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By Wastewater Quality

February 23rd, 2023

Matthew Goodreau
City of Chandler Wastewater Quality Division, Mail Stop 396
PO Box 4008
Chandler, AZ 85244-4008

SUBJECT: Amended 2nd Half 2022 Self-Monitoring Report – July – December 2022 Period
Intel Corporation - Ocotillo Campus (IUP #9)

Dear Mr. Goodreau:

Intel Corporation operates its Ocotillo Campus at 4500 S. Dobson Rd. in Chandler, AZ and holds Industrial User Permit (IUP) #9 issued by the City of Chandler for wastewater discharges. This letter provides certification of Intel Ocotillo's data, the final component of Intel's Significant Industrial User Self-Monitoring Report, as required by IUP #9 Condition III.A.3, for the second half of 2022. Additionally, this report satisfies the requirement to resample at the IWD-1, IWD-2, IWD-6, and IWD-8 compliance points and provide the results by February 25th, 2023 as outlined in the Notice of Violation letter received by Intel Ocotillo on January 26th, 2023.

The permit establishes seven Acid Waste Neutralization system (AWN) compliance points:

- IWD-1 is the Fab 12 AWN, formerly called RO-100
- IWD-2 is the Fab 12 Slurry Liquid Waste Neutralization system (SLW)
- IWD-6 is the Fab 32 AWN
- IWD-8 is the Fab 22 AWN
- IWD-10 is the Plated Acid Waste Neutralization system (PAWN)
- IWD-11 is the F42 AWN A train
- IWD-12 is the F42 AWN B train

The permit establishes three outfall compliance points:

- IWD-3 is the East Sewer Outfall (ESO)
- IWD-4 is the North Sewer Outfall (NSO)
- IWD-9 is the Main Sewer Outfall (MSO)

The following records are attached to this report:

- Analytical Data:
 - Summary tables for the compliance sampling and analyses.
- Laboratory reports:
 - Outfall Local Limits: Job 550-192775-1
Job 550-192765-1
 - Federal TTO IWD 1, 2, 6, & 8 (sampled 10/27/2022 and 12/16/2022):
Job 550-192767-1
Job 550-195102-1
 - Federal TTO IWD 10, 11, & 12 (sampled 10/27/2022):
Job 550-192774-1
 - Federal TTO IWD 1, 2, 6, 8, 10, 11, & 12 (sampled 2/2/2023):
Job 550-197195-1

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The following records are attached to this report.

- pH records:
 - Summary graphs from the Facilities Monitoring System for IWD-9 (MSO)
- Flow records:
 - Summary tables from the Facilities Monitoring System for IWD-3, IWD-4, and IWD-9

Laboratory reports that have been submitted separately to the City of Chandler include the following:

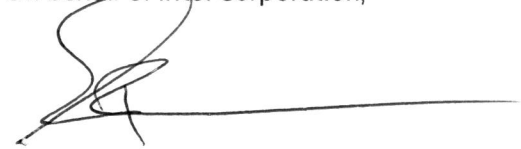
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|-----------------------|-------------------------------|
| • July TN & COD: | Job 550-186653-1 (7/18/2022) |
| • August TN & COD: | Job 550-188093-1 (8/9/2022) |
| • September TN & COD: | Job 550-190023-1 (9/13/2022) |
| • October TN & COD: | Job 550-191350-1 (10/11/2022) |
| • November TN & COD: | Job 550-193264-1 (11/11/2022) |
| • December TN & COD: | Job 550-194442-1 (12/14/2022) |

The attached data is indicative that Intel Corporation complied with its discharge limits.

Please call or email Kristin Mutolo at (480) 258-5270 or kristin.l.mutolo@intel.com if you have any questions. Please include mail stop OC4-005 on any postal correspondence.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

On behalf of Intel Corporation,



INTEL CORPORATION

Sean Aldrich

Corporate Services Ocotillo Site EHS Manager

Monthly SMR Results Summary

7/6/2022	July 2022 Monthly Self-Monitoring Report			
Sample Location	Parameter (mg/L)		Flow (MGD)	
	TN	COD		
IWD-3	18	170	0.41	
IWD-4	15	81	0.0023	
IWD-9	4.2	82	6.88	
Combined Outfalls Conc.	5.0	87	7.28	
<i>Daily Max. Discharge Limit</i>	46.2	443	13.5	

