPENTADIENE	GCMS	1625
67721	HEXACHLOROETHANE	GCMS	1625
1888717	HEXACHLOROPROPENE	GCMS	1625
142621	HEXANOIC ACID	GCMS	1625
193395	INDENO(1,2,3-CD)PYRENE	GCMS	1625
78591	ISOPHORONE	GCMS	1625
120581	ISOSAFROLE	GCMS	1625
475207	LONGIFOLENE	GCMS	1625
569642	MALACHITE GREEN	GCMS	1625
72333	MESTRANOL	GCMS	1625
91805	METHAPYRILENE	GCMS	1625
66273	METHYL METHANESULFONATE	GCMS	1625
124185	N-DECANE	GCMS	1625
629970	N-DOCOSANE	GCMS	1625
112043	N-DODECANE	GCMS	1625
112958	N-EICOSANE	GCMS	1625
630013	N-HEXACOSANE	GCMS	1625
544763	N-HEXADECANE	GCMS	1625
924163	N-NITROSODI-N-BUTYLAMINE	GCMS	1625
55185	N-NITROSODIETHYLAMINE	GCMS	1625
62759	N-NITROSODIMETHYLAMINE	GCMS	1625
86306	N-NITROSODIPHENYLAMINE	GCMS	1625
10595956	N-NITROSOMETHYLETHYLAMINE	GCMS	1625
614006	N-NITROSOMETHYLPHENYLAMINE	GCMS	1625
59892	N-NITROSOMORPHOLINE	GCMS	1625
100754	N-NITROSOPIPERIDINE	GCMS	1625

Table A-2 (Continued)

CAS Number	Common Name	Technique	Method
630024	N-OCTACOSANE	GCMS	1625
593453	N-OCTADECANE	GCMS	1625
646311	N-TETRACOSANE	GCMS	1625
629594	N-TETRADECANE	GCMS	1625
638686	N-TRIACONTANE	GCMS	1625
68122	N,N-DIMETHYLFORMAMIDE	GCMS	1625
91203	NAPHTHALENE	GCMS	1625
98953	NITROBENZENE	GCMS	1625
90040	O-ANISIDINE	GCMS	1625
95487	O-CRESOL	GCMS	1625
95534	O-TOLUIDINE	GCMS	1625
95794	O-TOLUIDINE, 5-CHLORO-	GCMS	1625
106478	P-CHLOROANILINE	GCMS	1625
106445	P-CRESOL	GCMS	1625
99876	P-CYMENE	GCMS	1625
60117	P-DIMETHYLAMINOAZOBENZENE	GCMS	1625
100016	P-NITROANILINE	GCMS	1625
608935	PENTACHLOROBENZENE	GCMS	1625
87865	PENTACHLOROPHENOL	GCMS	1625
700129	PENTAMETHYLBENZENE	GCMS	1625
198550	PERYLENE	GCMS	1625
62442	PHENACETIN	GCMS	1625
85018	PHENANTHRENE	GCMS	1625
108952	PHENOL	GCMS	1625
534521	PHENOL, 2-METHYL-4,6-DINITRO-	GCMS	1625
92842	PHENOTHIAZINE	GCMS	1625
23950585	PRONAMIDE	GCMS	1625
129000	PYRENE	GCMS	1625
110861	PYRIDINE	GCMS	1625
108462	RESORCINOL	GCMS	1625
94597	SAFROLE	GCMS	1625
7683649	SQUALENE	GCMS	1625
100425	STYRENE	GCMS	1625
95158	THIANAPHTHENE	GCMS	1625
62555	THIOACETAMIDE	GCMS	1625
492228	THIOXANTHE-9-ONE	GCMS	1625
95807	TOLUENE, 2,4-DIAMINO-	GCMS	1625
217594	TRIPHENYLENE	GCMS	1625
20324338	TRIPROPYLENEGLYCOL METHYL ETHER	GCMS	1625

Table A-2 (Continued)

CAS Number	Common Name	Technique	Method
694804	1-BROMO-2-CHLOROBENZENE	GCMS	1625
108372	1-BROMO-3-CHLOROBENZENE	GCMS	1625
121733	1-CHLORO-3-NITROBENZENE	GCMS	1625
1730376	1-METHYLFLUORENE	GCMS	1625
832699	1-METHYLPHENANTHRENE	GCMS	1625
134327	1-NAPHTHYLAMINE	GCMS	1625
605027	1-PHENYLNAPHTHALENE	GCMS	1625
96128	1,2-DIBROMO-3-CHLOROPROPANE	GCMS	1625
95501	1,2-DICHLOROBENZENE	GCMS	1625
122667	1,2-DIPHENYLHYDRAZINE	GCMS	1625
87616	1,2,3-TRICHLOROBENZENE	GCMS	1625
634366	1,2,3-TRIMETHOXYBENZENE	GCMS	1625
120821	1,2,4-TRICHLOROBENZENE	GCMS	1625
95943	1,2,4,5-TETRACHLOROBENZENE	GCMS	1625
1464535	1,2,3,4-DIEPOXYBUTANE	GCMS	1625
96231	1,3-DICHLORO-2-PROPANOL	GCMS	1625
541731	1,3-DICHLOROBENZENE	GCMS	1625
291214	1,3,5-TRITHIANE	GCMS	1625
106467	1,4-DICHLOROBENZENE	GCMS	1625
100254	1,4-DINITROBENZENE	GCMS	1625
130154	1,4-NAPHTHOQUINONE	GCMS	1625
2243621	1,5-NAPHTHALENEDIAMINE	GCMS	1625
615225	2-(METHYLTHIO)BENZOTHIAZOLE	GCMS	1625
91587	2-CHLORONAPHTHALENE	GCMS	1625
95578	2-CHLOROPHENOL	GCMS	1625
2027170	2-ISOPROPYLNAPHTALENE	GCMS	1625
120752	2-METHYLBENZOTHIOAZOLE	GCMS	1625
91576	2-METHYLNAPHTHALENE	GCMS	1625
88744	2-NITROANILINE	GCMS	1625
88755	2-NITROPHENOL	GCMS	1625
612942	2-PHENYLNAPHTALENE	GCMS	1625
109068	2-PICOLINE	GCMS	1625
243174	2,3-BENZOFLUORENE	GCMS	1625
608275	2,3-DICHLOROANILINE	GCMS	1625
3209221	2,3-DICHLORONITROBENZENE	GCMS	1625
58902	2,3,4,6-TETRACHLOROPHENOL	GCMS	1625
933755	2,3,6-TRICHLOROPHENOL	GCMS	1625
120832	2,4-DICHLOROPHENOL	GCMS	1625
105679	2,4-DIMETHYLPHENOL	GCMS	1625

