

Sample ID	chemical	Sample date	Sample date	Sample name	Sample name	Sample name	Sample name	Sample name	Sample name	Sample name	Sample name	Sample name	Sample name	Sample name
		8/12-13/2020	11/30/2020	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha
		PFAS	PFAS	PFAS	PFAS	PFAS	PFAS	PFAS	PFAS	PFAS	PFAS	PFAS	PFAS	PFAS
		VOCS	VOCS	VOCS	VOCS	VOCS	VOCS	VOCS	VOCS	VOCS	VOCS	VOCS	VOCS	VOCS

MW-27B (Assoc with 2DEX-03, INJ05, INJ06)	FTS 6:2	13
	PFBA	4
	PFBS	14
	PFHPA	7
	PFHPS	3
	PFHXA	52
	PFHXS	##
	PFOA	81
	PFOS	29
	PFPEA	11
	PFPES	17

	FTS 4:2	22
	FTS 6:2	##
	FTS 8:2	4
	PFBA	86
	PFBS	91

MW-52BR (Assoc with 2DEX-03, INJ05, INJ06)	PFHPA	##
	PFHPS	74
	PFHXA	##
	PFHXS	##
	PFNA	15
	PFNS	1
	PFOA	##
	PFOS	##
	PFPEA	##
	PFPES	##

MW-92B (Assoc 2DEX-02, 2DEX-04, INJ01, INJ02)	FTS 4:2	76
	FTS 6:2	##
	FTS 8:2	25
	PFBA	##
	PFBS	##
	PFDA	1
	PFHPA	##
	PFHPS	##
	PFHXA	##
	PFHXS	##
	PFNA	55
	PFNS	2
	PFOA	##
	PFOS	##
	PFSOA	3
PFPEA	##	
PFPES	##	

MW-93B (Assoc 2DEX-02, 2DEX-04, INJ01, INJ02)	FTS 4:2	4
	FTS 6:2	94
	PFBA	9
	PFBS	22
	PFHPA	17
	PFHPS	9
	PFHXA	52
	PFHXS	##
	PFNA	1
	PFOA	35
	PFOS	87
	PFPEA	35

	PFPEs	30
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MW-94C (Assoc 2DEX-02, 2DEX-04, INJ01, INJ02)	FTS 4:2	17
	FTS 6:2	##
	FTS 8:2	2
	PFBA	56
	PFBS	##
	PFHPA	##
	PFHPS	73
	PFHXA	##
	PFHXS	##
	PFNA	8
	PFNS	1
	PFOA	##
	PFOS	##
	PFPEA	##
PFPEs	##	

MW-203B (Assoc 2BEX-06, INJ09, INJ10)	FTS 4:2	1
	FTS 6:2	49
	PFBA	12
	PFBS	13
	PFHPA	15
	PFHPS	5
	PFHXA	53
	PFHXS	##
	PFNA	1
	PFOA	50
	PFOS	##
	PFPEA	34
	PFPEs	16

MW-204B (Assoc 2BEX-10, INJ13)	FTS 4:2	2
	FTS 6:2	58
	PFBA	8
	PFBS	18
	PFHPA	13
	PFHPS	7
	PFHXA	77
	PFHXS	##

	PFNA	1
	PFOA	94
	PFOS	##
	PFPEA	27
	PFPEA	20

MW-206B (Assoc 2DEX-08, INJ-01, INJ-02)	FTS 4:2	2
	FTS 6:2	65
	PFBA	15
	PFBS	40
	PFHPA	25
	PFHPS	12
	PFHXA	##
	PFHXS	##
	PFNA	1
	PFOA	##
	PFOS	##
	PFPEA	46
	PFPEA	49

MW-202C (Assoc 2BEX-13, INJ12, INJ13)	FTS 4:2	1
	FTS 6:2	30
	PFBA	7
	PFBS	20
	PFHPA	12
	PFHPS	7
	PFHXA	62
	PFHXS	##
	PFNA	1
	PFOA	70
	PFOS	79
	PFPEA	21
	PFPEA	22

	Acetone			
	1-DICHLOROETHANE	0.065	ND	
	1-DICHLOROETHENE	0.977	ND	
	Benzene		3	2
	1,1-dichloroethane			
	1,2-DICHLOROETHENE	1	6	6