8/1/2022	August 2022 Monthly Self-Monitoring Report			
Sample Location	Parameter (mg/L)		Flow (MGD)	
	TN	COD		
IWD-3	9.4	110	0.60	
IWD-4	45	1200	0.012	
IWD-9	5.6	51	7.59	
Combined Outfalls Conc.	5.9	57	8.20	
<i>Daily Max. Discharge Limit</i>	46.2	443	13.5	

9/7/2022	September 2022 Monthly Self-Monitoring Report			
Sample Location	Parameter (mg/L)		Flow (MGD)	
	TN	COD		
IWD-3	23	370	0.23	
IWD-4	21	380	0.0036	
IWD-9	4.7	45	7.14	
Combined Outfalls Conc.	5.3	55	7.37	
<i>Daily Max. Discharge Limit</i>	46.2	443	13.5	

10/3/2022	October 2022 Monthly Self-Monitoring Report			
Sample Location	Parameter (mg/L)		Flow (MGD)	
	TN	COD		
IWD-3	12	250	0.23	
IWD-4	20	93	0.0040	
IWD-9	5.5	27	7.01	
Combined Outfalls Conc.	5.7	34	7.24	
<i>Daily Max. Discharge Limit</i>	46.2	443	13.5	

11/7/2022	November 2022 Monthly Self-Monitoring Report			
Sample Location	Parameter (mg/L)		Flow (MGD)	
	TN	COD		
IWD-3	13	380	0.17	
IWD-4	14	120	0.0035	
IWD-9	6.1	79	8.28	
Combined Outfalls Conc.	6.2	85	8.45	
<i>Daily Max. Discharge Limit</i>	46.2	443	13.5	

12/5/2022	December 2022 Monthly Self-Monitoring Report			
Sample Location	Parameter (mg/L)		Flow (MGD)	
	TN	COD		
IWD-3	8.9	160	0.33	
IWD-4	15	120	0.0062	
IWD-9	4.4	43	7.17	
Combined Outfalls Conc.	4.6	48	7.51	
<i>Daily Max. Discharge Limit</i>	46.2	443	13.5	

H2 Local Limits Summary

10/27/2022		H2 2022 (Jul-Dec) Local Limits Self-Monitoring Report																				
Sample Location		Parameter (mg/L)																		(lb/day)		(MGD)
		Fluoride	Arsenic	Boron	Cadmium	Chromium	Copper	Cyanide	Lead	Manganese	Molybdenum	Mercury	Nickel	Selenium	Silver	Zinc	Oil & Grease	Chloroform	TSS	Flow		
IWD-3	ESO	1.3	ND	0.44	ND	ND	0.057	0.0089	ND	0.060	ND	ND	ND	0.0012	ND	0.13	ND	ND	94	0.37		
IWD-4	NSO	1.1	ND	0.17	ND	ND	0.17	ND	ND	ND	ND	ND	ND	0.00066	ND	ND	ND	ND	23	0.00		
IWD-9	MSO	1.8	ND	0.096	ND	ND	0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.15		
Reporting Limit		0.047	0.0039	0.0025	0.00066	0.00085	0.0024	0.0039	0.0027	0.00019	0.00088	0.000070	0.0052	0.000074	0.00041	0.0019	3.0	0.00048	40	-		
Sample Type		Composite	Composite	Composite	Composite	Composite	Composite	Grab	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Composite	Grab	Grab	Composite	-	
Test Method		300	200.7	200.7	200.7	200.7	200.7	4500	200.7	200.7	245.1	245.1	200.7	200.8	200.7	200.7	1664B	624	SM 2540D	-		
Combined Outfalls Conc.		1.8	0.00	0.11	0.001	0.00	0.03	0.00	0.00	0.00	0.001	0.00	0.01	0.00013	0.00	0.01	3.0	0.000	43	7.52		
Daily Max. Discharge Limit		10.0	0.22	2.40	0.06	0.43	1.50	0.36	0.46	1.00	0.074	0.02	0.60	0.07	0.30	9.00	100.0	0.37	10,200	13.5		