Table A-2 (Continued)

CAS Number	Common Name	Technique	Method
51285	2,4-DINITROPHENOL	GCMS	1625
121142	2,4-DINITROTOLUENE	GCMS	1625
95954	2,4,5-TRICHLOROPHENOL	GCMS	1625
88062	2,4,6-TRICHLOROPHENOL	GCMS	1625
719222	2,6-DI-TER-BUTYL-P-BENZOQUINONE	GCMS	1625
99309	2,6-DICHLORO-4-NITROANILINE	GCMS	1625
87650	2,6-DICHLOROPHENOL	GCMS	1625
606202	2,6-DINITROTOLUENE	GCMS	1625
56495	3-METHYLCHOLANTHRENE	GCMS	1625
99092	3-NITROANILINE	GCMS	1625
91941	3,3'-DICHLOROBENZIDINE	GCMS	1625
119904	3,3'-DIMETHOXYBENZIDINE	GCMS	1625
1576676	3,6-DIMETHYLPHENANTHRENE	GCMS	1625
92671	4-AMINOBIPHENYL	GCMS	1625
101553	4-BROMOPHENYL PHENYL ETHER	GCMS	1625
89634	4-CHLORO-2-NITROANILINE	GCMS	1625
59507	4-CHLORO-3-METHYLPHENOL	GCMS	1625
7005723	4-CHLOROPHENYLPHENYL ETHER	GCMS	1625
100027	4-NITROPHENOL	GCMS	1625
101144	4,4'-METHYLENEBIS(2-CHLOROANILINE)	GCMS	1625
203546	4,5-METHYLENE PHENANTHRENE	GCMS	1625
99558	5-NITRO-O-TOLUIDINE	GCMS	1625
57976	7,12-DIMETHYLBENZ(A)ANTHRACENE	GCMS	1625

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Table A-3

List of Constituents for Analysis - Metal Analytes

CAS Number	Common Name	Technique	Method
7429905	ALUMINUM	ICP	1620
7440360	ANTIMONY	FURNAA	1620
7440382	ARSENIC	FURNAA	1620
7440393	BARIUM	ICP	1620
7440417	BERYLLIUM	ICP	1620
7440428	BORON	ICP	1620
7440439	CADMIUM	ICP	1620
7440702	CALCIUM	ICP	1620
7440473	CHROMIUM	ICP	1620
7440484	COBALT	ICP	1620
7440508	COPPER	ICP	1620
7439896	IRON	ICP	1620
7439921	LEAD	ICP	1620
7439954	MAGNESIUM	ICP	1620
7439965	MANGANESE	ICP	1620
7439976	MERCURY	CVAA	1620
7439987	MOLYBDENUM	ICP	1620
7440020	NICKEL	ICP	1620
7782492	SELENIUM	FURNAA	1620
7440224	SILVER	ICP	1620
7440235	SODIUM	ICP	1620
7440280	THALLIUM	FURNAA	1620
7440315	TIN	ICP	1620
7440326	TITANIUM	ICP	1620
7440622	VANADIUM	ICP	1620
7440655	YTTRIUM	ICP	1620
7440666	ZINC	ICP	1620