** since the 7-13-21 site visit this sample location is prior to the resin system NOT the air strippers

GTWP Influent (prior to air strippers**) OU2-INF

MTBE		2	7	2
PCE		0.5	#	#
TCE		27	#	#
EtFOSAA				
FTS 4:2		8	6	0
FTS 6:2		##	#	50
FTS 8:2		4.5	3	3
MeFOSA				
MeFOSAA				
PFBA		47	#	#
PFBS		93	#	#
PFDS				
PFDA				
PFDaA				
PFHpA		84	#	#
PFHpS				
PHHPS		41	#	#
PFHxA		##	#	20
PFHXS		9504010		
PFDS				
PFNA		9	0	5
PFNS				
PFOA		##	#	80E
PFOSA				
PFOS		720	#	20E
PFPeA		##	#	#
PFPeS		##	#	#
PFTeDA				
PFTrDA				
PFUda				
FTS 6:2 2nd run		NANA	#	
PFHXA 2ND RUN		NANA	#	
PFHXS 2nd run		##	#	#
PFOA 2nd run		NANA	#	
PFOS 2nd run		##	NA	#

Not repor

#	##	##	##	##	##	##	##	#	#	#
#	##	##	##	##	##	##	##	#	#	#

Not rep

FTS 4:2		ND	ND	.3J
FTS 6:2		ND	ND	#
FTS 8:2		ND	ND	.1J
N-ETFOSAA		ND	ND	6ND
N-MEFOSSA		ND	ND	7ND

Ion Resin Bed 25% OU2-TA25	PFBA		ND	ND	#
	PFBS		ND	ND	#
	PFHPA		ND	ND	#
	PFHPS		ND	ND	7
	PFHXA		ND	ND	40E
	PFHXS		ND	ND	30E
	PFNA		ND	ND	.4J
	PFDOA		ND	ND	5ND
	PFDS		ND	ND	4ND
	PFOA		ND	ND	30E
	PFNS		ND	ND	4ND
	PFOS		1.0	ND	00E
	PFPEA		ND	ND	#
	PFPEs		ND	ND	#
	PFTRDA		ND	ND	3ND
PFUDA		ND	ND	5ND	

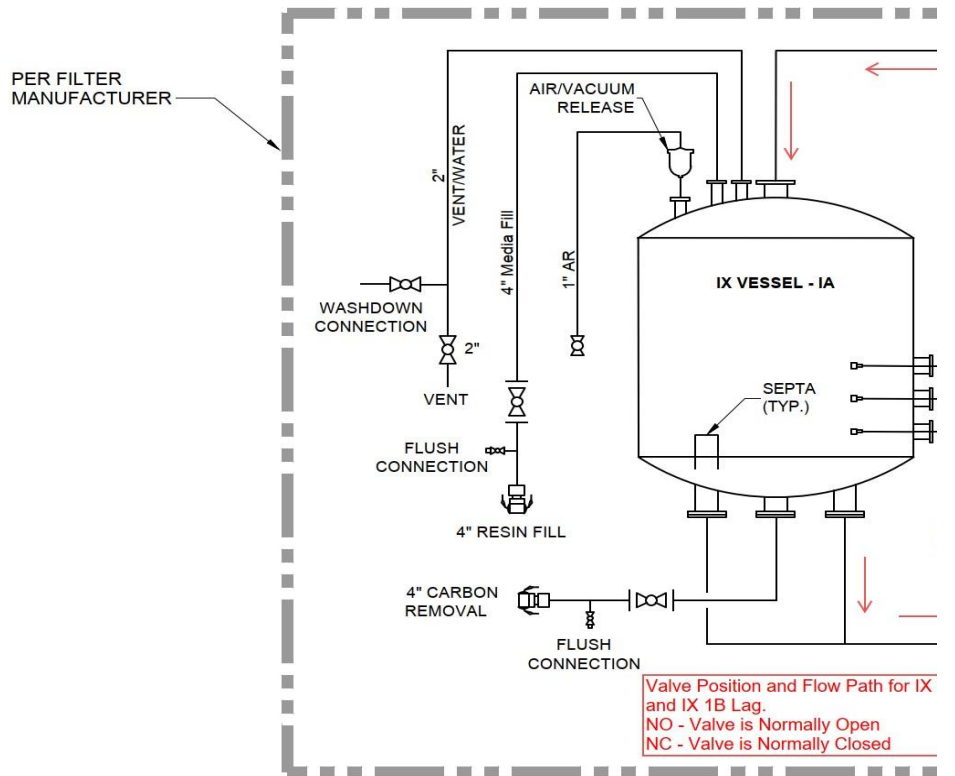
Ion Resin Bed 50% OU2-TA50	4:2 FTS									4.5J					
	6:2 FTS														
	8:2 FTS														
	PFBS														
	PFHpS														
	PFHPeS														
	PHFxS														
	PFHxA										10				
	PFBA		ND	ND	#						33				
	PFDA														
	PFHpA														
	PFNA														
	PFOA						ND	ND	ND	ND	ND	ND		ND	ND
	PFOS		16	ND	.4J	ND	1.6	5	1.2	ND	4			2.4J	ND
	PFPeA		ND	ND	.4J						93				