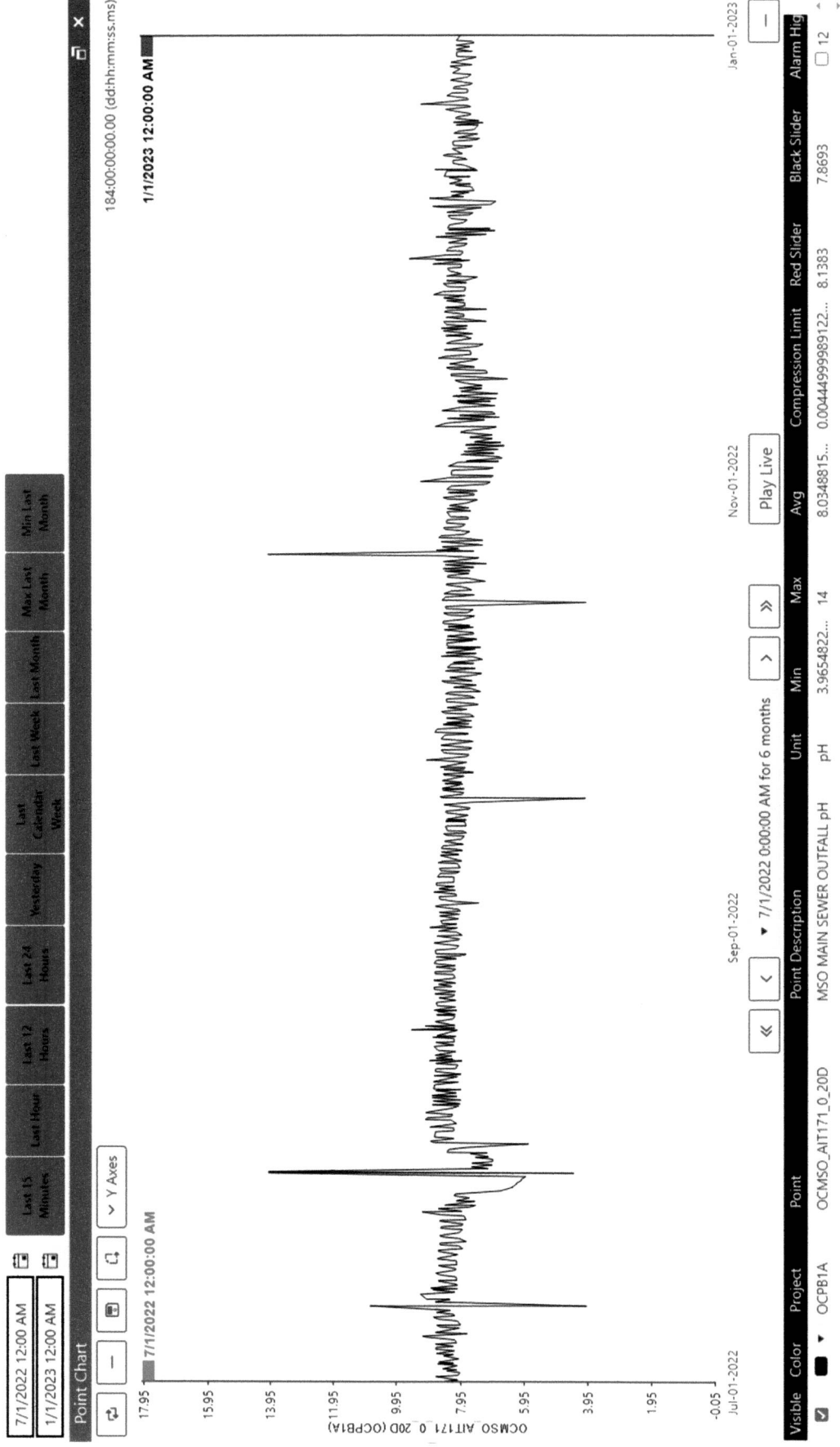
As previously discussed, the majority of the flow is flowing through MSO as intended under normal operating conditions

H2 Federal Limits Summary

Federal Limits: Sampled 10/27/2022 at IWD 10, 11, & 12; Sampled 10/27/2022 and 12/16/2022 at IWD 1, 2, 6, & 8										
Parameter	Results (mg/L)							Limit (mg/L)	Grab or Composite	Test Method
	IWD-1	IWD-2	IWD-6	IWD-8	IWD-10	IWD-11	IWD-12			
TTO	0	-	-	-	-	-	-	0.98	Both	624 & 625
TTO	-	0	-	-	-	-	-	1.36	Both	
TTO	-	-	0	-	-	-	-	1.26	Both	
TTO	-	-	-	0	-	-	-	0.89	Both	
TTO	-	-	-	-	0	-	-	1.37	Both	
TTO	-	-	-	-	-	0	-	0.83	Both	
TTO	-	-	-	-	-	-	0	0.88	Both	
TTO	-	-	-	-	-	-	-	0.88	Both	