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Table A-4

List of Constituents for Analysis - Organo-Phosphorous Pesticide Analytes

CAS Number	Common Name	Technique	Method
2642719	AZINPHOS ETHYL	GC-FPD	1657
86500	AZINPHOS METHYL	GC-FPD	1657
470906	CHLORFEVINPHOS	GC-FPD	1657
2921882	CHLOROPYRIFOS	GC-FPD	1657
56724	COUMAPHOS	GC-FPD	1657
7700176	CROTOXYPHOS	GC-FPD	1657
78488	DEF	GC-FPD	1657
8065483	DEMETON	GC-FPD	1657
8065483A	DEMETON A	GC-FPD	1657
8065483B	DEMETON B	GC-FPD	1657
333415	DIAZINON	GC-FPD	1657
97176	DICHLOFENTHION	GC-FPD	1657
62737	DICHLORVOS	GC-FPD	1657
141662	DICROTOPHOS	GC-FPD	1657
60515	DIMETHOATE	GC-FPD	1657
78342	DIOXATHION	GC-FPD	1657
298044	DISULFOTON	GC-FPD	1657
2104645	EPN	GC-FPD	1657
563122	ETHION	GC-FPD	1657
13194484	ETHOPROP	GC-FPD	1657
52857	FAMPHUR	GC-FPD	1657
115902	FENSULFOTHION	GC-FPD	1657
55389	FENTHION	GC-FPD	1657
680319	HEXAMETHYLPHOSPHORAMIDE	GC-FPD	1657
21609905	LEPTOPHOS	GC-FPD	1657
121755	MALATHION	GC-FPD	1657
150505	MERPHOS	GC-FPD	1657
10265926	METHAMIDOPHOS	GC-FPD	1657
5598130	METHYL CHLORPYRIFOS	GC-FPD	1657
298000	METHYL PARATHION	GC-FPD	1657
953173	METHYL TRITHION	GC-FPD	1657
7786347	MEVINPHOS	GC-FPD	1657
6923224	MONOCROTOPHOS	GC-FPD	1657
300765	NALED	GC-FPD	1657
56382	PARATHION (ETHYL)	GC-FPD	1657
298022	PHORATE	GC-FPD	1657
732116	PHOSMET	GC-FPD	1657
13171216	PHOSPHAMIDON	GC-FPD	1657
297994	PHOSPHAMIDON E	GC-FPD	1657
23783984	PHOSPHAMIDON Z	GC-FPD	1657

Table A-4 (continued)

CAS Number	Common Name	Technique	Method
299843	RONNEL	GC-FPD	1657
3689245	SULFOTEPP	GC-FPD	1657
35400432	SULPROFOS (BOLSTAR)	GC-FPD	1657
107493	TEPP	GC-FPD	1657
13071799	TERBUFOS	GC-FPD	1657
22248799	TETRACHLORVINPHOS	GC-FPD	1657
34643464	TOKUTHION	GC-FPD	1657
52686	TRICHLORFON	GC-FPD	1657
327980	TRICHLORONATE	GC-FPD	1657
78308	TRICRESYLPHOSPHATE	GC-FPD	1657
512561	TRIMETHYLPHOSPHATE	GC-FPD	1657

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Table A-5

List of Constituents for Analysis - Organo-Halide Pesticide Analytes

CAS Number	Common Name	Technique	Method
30560191	ACEPHATE	GC-HSD	1656
50594666	ACIFIUORFEN	GC-HSD	1656
15972608	ALACHLOR	GC-HSD	1656
309002	ALDRIN	GC-HSD	1656
1912249	ATRAZINE	GC-HSD	1656
1861401	BENFLURALIN (BENEFIN)	GC-HSD	1656
319846	"-BHC	GC-HSD	1656
319857	$-BHC	GC-HSD	1656
58899	(-BHC (LINDANE)	GC-HSD	1656
319868	*-BHC	GC-HSD	1656
314409	BROMACIL	GC-HSD	1656
1689992	BROMOXYNIL OCTANOATE	GC-HSD	1656
23184669	BUTACHLOR	GC-HSD	1656
2425061	CAPTAFOL	GC-HSD	1656
133062	CAPTAN	GC-HSD	1656
786196	CARBOPHENOTHION (TRITHION)	GC-HSD	1656
57749	CHLORDANE	GC-HSD	1656
5103719	" -CHLORDANE (CIS-CHLORDANE)	GC-HSD	1656
5103742	(-CHLORDANE (TRANS-CHLORDANE)	GC-HSD	1656
510156	CHLORBENZILATE	GC-HSD	1656
2675776	CHLORONEB (TERRANEB)	GC-HSD	1656
5836102	CHLOROPROPYLATE (ACARALATE)	GC-HSD	1656
1897456	CHLOROTHALONIL	GC-HSD	1656
96128	DBCP (DIBROMOCHLOROPROPANE)	GC-HSD	1656
1861321	DCPA (DACTHAL)	GC-HSD	1656
72548	4,4'-DDD (TDE)	GC-HSD	1656
72559	4,4'-DDE	GC-HSD	1656
50293	4,4'-DDT	GC-HSD	1656
2303164	DIALLATE (AVADEX)	GC-HSD	1656
2303164A	DIALLATE A	GC-HSD	1656
2303164B	DIALLATE B	GC-HSD	1656
117806	DICHLONE	GC-HSD	1656
115322	DICOFOL	GC-HSD	1656
60571	DIELDRIN	GC-HSD	1656
959988	ENDOSULFAN I	GC-HSD	1656
33213659	ENDOSULFAN II	GC-HSD	1656
1031078	ENDOSULFAN SULFATE	GC-HSD	1656
72208	ENDRIN	GC-HSD	1656
7421934	ENDRIN ALDEHYDE	GC-HSD	1656
53494705	ENDRIN KETONE	GC-HSD	1656
55283686	ETHALFLURALIN (SONALAN)	GC-HSD	1656
2593159	ETRIDIAZOLE	GC-HSD	1656

Table A-5 (Continued)