Ion Resin Bed 75% OU2-TA75	PFBA		ND	#	ND
	PFHXA		ND	7	ND
	PFHXS		ND	5	ND
	PFOA		ND	5	ND
	PFOS		2.2	.3	.3J
	PFPEA		ND	.1	ND

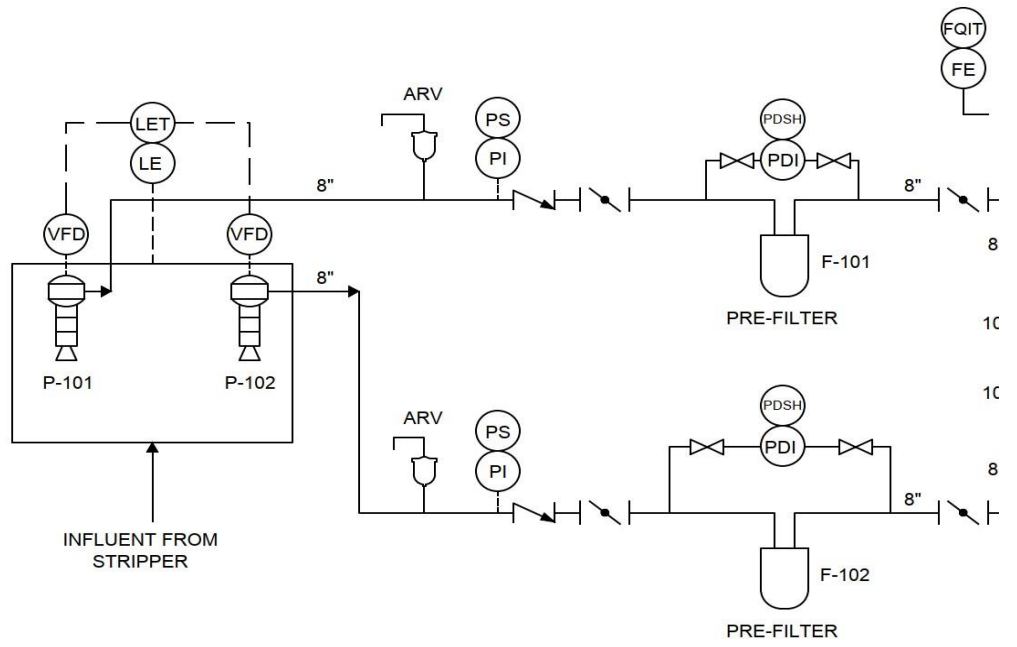
gallons of water treated	7.8 million (December)	9.2 million	2.3 million	1.7 million	1.1 million	16.4 million	15.1 million	16.4 million	15.9 million

P-01 & P-02
 INFLUENT PUMPS
 800 GPM EA @ 175 FT TDH
 60 HP WITH VFD FOR EACH PUMP

F-201 & F-202
 PRE-FILTER VESSELS
 800 GPM EA
 6-FILTER BAGS EA
 5 MICRON



BW IN FR
 RAW WAT



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							5.4j						
N	NR	0.64j	0.65j		3	0.76j	0.58j						
N	NR	0.41j	1	0.46j	4	0.4							
N	NR	1.7	2	3.8	2	2.1	1.9	2					

ted (NR)