Federal Limits: Sampled 2/2/2023 at IWD 1, 2, 6, 8, 10, 11, & 12										
Parameter	Results (mg/L)							Limit (mg/L)	Grab or Composite	Test Method
	IWD-1	IWD-2	IWD-6	IWD-8	IWD-10	IWD-11	IWD-12			
TTO	0	-	-	-	-	-	-	0.98	Both	624 & 625
TTO	-	0	-	-	-	-	-	1.36	Both	
TTO	-	-	0	-	-	-	-	1.26	Both	
TTO	-	-	-	0	-	-	-	0.89	Both	
TTO	-	-	-	-	0	-	-	1.37	Both	
TTO	-	-	-	-	-	0	-	0.83	Both	
TTO	-	-	-	-	-	-	0	0.88	Both	
TTO	-	-	-	-	-	-	-	0.88	Both	

H2 2022 pH Summary graphs IWD-9 (MSO) pH 1 vs Timestamp



*The above graph shows the MSO pH monitoring from 7/1/2022 to 12/31/2022. On the dates of 7/11, 8/9, 9/20, 10/15, 11/8 and 12/10, the above pH probe was calibrated. The pH probes at the MSO cannot be placed into hold mode during calibrations, so the calibrations are shown in the graph above as sharp dips. Intel has service records of these calibrations.

H2 2022 Flow Summary Tables

July 2022 Flow Summary				
Day	NSO	ESO	MSO	Site Total
7/1/2022	0.0033	0.45	6.83	7.29
7/2/2022	0.0038	0.44	6.82	7.27
7/3/2022	0.0030	0.40	6.92	7.32
7/4/2022	0.0030	0.45	7.10	7.56
7/5/2022	0.0028	0.44	7.30	7.74
7/6/2022	0.0023	0.41	6.88	7.28
7/7/2022	0.0014	0.34	6.72	7.06
7/8/2022	0.0030	0.31	6.92	7.23
7/9/2022	0.0015	0.34	6.73	7.07
7/10/2022	0.0020	0.35	6.85	7.20
7/11/2022	0.0020	0.36	6.43	6.80
7/12/2022	0.0402	0.47	7.70	8.21
7/13/2022	0.0035	0.35	6.44	6.79
7/14/2022	0.0033	0.34	6.92	7.27
7/15/2022	0.0033	0.41	6.87	7.28
7/16/2022	0.0026	0.35	6.61	6.95
7/17/2022	0.0025	0.32	6.74	7.07
7/18/2022	0.0044	0.45	7.12	7.57
7/19/2022	0.0029	0.45	6.71	7.16
7/20/2022	0.0023	0.44	6.85	7.29
7/21/2022	0.0028	0.50	7.04	7.54
7/22/2022	0.0025	0.45	6.96	7.41
7/23/2022	0.0022	0.42	7.04	7.46
7/24/2022	0.0067	0.42	7.42	7.84
7/25/2022	0.0760	0.51	8.87	9.45
7/26/2022	0.1010	0.71	9.75	10.57
7/27/2022	0.1039	0.94	9.82	10.86
7/28/2022	0.0943	0.77	9.58	10.45
7/29/2022	0.0356	0.74	8.18	8.96
7/30/2022	0.0171	0.53	7.70	8.25
7/31/2022	0.0174	0.52	8.00	8.54
Maximum	0.10	0.94	9.82	10.86
Average	0.018	0.46	7.35	7.83

August 2022 Flow Summary				
Day	NSO	ESO	MSO	Site Total
8/1/2022	0.0123	0.60	7.59	8.20
8/2/2022	0.0138	0.51	7.89	8.42
8/3/2022	0.0118	0.47	8.15	8.62
8/4/2022	0.0061	0.49	8.06	8.56
8/5/2022	0.0061	0.49	7.46	7.95
8/6/2022	0.0226	0.44	7.42	7.89
8/7/2022	0.0216	0.44	7.64	8.10
8/8/2022	0.0153	0.43	7.83	8.28
8/9/2022	0.0065	0.50	7.61	8.11
8/10/2022	0.0057	0.50	7.49	7.99
8/11/2022	0.0052	0.46	7.16	7.62
8/12/2022	0.0046	0.53	7.33	7.86
8/13/2022	0.0063	0.39	7.32	7.72
8/14/2022	0.0088	0.24	7.83	8.08
8/15/2022	0.0087	0.21	7.25	7.47
8/16/2022	0.0041	0.44	6.95	7.40
8/17/2022	0.0042	0.24	7.20	7.44
8/18/2022	0.0046	0.42	7.31	7.74
8/19/2022	0.0044	0.25	7.41	7.66
8/20/2022	0.0054	0.19	7.14	7.33
8/21/2022	0.0051	0.32	7.32	7.64
8/22/2022	0.0049	0.16	7.16	7.33
8/23/2022	0.0056	0.36	7.05	7.42
8/24/2022	0.0035	0.21	7.18	7.40
8/25/2022	0.0050	0.37	7.06	7.43
8/26/2022	0.0045	0.31	6.69	7.00
8/27/2022	0.0045	0.15	7.39	7.54
8/28/2022	0.0047	0.34	7.18	7.53
8/29/2022	0.0039	0.33	6.68	7.02
8/30/2022	0.0041	0.24	6.71	6.95
8/31/2022	0.0027	0.12	6.85	6.97
Maximum	0.023	0.60	8.15	8.62
Average	0.0073	0.36	7.33	7.70