CAS Number	Common Name	Technique	Method
60168889	FENARIMOL (RUBIGAN)	GC-HSD	1656
76448	HEPTACHLOR	GC-HSD	1656
1024573	HEPTACHLOR EPOXIDE	GC-HSD	1656
465736	ISODRIN	GC-HSD	1656
33820530	ISOPROPALIN (PAARLAN)	GC-HSD	1656
143500	KEPONE	GC-HSD	1656
72435	METHOXYCHLOR	GC-HSD	1656
21087649	METRIBUZIN	GC-HSD	1656
2385855	MIREX	GC-HSD	1656
1836755	NITROFEN (TOK)	GC-HSD	1656
27314132	NORFLUORAZON	GC-HSD	1656
12674112	PCB-1016	GC-HSD	1656
11104282	PCB-1221	GC-HSD	1656
11141165	PCB-1232	GC-HSD	1656
53469219	PCB-1242	GC-HSD	1656
12672296	PCB-1248	GC-HSD	1656
11097691	PCB-1254	GC-HSD	1656
11096825	PCB-1260	GC-HSD	1656
82688	PCNB (PENTACHLORONITROBENZENE)	GC-HSD	1656
40487421	PENDAMETHALIN (PROWL)	GC-HSD	1656
61949766	CIS-PERMETHRIN	GC-HSD	1656
61949777	TRANS-PERMETHRIN	GC-HSD	1656
72560	PERTHANE (ETHYLAN)	GC-HSD	1656
1918167	PROPACHLOR	GC-HSD	1656
709988	PROPANIL	GC-HSD	1656
139402	PROPAZINE	GC-HSD	1656
122349	SIMAZINE	GC-HSD	1656
8001501	STROBANE	GC-HSD	1656
5902512	TERBACIL	GC-HSD	1656
5915413	TERBUTHYLAZINE	GC-HSD	1656
8001352	TOXAPHENE	GC-HSD	1656
43121433	TRIADIMEFON (BAYLETON)	GC_HSD	1656
1582098	TRIFLURALIN	GC-HSD	1656

75 ORGANO-HALIDE PESTICIDE ANALYTES

Table A-6

List of Constituents for Analysis - Chlorinated Biphenyls Congeners

There are 209 possible congeners, 12 of which have toxicological significance (i.e., the "toxic" PCBs identified by the World Health Organization). Method 1668A can unambiguously determine 126 of the 209 congeners as separate chromatographic peaks. The remaining 83 congeners do not appear as separate peaks, but elute from the gas chromatograph in groups of 2 to 6 congeners that cannot be completely resolved by the instrumentation. Ten of the 12 "toxic" congeners are resolved, and the remaining two congeners (PCB 156 and PCB 157) elute as a congener pair. (Because PCB 156 and 157 have identical toxicity equivalency factors (TEFs), it is possible to accurately calculate PCB toxic equivalence (TEQ) based on the 12 toxic congeners.)

For reporting purposes, each sample will be associated with 126 results that represent the 126 single PCB congeners, and another 33 results that represent co-eluting congener groups for the remaining 83 congeners, for a total of 159 PCB congener "results." In addition, each sample will be associated with 10 values corresponding to the 10 possible levels of chlorination for the parent biphenyl. Each of these 10 values represents the sum of the concentrations of all of the congeners in a given level of chlorination (i.e., a total of the mon-chlorinated PCBs, a total of the di-chloro PCBs, etc.). Finally, each sample is associated with a grand total PCB value, which represents the sum of the 126 congener results plus the 33 values for the co-eluting congeners. In summary, each analysis will include 170 unique PCB results (126+33+10+1), and 11 of these results represent totals drawn from the first 159 records (126+33).

159 congeners, including the following 12 "toxic" congeners:

Common Name	Technique	Method
3,3'4,4'-TeCB	HRGCMS	1668
3,4,4',5-TeCB	HRGCMS	1668
2,3,3'4,4'-PeCB	HRGCMS	1668
2,3,4,4',5-PeCB	HRGCMS	1668
2,3'4,4',5-PeCB	HRGCMS	1668
2',3,4,4',5-PeCB	HRGCMS	1668
3,3'4,4',5-PeCB	HRGCMS	1668
2,3,3',4,4',5-HxCB	HRGCMS	1668
2,3,3'4,4',5'-HxCB	HRGCMS	1668
2,3',4,4',5,5'-HxCB	HRGCMS	1668
3,3'4,4',5,5'-HxCB	HRGCMS	1668
2,3,3',4,4',5,5'-HpCB	HRGCMS	1668

209 PCB CONGENERS

Table A-7

List of Constituents for Analysis - Dioxin and Furan Analytes

CAS Number	Common Name	Technique	Method
3268879	OCTACHLORODIBENZO-P-DIOXIN	HRGCMS	1613
39001020	OCTACHLORODIBENZOFURAN	HRGCMS	1613
35822469	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXINS	HRGCMS	1613
67562394	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	HRGCMS	1613
39227286	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	HRGCMS	1613
70648269	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	HRGCMS	1613
55673897	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	HRGCMS	1613
57653857	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	HRGCMS	1613
57117449	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	HRGCMS	1613
40321764	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	HRGCMS	1613
57117416	1,2,3,7,8-PENTACHLORODIBENZOFURAN	HRGCMS	1613
19408743	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	HRGCMS	1613
72918219	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	HRGCMS	1613
60851345	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	HRGCMS	1613
57117314	2,3,4,7,8-PENTACHLORODIBENZOFURAN	HRGCMS	1613
1746016	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	HRGCMS	1613
51207319	2,3,7,8-TETRACHLORODIBENZOFURAN	HRGCMS	1613

17 DIOXIN ANALYTES

Appendix B

Field Measurement Test Kit Instructions and Calibration Requirements

Appendix B of the Sampling and Analysis Plan for Island Princess can be found in the Cruise Ship Rulemaking Record in Section 6.4, Document Control Number 00337.

Appendix C

Sampling Schedule

Pre-Sampling and Sampling Schedules
Princess Cruises Island Princess

August 20 (Friday)

- Pre-Sampling Team arrives in Vancouver.