N	NR	1.1	1	1.5	1		1.1	1				
N	NR	10	11	14	14	5.9	10	11				
N	NR	36	42	37	39	36	39	29				
N	NR	3.5	NS	3.5u	NS	3.5u	NS	3.7u		3.5u	2.5 jm-	3.4u
N	NR	2.5j	NS	3.4j	NS	2.1j	NS	2.2j		2.5 jm-03	2.8 jm-	2.7
N	NR	100	NS	120	NS	100	NS	82		96	98 s	#
N	NR	2.8j	NS	2.2j	NS	3.5u	NS	3.7 u		3.5u	1.9 jm-	um
N	NR	7	NS	7u	NS	7u	NS	7.5u		7.0u	7u	7u
N	NR	3.5	NS	3.5u	NS	3.5u	NS	3.7u		3.5u	2.2 jm-	3.4u
N	NR	19	NS		NS	19	NS	16		18	19	#
N	NR	44	NS	52	NS	46	NS	40		44	44s	#
										1.8u	4.2 s	1.7u
N	NR	1.7	NS	1.8u	NS	1.8u	NS	1.8u		1.8u	1.8 um-	1.7u
N	NR	1.7	NS	1.8u	NS	1.8u	NS	1.8u		1.8u	3.8	1.7u
N	NR	32	NS	37	NS	26	NS	30		32	33 m-	m-
N	NR	11	NS	14	NS	9	NS	9.5		10 m-03	11	#
N	NR		NS		NS		NS			?	?	?
N	NR	180	NS	210	NS	210	NS	160		160	180 s	#
N	NR	470	NS	570	NS	510	NS	400		430e	480 jm-	#
N	NR	1.7	NS	1.8u	NS	1.8u	NS	1.8u		1.8u	4.2s	1.7u
N	NR	3.2j	NS	3.5	NS	2.5j	NS	2.1j		2.8j	2.6 jm-	2.4
N	NR	1.7	NS	1.8u	NS	1.8u	NS	1.8u		1.8u	2.0 jm-	1.7u
N	NR	250	NS	270	NS	270	NS	210		210	250 s	#
N	NR	1.7	NS	1.8u	NS	1.8u	NS	1.8u		1.8u	1.2j	1.7u
N	NR	410	NS	380	NS	280	NS	270		270	280 sm)	m
N	NR	69	NS	77	NS	69	NS	55		66 m-03	66 m-	m-
N	NR	43	NS	57	NS	45	NS	42		43	46 sm-	m-
N	NR	1.7	NS	1.8u	NS	1.8u	NS	1.8u		1.8u	2.9j	1.7u
N	NR	1.7	NS	1.8u	NS	1.8u	NS	1.8u		1.8u	3.3j	1.7u
N	NR	1.7	NS	1.8u	NS	1.8u	NS	1.8u		1.8u	2.6 jm-	1.7u