September 2022 Flow Summary				
Day	NSO	ESO	MSO	Site Total
9/1/2022	0.0032	0.34	6.69	7.03
9/2/2022	0.0044	0.28	7.11	7.39
9/3/2022	0.0036	0.22	7.31	7.53
9/4/2022	0.0026	0.17	7.20	7.37
9/5/2022	0.0021	0.11	7.04	7.15
9/6/2022	0.0024	0.33	6.73	7.06
9/7/2022	0.0036	0.23	7.14	7.37
9/8/2022	0.0043	0.17	7.17	7.34
9/9/2022	0.0043	0.38	7.14	7.53
9/10/2022	0.0063	0.27	7.68	7.96
9/11/2022	0.0053	0.24	7.62	7.87
9/12/2022	0.0053	0.28	7.62	7.91
9/13/2022	0.0047	0.29	7.43	7.72
9/14/2022	0.0043	0.13	7.49	7.63
9/15/2022	0.0043	0.13	7.01	7.15
9/16/2022	0.0047	0.38	7.19	7.58
9/17/2022	0.0052	0.15	6.95	7.11
9/18/2022	0.0051	0.10	7.37	7.48
9/19/2022	0.0040	0.32	6.90	7.23
9/20/2022	0.0044	0.26	6.87	7.13
9/21/2022	0.0078	0.17	7.46	7.63
9/22/2022	0.0069	0.40	7.23	7.63
9/23/2022	0.0062	0.30	7.37	7.68
9/24/2022	0.0048	0.22	6.92	7.15
9/25/2022	0.0045	0.10	6.86	6.96
9/26/2022	0.0041	0.36	7.17	7.53
9/27/2022	0.0046	0.12	7.31	7.44
9/28/2022	0.0043	0.31	6.87	7.18
9/29/2022	0.0047	0.15	7.26	7.41
9/30/2022	0.0049	0.28	7.27	7.56
Maximum	0.0078	0.40	7.68	7.96
Average	0.0046	0.24	7.18	7.42

October 2022 Flow Summary				
Day	NSO	ESO	MSO	Site Total
10/1/2022	0.0041	0.20	7.14	7.35
10/2/2022	0.0040	0.30	7.38	7.68
10/3/2022	0.0040	0.23	7.01	7.24
10/4/2022	0.0047	0.24	7.48	7.73
10/5/2022	0.0042	0.11	7.30	7.42
10/6/2022	0.0037	0.22	6.95	7.17
10/7/2022	0.0041	0.24	7.17	7.41
10/8/2022	0.0044	0.43	6.97	7.41
10/9/2022	0.0044	0.57	6.96	7.54
10/10/2022	0.0042	0.10	6.93	7.04
10/11/2022	0.0040	0.26	7.08	7.35
10/12/2022	0.0044	0.17	7.02	7.20
10/13/2022	0.0041	0.10	7.56	7.67
10/14/2022	0.0040	0.10	7.27	7.37
10/15/2022	0.0059	0.12	7.67	7.80
10/16/2022	0.0086	0.18	8.00	8.19
10/17/2022	0.0046	0.22	8.27	8.49
10/18/2022	0.0043	0.20	6.96	7.17
10/19/2022	0.0035	0.21	7.44	7.65
10/20/2022	0.0035	0.22	7.27	7.50
10/21/2022	0.0054	0.40	7.58	7.98
10/22/2022	0.0048	0.24	7.50	7.74
10/23/2022	0.0037	0.38	7.29	7.68
10/24/2022	0.0018	0.25	7.36	7.62
10/25/2022	0.0031	0.16	7.46	7.62
10/26/2022	0.0028	0.35	7.23	7.58
10/27/2022	0.0031	0.37	7.15	7.52
10/28/2022	0.0030	0.34	7.57	7.91
10/29/2022	0.0030	0.22	6.94	7.16
10/30/2022	0.0030	0.11	7.56	7.67
10/31/2022	0.0035	0.30	7.31	7.61
Maximum	0.0086	0.57	8.27	8.49
Average	0.0041	0.24	7.32	7.56