August 21 (Saturday)
Vancouver, 7:30 am to 5:30 pm

- Board Island Princess.
- Establish ship contacts, emergency procedures, sampling procedures.
- Health and safety briefing and lifeboat drill.
- Locate and load ISCOs, flow meters, bottles, trip blank, and pre-sampling equipment/PPE.
- Verify all sampling ports have been installed.
- Locate storage and staging areas; prep and organize these areas.
- Locate/confirm availability of berthing areas for sampling staff.
- Identify and test Internet connection.
- Check bottles for breakage or incomplete shipment.

August 22 (Sunday)
Cruising Inside Passage

- SP-4: Influent to wastewater treatment. Install Controlotron flow meter on combined influent pipe. Begin logging data; compare to other flow data sources for confirmation of setup. Practice downloading data from flow meter. Connect to ISCO, and practice programming.
- Complete data sheets.

August 23 (Monday)
Ketchikan, 6:30 am to 2:30 pm

- SP-4: Influent to wastewater treatment. Download and review flow data. Attempt a test composite.

- SP-6/7: Effluent from wastewater treatment. Install Controlotron meter on the discharge pipe. Practice programming ISCO. Compare results to existing Island Princess flow meter.

- Contact Mail Boxes Etc. to discuss logistics for planned sample and equipment shipment on Thursday, September 2.

- Complete data sheets.

August 24 (Tuesday)
Juneau, 7:00 am to 7:30 pm

- Locate and load sampling equipment.

- Assist laboratory analysis crew member, who will board for the day and set up laboratory space.

- Collect equipment blank and send off with laboratory analysis crew member.

- SP-2: Laundry wastewater characterization. Install Controlotron flow meter on the influent pipe to laundry (pipe under break tank). Begin logging data; collect data on laundry tank levels for confirmation of setup. Practice downloading data from flow meter. Connect to ISCO, and practice programming.

- SP-4: Influent to wastewater treatment. Download and review flow data. Attempt another test composite (if needed).

- SP-6/7: Effluent from wastewater treatment. Download and review flow data. Attempt a test composite.

- Unpack and organize sampling equipment in storage and staging areas. Identify missing or broken equipment.

- Complete data sheets.

August 25 (Wednesday)
Skagway, 7:00 am to 8:30 pm

- SP-2: Laundry wastewater characterization. If flow meter installation was successful, download and review flow data and attempt a test composite. If setup was not successful, develop a plan/schedule for collecting tank level data and samples.

- SP-3: Accommodations wastewater characterization. Attempt to install Controlotron flow meter on one of two potential locations identified; trace pipes and identify any other potential locations. Begin logging data; collect data on accommodations tank levels for confirmation of setup. Practice downloading data from flow meter. Connect to ISCO, and practice programming.

- SP-4: Influent to wastewater treatment. Download and review flow data. Attempt another test composite (if needed).

- SP-6/7: Effluent from wastewater treatment. Download and review flow data. Attempt another test composite (if needed).

- Complete data sheets.

August 26 (Thursday)
Cruising Glacier Bay National Park

- SP-1: Galley wastewater characterization. Attempt to install Controlotron flow meter on the potential location identified; trace pipes and identify any other potential locations. Begin logging data; collect data on galley tank levels for confirmation of setup. Practice downloading data from flow meter. Connect to ISCO, and practice programming.

- SP-2: Laundry wastewater characterization. If flow meter installation was successful, download and review flow data. Attempt a test composite to represent a day at sea. If it was not successful, gather tank level data.

- SP-3: Accommodations wastewater characterization. If flow meter installation was successful, download and review flow data and attempt a test composite. If setup was not successful, develop a plan/schedule for collecting tank level data and samples.

- SP-4: Influent to wastewater treatment. Download and review flow data. Attempt a test composite to represent a day at sea.

- SP-6/7Effluent from wastewater treatment. Download and review flow data. Attempt test composite to represent a day at sea.

- Complete data sheets.

August 27 (Friday)
Cruising College Fjord

- SP-2: Laundry wastewater characterization. If flow meter installation was successful, download and review flow data. Attempt another test composite (if needed). If it was not successful, gather tank level data.

- SP-3: Accommodations wastewater characterization. If flow meter installation was successful, download and review flow data. Attempt another test composite (if needed). If it was not successful, gather tank level data.

- SP-1: Galley wastewater characterization. If flow meter installation was successful, download and review flow data and attempt a test composite. If setup was not successful, develop a plan/schedule for collecting tank level data and samples.

- SP-4: Influent to wastewater treatment. Download and review flow data. Attempt another test composite (if needed).

- SP-6/7Effluent from wastewater treatment. Download and review flow data. Attempt another test composite (if needed).

- Based on flow data collected, determine appropriate peak/off-peak times for grab samples.

- Determine if ship will empty laundry, galley, food pulper and waste biosludge while cruising from College Fjord to Whittier. Prepare to collect samples for SP-8, SP-9 and SP-10.

- Sampling Team arrives in Anchorage and travels to Whittier

- Complete data sheets.

August 28 (Saturday)
Whittier, 2:00 am to 9:30 pm
Sampling Day 1

- Sampling Team and laboratory analysis crew member board ship at 8:00am.

- Collect samples according to Sampling Schedule table for Island Princess.

- Laboratory analysis crew member analyzes all microbiological grabs.

- Monitor flow meters and download/retrieve flow data and tank level data.

- Conduct field tests after each grab.

- Complete data sheets.

- If graywater overboard samples (SP-8, SP-9, and SP-10) collected Friday night (August 27) due to discharge restrictions, wrap and package samples and transport samples to Federal Express in Anchorage during rental car return. Samples must be to Federal Express in Anchorage by 3:00 pm.