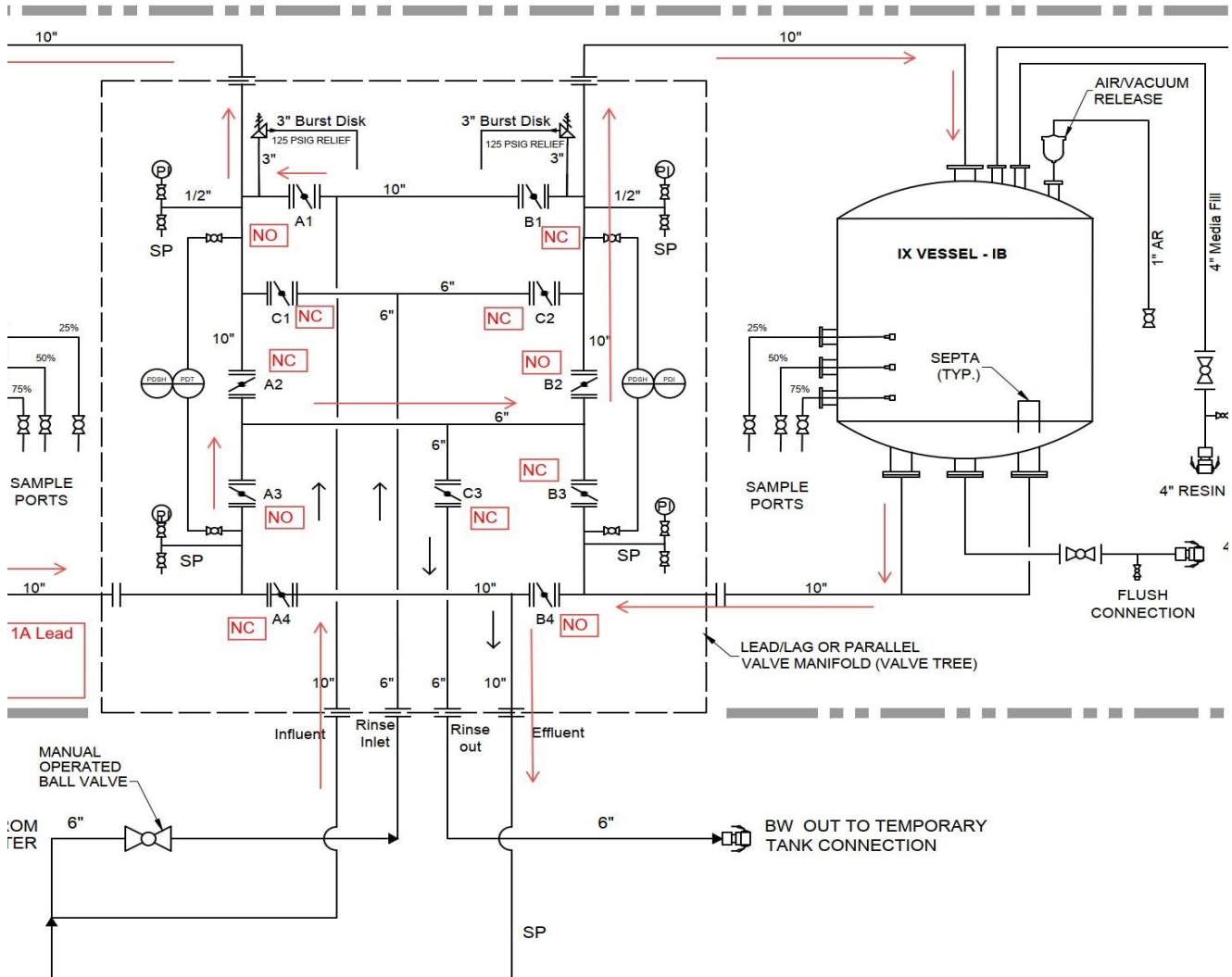
	##		?		?		?
	##		?		?		?

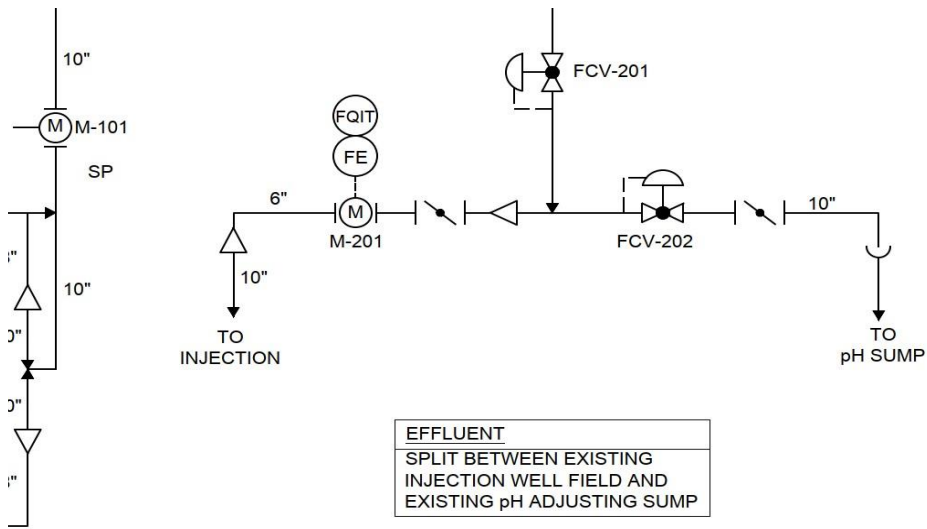
orted

6 mil 5.5 mil 6.7 mil 6 mil 6.1 mil 13.2 mil 7.1 mil 16.6 mil 16.7 mil 14.7 mil 15.2 million