November 2022 Flow Summary				
Day	NSO	ESO	MSO	Site Total
11/1/2022	0.0038	0.10	7.06	7.16
11/2/2022	0.0039	0.29	7.04	7.33
11/3/2022	0.0025	0.32	7.17	7.49
11/4/2022	0.0021	0.21	7.24	7.45
11/5/2022	0.0027	0.17	7.44	7.61
11/6/2022	0.0029	0.13	7.18	7.32
11/7/2022	0.0035	0.17	8.28	8.45
11/8/2022	0.0035	0.10	8.68	8.78
11/9/2022	0.0045	0.11	7.32	7.44
11/10/2022	0.0037	0.12	7.25	7.37
11/11/2022	0.0029	0.10	7.47	7.58
11/12/2022	0.0030	0.11	7.27	7.38
11/13/2022	0.0030	0.13	7.30	7.43
11/14/2022	0.0028	0.09	6.99	7.08
11/15/2022	0.0026	0.09	7.23	7.33
11/16/2022	0.0022	0.08	7.10	7.18
11/17/2022	0.0026	0.24	7.14	7.39
11/18/2022	0.0029	0.20	7.22	7.42
11/19/2022	0.0035	0.13	7.13	7.26
11/20/2022	0.0032	0.08	6.75	6.83
11/21/2022	0.0030	0.21	6.67	6.89
11/22/2022	0.0035	0.17	7.14	7.31
11/23/2022	0.0029	0.24	7.05	7.30
11/24/2022	0.0030	0.07	7.28	7.35
11/25/2022	0.0032	0.07	7.15	7.22
11/26/2022	0.0024	0.15	7.14	7.30
11/27/2022	0.0037	0.33	6.73	7.07
11/28/2022	0.0032	0.19	7.29	7.49
11/29/2022	0.0035	0.13	7.13	7.26
11/30/2022	0.0033	0.10	6.94	7.04
Maximum	0.0045	0.33	8.68	8.78
Average	0.0031	0.15	7.23	7.38

December 2022 Flow Summary				
Day	NSO	ESO	MSO	Site Total
12/1/2022	0.0047	0.11	7.26	7.38
12/2/2022	0.0047	0.09	7.05	7.15
12/3/2022	0.0040	0.13	7.08	7.22
12/4/2022	0.0058	0.16	7.20	7.37
12/5/2022	0.0062	0.33	7.17	7.51
12/6/2022	0.0051	0.16	6.97	7.14
12/7/2022	0.0036	0.28	6.39	6.68
12/8/2022	0.0035	0.27	5.25	5.52
12/9/2022	0.0028	0.14	7.00	7.14
12/10/2022	0.0032	0.17	6.42	6.59
12/11/2022	0.0030	0.19	6.54	6.73
12/12/2022	0.0031	0.17	6.49	6.66
12/13/2022	0.0027	0.17	5.12	5.30
12/14/2022	0.0019	0.17	7.08	7.25
12/15/2022	0.0052	0.19	6.95	7.15
12/16/2022	0.0008	0.16	6.59	6.76
12/17/2022	0.0007	0.15	6.33	6.49
12/18/2022	0.0012	0.15	6.38	6.53
12/19/2022	0.0011	0.17	6.55	6.72
12/20/2022	0.0010	0.17	6.75	6.92
12/21/2022	0.0012	0.14	6.90	7.04
12/22/2022	0.0009	0.17	6.80	6.97
12/23/2022	0.0010	0.16	6.35	6.51
12/24/2022	0.0009	0.15	6.29	6.44
12/25/2022	0.0009	0.15	6.24	6.39
12/26/2022	0.0114	0.17	6.63	6.81
12/27/2022	0.0288	0.25	8.14	8.41
12/28/2022	0.0027	0.39	7.20	7.60
12/29/2022	0.0016	0.24	6.33	6.57
12/30/2022	0.0020	0.15	6.53	6.69
12/31/2022	0.0016	0.15	6.37	6.52
Maximum	0.029	0.39	8.14	8.41
Average	0.0038	0.18	6.66	6.84