August 29 (Sunday)
Cruising College Fjord
Sampling Day 2

- Collect samples according to Sampling Schedule table for Island Princess.

- Laboratory analysis crew member analyzes all microbiological grabs and Day 1 BOD5 and Settleable Solids samples.

- Prepare all time critical Day 1 samples for shipment from Skagway. Prepare all other Day 1 samples for shipment from Juneau.

- Conduct field tests after each grab.

- Monitor flow meters and download/retrieve flow data and tank level data.

- Complete data sheets

August 30 (Monday)
Cruising Glacier Bay National Park
Sampling Day 3

- Collect samples according to Sampling Schedule table for Island Princess

- Laboratory analysis crew member analyzes all microbiological grabs and Day 2 Settleable Solids samples.

- Prepare all time critical Day 2 samples for shipment from Skagway. Prepare all other Day 2 samples for shipment from Juneau.

- Conduct field tests after each grab.

- Monitor flow meters and download/retrieve flow data and tank level data.

- Complete data sheets.

August 31 (Tuesday)

Skagway, 5:30 am to 8:15 pm
Sampling Day 4

- Collect samples according to Sampling Schedule table for Island Princess.

- Prepare all time critical Day 3 samples for shipment from Skagway. Prepare all other Day 3 samples for shipment from Juneau.

- Meet Sourdough Truck rental at port and transfer all time critical samples to Skagway airport for flight to Juneau. If necessary, one crew member will accompany time critical samples from Skagway to Juneau. This person would be responsible for transferring samples from Juneau Airport to one of the anlalytical contractor's labs, repackaging , with ice (if necessary), and transferring all samples to Federal Express on Wednesday am to ensure they reach the appropriate laboratories on Thursday am. This person would also meet the Island Princess when it docks the next morning in Juneau to help facilitate shipment of all other non-time critical samples via Federal Express. Following shipment, he/she would travel from Juneau back to office. Alternatively, lab contractor personnel at the Juneau laboratory would receive, repackage, and transfer the samples to Federal Express.

- Laboratory analysis crew member analyzes all microbiological grabs and Day 3 Settleable Solids samples.

- Conduct field tests after each grab.

- Monitor flow meters and download/retrieve flow data and tank level data.

- Complete data sheets.

September 1 (Wednesday)
Juneau, 6:30 am to 4:00 pm
Sampling Day 5

- Collect samples according to Sampling Schedule table for Island Princess.

- Prepare all Day 4 samples (night crew) for shipment from Juneau via Federal Express.

- Pack any excess equipment for shipment from Juneau back to the office.

- Ship all Day 1, Day 2, Day 3 non-time critical samples via Federal Express, plus all Day 4 samples (time critical and non-time critical samples) via Federal Express.

- Laboratory analysis crew member analyzes all microbiological grabs and Day 4 Settleable Solids samples.

- Monitor flow meters and download/retrieve flow data and tank level data.

- Complete data sheets.

September 2 (Thursday)
Ketchikan, 8:30 am to 5:45 pm
Sampling Ends

- Prepare Day 5 samples for shipment via Federal Express from Ketchikan.

- Pack remaining equipment, including flow meters for shipment via Federal Express from Ketchikan.

- Laboratory analysis crew member analyzes all microbiological grabs and Day 5 Settleable Solids samples.

- Complete data sheets.

September 3 (Friday)
Cruising Inside Passage

- Pack any additional equipment and prepare for shipment from Vancouver.

- Clean sampling area.

September 4 (Saturday)
Vancouver, 7:30 am to 5:30 pm

- Remainder of sampling crew disembarks.

- Ship any remaining equipment via Federal Express to Chantilly.

Sampling Schedule for Island Princess (8/28 to 9/1)

Sample Point	Day 1 (Whittier, 2a-9:30p) Saturday, 8/28/04	Day 2 (At Sea) Sunday, 8/29/04	Day 3 (At Sea) Monday, 8/30/04	Day 4 (Skagway, 5:30a-8:15p) Tuesday, 8/31/04	Day 5 (Juneau, 6:30a-4p) Wednesday, 9/01/04
SP-1 Galley Wastewater Characterization	**Grabs** (4x): VOCs, HEM/SGT-HEM, Cyanide; (2x): Micros Composite: SVOCs Metals BOD Solids Group I Group II Minimum Volume: 8.5 L	**Grabs** (4x): VOCs, HEM/SGT-HEM, Cyanide; (2x): Micros Composite: SVOCs Metals BOD Solids Group I Group II Minimum Volume: 8.5 L	**Grabs** (4x): VOCs, HEM/SGT-HEM, Cyanide; (2x): Micros Composite: SVOCs Metals BOD Solids Group I Group II Pesticides Minimum Volume: 12.5 L	**Grabs** (4x): VOCs, HEM/SGT-HEM, Cyanide; (2x): Micros Composite: SVOCs Metals BOD Solids Group I Group II Minimum Volume: 8.5 L	**Grabs** (4x): VOCs, HEM/SGT-HEM, Cyanide; (2x): Micros Composite: SVOCs Metals BOD Solids Group I Group II Minimum Volume: 8.5 L
SP-2 Laundry Wastewater Characterization	**Grabs** (4x): VOCs, HEM/SGT-HEM, Cyanide; (2x): Micros Composite: SVOCs Metals BOD Solids Group I Group II D/F Minimum Volume: 10.5 L	**Grabs** (4x):VOCs, HEM/SGT-HEM, Cyanide; (2x): Micros Composite: SVOCs Metals BOD Solids Group I Group II Minimum Volume: 8.5 L	**Grabs** (4x): VOCs, HEM/SGT-HEM, Cyanide; (2x): Micros Composite: SVOCs Metals BOD Solids Group I Group II Minimum Volume: 8.5 L	**Grabs** (4x): VOCs, HEM/SGT-HEM, Cyanide; (2x): Micros Composite: SVOCs Metals BOD Solids Group I Group II Minimum Volume: 8.5 L	**Grabs** (4x): VOCs, HEM/SGT-HEM, Cyanide; (2x): Micros Composite: SVOCs Metals BOD Solids Group I Group II Minimum Volume: 8.5 L