IX TRAIN 1
 PAIRED ION EXCHANGE
 VESSELS IN ALTERNATING
 LEAD/LAG OPERATIONAL
 CONFIGURATION
 1,500 GPM PAIR DESIGN

IX-IA & IX-IB
 ION EXCHANGE VESSEL 12FT DIA
 600 CU FT RESIN MEDIA EA
 FOR REMOVAL OF PFOS/PFOA





EFFLUENT
 SPLIT BETWEEN EXISTING
 INJECTION WELL FIELD AND
 EXISTING pH ADJUSTING SUMP

PROCESS FLOW DIAGRAM

LEGEND	
	BALL VALVE
	CHECK VALVE
	GATE VALVE
	BUTTERFLY VALVE
	VERTICAL TURBINE
	FLOW METER
	FLOW CONTROL

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					Acetone									
0.42j					1,1-DICHLOROETHANE			0.41j	0.4j		0	0.4	0.47j	
0.82j	0.66j	0.77j	0.57j		1,1-DICHLOROETHENE		0.68j	0.78j	0.88j		1	1	1	0.62j
0.72j	0.56j	0.58j			Benzene		0.75jm	0.51j	0.9j	0.9jm	0	0.6	0.58j	0.66j
					1,1-dichloroethane									
3.1	2.8	3	2.6		CIS-1,2-DICHLOROETHENE		2	2.4	2	2.2q	3	2.4	5 m-	3 5 m-

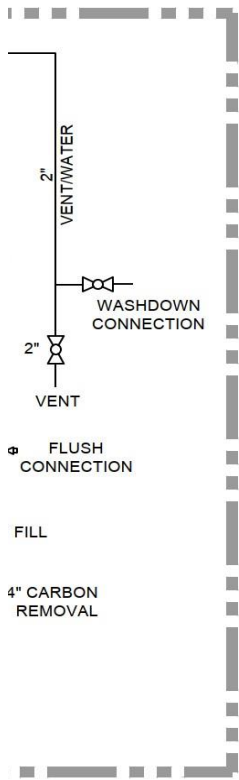
2.5jm	2.4j		4:2 FTS											
1.9u	1.9u		PFBS											
			PFHxS			2.0 jm-03								
21	19		PFBA		23		27		22		22			21
1.9u	1.9u		PFOA			1.8 um-03								
43	44		PFPeA								1.8 um-03			
1.9u	1.9u		PFOS		5	2.5jm-03	1.3 jm-03	1.5 jm-03	3.4 jm-					

			4:2 FTS								1.8j	1.7j	2.0j
			PFBA				24	24	20	24	21	22	20
			PFPeA				16	19	20	30	26	26	30
			PFTeDA							1.8 um-03			

24	24	22	23		PFBA	0.92j				1.1j	1.9j	hlm	jm	jm-
1.8u	1.8u				PFBS									
					PFHpA					1.8	um-03			
					PFHxA					1.2	jm-	1.0h	jm	jm-
					PFPeA	4.0m-	3.4j	5jm-	5jm-	3	m-	6	m-	hm- jm
					PFAS									
1.8u	1.8u				PFOS									
1.8u	1.8u				PFOA					1.8	um-03			
					PFTeDA					1.8	um-03			

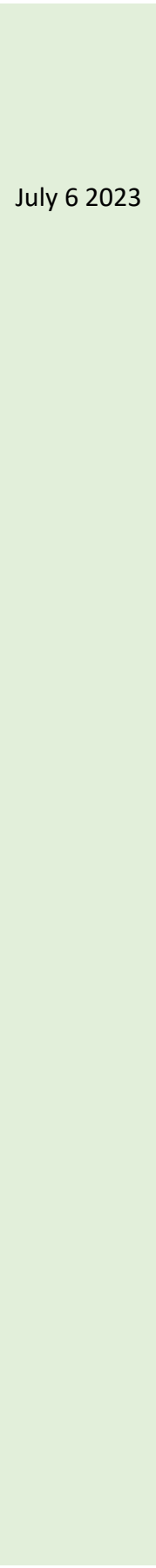
3.9 mil 13.2 mil

9.9 mil 13.9 mil 11.5 mil 11.9 mil 11.9 mil 11.9 mil



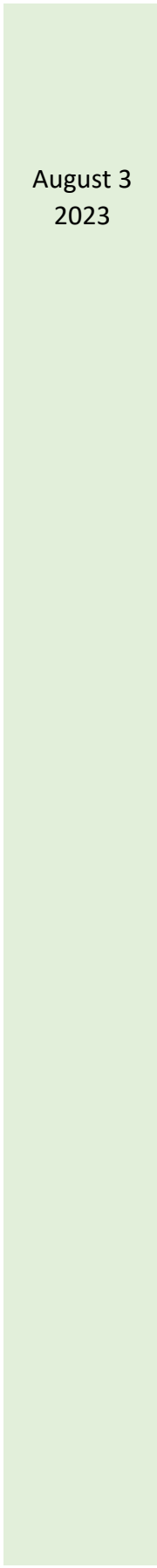
	IX	= ION EXCHANGE
VE	ARV	= AIR RELEASE VALVE
INE PUMP	BWI	= BACKWASH INFLUENT
	DR	= DRAIN AND MEDIA REMOVAL
VALVE	FCV	= FLOW CONTROL VALVE
	SP/SAMPLE	= SAMPLE TAP

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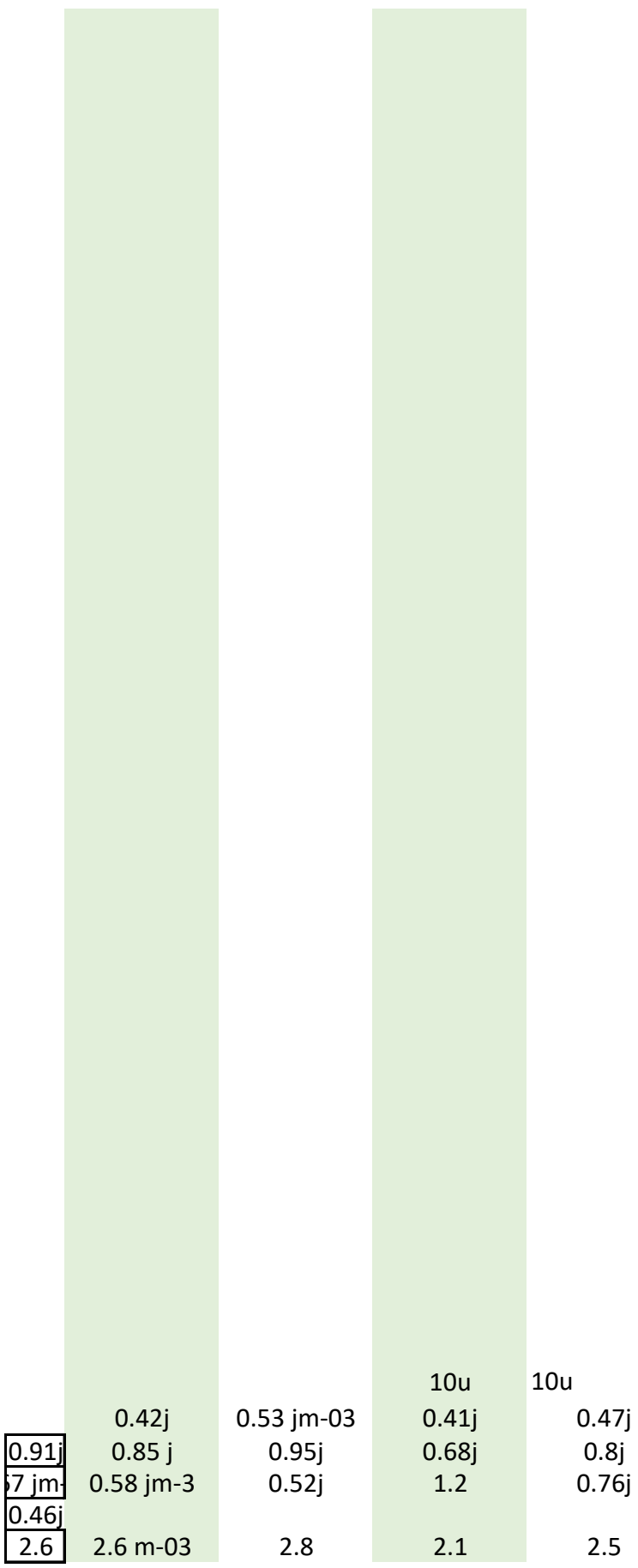
July 6 2023