Sampling Schedule (8/28 to 9/01) (Continued)

Sample Point	Day 1 (Whittier, 2a-9:30p) Saturday, 8/28/04	Day 2 (At Sea) Sunday, 8/29/04	Day 3 (At Sea) Monday, 8/30/04	Day 4 (Skagway, 5:30a-8:15p) Tuesday, 8/31/04	Day 5 (Juneau, 6:30a-4p) Wednesday, 9/01/04
SP-3 Accommodations Graywater	**Grabs** (4x): VOCs, HEM/SGT-HEM, Cyanide; (2x) Micros Composite: SVOCs Metals BOD Solids Group I Group II Minimum Volume: 8.5 L	**Grabs** (4x): Micros, VOCs, HEM/SGT-HEM, Cyanide; (2x) Micros Composite: SVOCs Metals BOD Solids Group I Group II Minimum Volume: 8.5 L	**Grabs** (4x): Micros, VOCs, HEM/SGT-HEM, Cyanide; (2x) Micros Composite: SVOCs Metals BOD Solids Group I Group II Minimum Volume: 8.5 L	**Grabs** (4x): Micros, VOCs, HEM/SGT-HEM, Cyanide; (2x) Micros Composite: SVOCs Metals BOD Solids Group I Group II Minimum Volume: 8.5 L	**Grabs** (4x): Micros, VOCs, HEM/SGT-HEM, Cyanide; (2x) Micros Composite: SVOCs Metals BOD Solids Group I Group II Minimum Volume: 8.5 L
SP-4 Influent to Wastewater Treatment	**Grabs** (4x): VOCs, HEM/SGT-HEM, Cyanide; (3x) Micros Composite: SVOCs Metals BOD Solids Group I Group II PCBs Minimum Volume: 12.5 L	**Grabs** (4x): VOCs, HEM/SGT-HEM, Cyanide; (3x) Micros Composite: SVOCs Metals BOD Solids Group I Group II Minimum Volume: 8.5 L	**Grabs** (4x): VOCs, HEM/SGT-HEM, Cyanide; (3x) Micros Composite: SVOCs Metals BOD Solids Group I Group II Pesticides Minimum Volume: 10.5 L	**Grabs** (4x): VOCs, HEM/SGT-HEM, Cyanide; (3x) Micros Composite: SVOCs Metals BOD Solids Group I Group II Minimum Volume: 8.5 L	**Grabs** (4x): VOCs, HEM/SGT-HEM, Cyanide; (3x) Micros Composite: SVOCs Metals BOD Solids Group I Group II Minimum Volume: 8.5 L
SP-5 Influent to UV Disinfection	**Grabs** (3x): Micros	**Grabs** (3x): Micros	**Grabs** (3x): Micros	**Grabs** (3x): Micros	**Grabs** (3x): Micros

Sampling Schedule (8/28 to 9/01) (Continued)

Sample Point	Day 1 (Whittier, 2a-9:30p) Saturday, 8/28/04	Day 2 (At Sea) Sunday, 8/29/04	Day 3 (At Sea) Monday, 8/30/04	Day 4 (Skagway, 5:30a-8:15p) Tuesday, 8/31/04	Day 5 (Juneau, 6:30a-4p) Wednesday, 9/01/04
SP-6 Effluent from Wastewater Treatment System	**Grabs** (4x): VOCs, HEM/SGT-HEM plus MS/MSD, Cyanide; (3x): Micros **Composite**: SVOCs Metals BOD Solids Group I Group II Minimum Volume: 8.5 L	**Grabs** (4x): VOCs, HEM/SGT-HEM plus MS/MSD, Cyanide; (3x): Micros **Composite**: SVOCs Metals BOD Solids Group I Group II Minimum Volume: 8.5 L	**Grabs** (4x): VOCs, HEM/SGT-HEM plus MS/MSD, Cyanide; (3x): Micros **Composite**: SVOCs Metals BOD Solids Group I Group II Minimum Volume: 8.5 L	**Grabs** (4x): VOCs, HEM/SGT-HEM, Cyanide; (3x): Micros **Composite**: SVOCs Metals BOD Solids Group I Group II Minimum Volume: 8.5 L	**Grabs** (4x): VOCs, HEM/SGT-HEM, Cyanide; (3x): Micros **Composite**: SVOCs Metals BOD Solids Group I Group II Minimum Volume: 8.5
SP-7 Duplicate of SP-6	**Grabs** (4x): VOCs plus MS/MSD; Cyanide plus MS/MSD; (1x): Micros plus micro lab dup. **Composite**: SVOCs plus MS/MSD Metals plus MS/MSD BOD Solids Minimum Volume: 12.5 L	**Grabs** (4x): VOCs plus MS/MSD; Cyanide plus MS/MSD; (1x): Micros plus micro lab dup. **Composite**: SVOCs plus MS/MSD Metals plus MS/MSD BOD Solids Minimum Volume: 12.5 L	**Grabs** (4x): VOCs plus MS/MSD; Cyanide plus MS/MSD; (1x): Micros plus micro lab dup. **Composite**: SVOCs plus MS/MSD Group I plus MS/MSD Group II plus MS/MSD Dissolved metals (dup only) Minimum Volume: 14.5 L	**Grabs** (1x): Micros plus micro lab dup. **Composite:** Group I plus MS/MSD Group II plus MS/MSD Metals plus MS/MSD Minimum Volume: 12 L	**Composite:** Group I plus MS/MSD Group II plus MS/MSD BOD Solids Minimum Volume: 9.5 L