July 13 2023

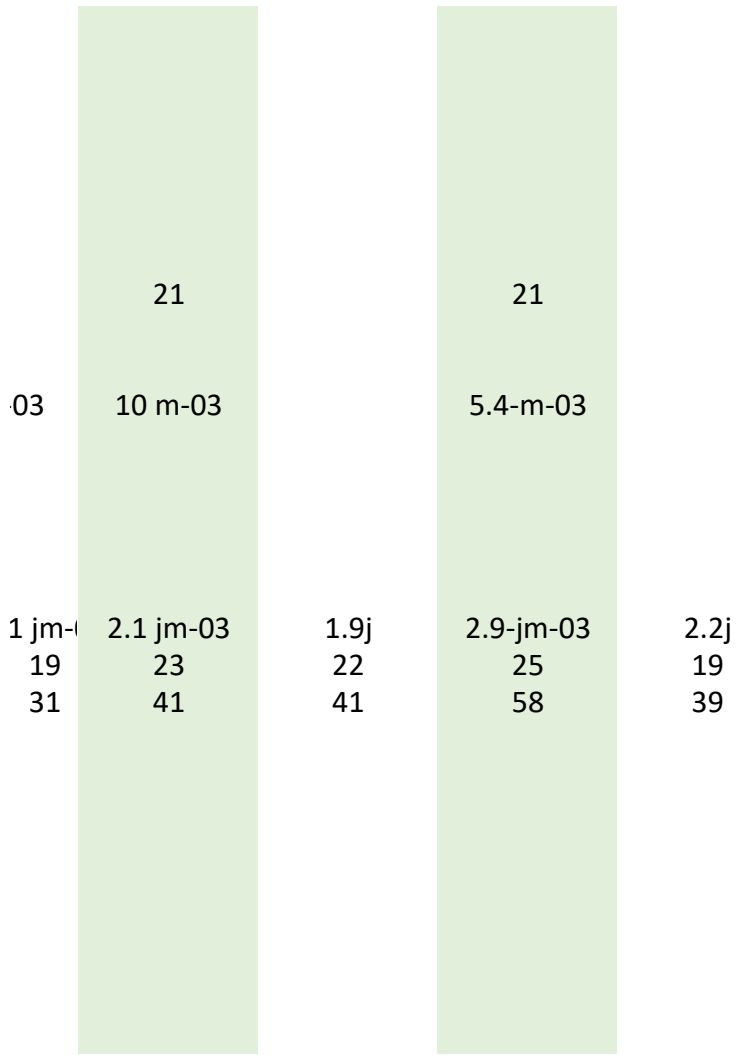


August 3
2023

August 10
2023



1.5	1.3	1.2	1.2	1.2
9.2	8.1	8.5	8.1	7.3
31	38	38	34	37
10 m-	2.8 jm-03 110	3.0 jm-03 100	3.3-jm-02 100	3.1j 110
	2.6 jm-03			1.7j
21 53	21 48	22 53	22 47	20 48 m-03
40	36	39	39	36 m-03
2 jm-0	12	14	13 jm-02	11 m-03
10 m-	220	230 m-03	210 m-02	200 m-03
540	570	500	550	530
	2.9j	3.0 jm-03	3.8 m-02	3.0 j
310	270	270	250	260
.0 m-	320 m-03	300 m-03	360 m-03	310 m-03
7 m-C	73	72	73	69
8 m-C	50	56	50	50 m-03



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all U

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All VOCs "U"

All VOCs "U"

03

1.6j

1.6 jm-03

1.4j

1.2 jm-03

0.96j
3 m-03

1.1j
7.9

8.6 m-03

0.95 jm-02
7.2 m-02

6.3

0.1 mil

9.6 mil