Sampling Schedule (8/28 to 9/01) (Continued)

Sample Point	Day 1 (Whittier, 2a-9:30p)	Day 2 (At Sea)	Day 3 (At Sea)	Day 4 (Skagway, 5:30a-8:15p)	Day 5 (Juneau, 6:30a-4p)
	Saturday, 8/28/04	**Sunday, 8/29/04**	**Monday, 8/30/04**	**Tuesday, 8/31/04**	**Wednesday, 9/01/04**
SP-8 Galley Wastewater Discharge*	**Grabs** (4x): VOCs, HEM/SGT-HEM, Cyanide; (2x): Micros **Composite**: SVOCs Metals BOD Solids Group I Group II Minimum Volume: 8.5 L	NA	NA	NA	NA
SP-9 Laundry Wastewater Discharge*	**Grabs** (4x): VOCs, HEM/SGT-HEM, Cyanide; (2x): Micros **Composite**: SVOCs Metals BOD Solids Group I Group II Minimum Volume: 8.5 L	NA	NA	NA	NA

Sampling Schedule (8/28 to 9/01) (Continued)

Sample Point	Day 1 (Whittier, 2a-9:30p)	Day 2 (At Sea)	Day 3 (At Sea)	Day 4 (Skagway, 5:30a-8:15p)	Day 5 (Juneau, 6:30a-4p)
	Saturday, 8/28/04	**Sunday, 8/29/04**	**Monday, 8/30/04**	**Tuesday, 8/31/04**	**Wednesday, 9/01/04**
SP-10 Food Pulper Wastewater Discharge*	**Grabs** (4x): VOCs, HEM/SGT-HEM, Cyanide; (2x): Micros **Composite**: SVOCs Metals BOD Solids Group I Group II Minimum Volume: 8.5 L	NA	NA	NA	NA
SP-11 Screening Solids	NA	NA	**Grab** (1x): VOCs SVOCs Metals (total only) Cyanide Group I Group II Total Volume: 7.5 L	NA	NA
SP-12 Waste Biosludge Discharge*	**Grab** (1x): VOCs SVOCs Metals (total only) Cyanide Group I Group II Total Volume: 7.5 L	NA	NA	NA	NA

Sampling Schedule (8/28 to 9/01) (Continued)

Sample Point	Day 1 (Whittier, 2a-9:30p) Saturday, 8/28/04	Day 2 (At Sea) Sunday, 8/29/04	Day 3 (At Sea) Monday, 8/30/04	Day 4 (Skagway, 5:30a-8:15p) Tuesday, 8/31/04	Day 5 (Juneau, 6:30a-4p) Wednesday, 9/01/04
SP-13 Incinerator Ash	NA	NA	**Grab** (1x): SVOCs Metals (total only) D/F	NA	NA
SP-14 Source Water	NA	NA	**Grab** (1x): Micros VOCs SVOCs Metals Cyanide BOD Solids Group I Group II Minimum Volume: 9.5 L	NA	NA
SP-15 Trip Blank	NA	NA	NA	NA	Ship on Day 5
SP-16 Equipment Blank	Perform August 24 **Grab** SVOCs Metals Minimum Volume: 4 L				

Sampling Schedule (8/28 to 9/01) (Continued)

Sample Point	Day 1 (Whittier, 2a-9:30p) Saturday, 8/28/04	Day 2 (At Sea) Sunday, 8/29/04	Day 3 (At Sea) Monday, 8/30/04	Day 4 (Skagway, 5:30a-8:15p) Tuesday, 8/31/04	Day 5 (Juneau, 6:30a-4p) Wednesday, 9/01/04
Shipping Schedule	If SP-8, SP-9 and SP-10 are discharged overboard before entering Prince William Sound, then 3 additional coolers will be required (1 additional VOCs/SVOC and 2 G1/GII, HEM/SGT-HEM)	No shipping Separate SVOC, VOC Group I	No shipping Separate SVOC, VOC, Group I, BOD, Pesticides	Shipping to contractor to resend to Laboratories D1-3 SVOC, VOCs (6) D3 Pesticides (1) D2-3 BOD (1) to lab contractor D1-3 Group I (2) Total: 10 coolers	Shipping via FedEx D4 SVOC, VOCs (2) D1-4 HEMs (10) D1-4 Wet (4) D4 BOD (1) D1-4 A-CN (2) PCBs (1) D1-4 metals (3) Total: 23 coolers
					Thursday, 9/02/04 (Ketchikan, 8:30a-5:45p) Shipping via FedEx D5-SVOC, VOCs (2) D5-HEMs (3) D5-Wet (2) D5-BOD (1) D5-A-CN (1) D5-metals (1) Total: 10 coolers All remaining equipment.

* Actual sample collection day will depend on when the ship discharges holding tanks greater than 12 nm from shore.