

Appendix B, Table B.1 - Summary of Groundwater Analytical Data - Total Petroleum Hydrocarbons

2022 Annual Groundwater Monitoring Report
HF Sinclair Refining LLC, Artesia Refinery, Artesia, New Mexico

Analyte Group:				TPH		
Analyte:				GRO	DRO	DRO - EP
Units:				mg/L	mg/L	mg/L
CGWSL:				0.0101	0.0858	0.0167
CGWSL Source:				NMED TPH	NMED TPH	NMED TPH
Area	Well ID	Date	Dup			
Cross-Gradient	KWB-13	Apr-19			<0.0247	
	KWB-13	Jun-20			0.0396 J	
	KWB-13	Apr-21			0.0527 J	
	KWB-13	Apr-22			<0.0247	
	MW-136	Jun-20		0.326 V3	0.0924 J	
	MW-136	Oct-20		0.0320 J	0.0873 JB	
	MW-136	Apr-21		<0.0314	0.110	
	MW-136	Sep-21		<0.0314	0.0432 J	
	MW-136	Apr-22		<0.0314	0.0485 J	
	MW-136	Oct-22		0.0314 J	0.124	
	NP-5	Apr-15			0.0387 J	
	NP-5	Apr-17			<0.0247	
	NP-5	Apr-19			<0.0247	
	NP-5	Apr-21			0.0663 J	
	RA-3156	Apr-19				
Evaporation Ponds	RA-3156	Jun-20				
	RA-3156	Apr-21				
	RA-3156	Apr-22				
	MW-1R	Apr-19				0.0756 J
	MW-1R	Jun-20			<0.0247	
	MW-1R	Apr-21			0.124	
	MW-1R	Apr-22			0.0957 J	
	MW-2A	Jun-20		0.0484 J		<0.0247
	MW-2A	Oct-20		<0.0314	0.153	
	MW-2A	Apr-21		<0.0314	1.25	
	MW-2A	Sep-21		0.0423 J	0.181	
	MW-2A	Apr-22		0.0387 JB	0.0837 JB	
	MW-2A	Oct-22		<0.0314	0.151	
	MW-3	Jun-20		<1.57	7.01	
	MW-3	Jun-20	FD	0.691	7.98	
	MW-3	Oct-20		4.06 JB	6.84	
	MW-3	Oct-20	FD	0.491	7.08	
	MW-3	Apr-21		0.681	7.71	
	MW-3	Apr-21	FD	0.591	7.86	
	MW-3	Sep-21		0.242	6.28	
	MW-3	Sep-21	FD	0.239	7.13	
	MW-3	Apr-22		0.446	6.46	
	MW-3	Apr-22	FD	<0.157	6.38	
	MW-3	Oct-22		0.394 B	8.39	
	MW-3	Oct-22	FD	0.398	8.21	
	MW-4A	Jun-20		0.377	4.07	
	MW-4A	Oct-20		0.586	4.93	
	MW-4A	Apr-21		0.620	5.71	
	MW-4A	Sep-21		0.291	4.50	
	MW-4A	Apr-22		0.605	5.86	
	MW-4A	Oct-22		0.507 Q	6.46	
	MW-4B	Apr-15		0.119	1.31	
	MW-4B	Apr-17		0.318	1.21	
	MW-4B	Apr-19		0.181	1.13	
	MW-4B	Apr-21		0.176 B	0.970	
	MW-5A	Jun-20		0.959	7.01	
	MW-5A	Oct-20		1.75	6.72	
	MW-5A	Apr-21		2.56	7.21	
	MW-5A	Sep-21		1.31	3.76	
	MW-5A	Apr-22		1.75	5.82	
	MW-5A	Oct-22		0.887	1.92	
	MW-5B	Apr-15		1.14	11.0	
	MW-5B	Apr-17		2.08	11.2	
	MW-5B	Apr-19		1.82	11.5	
	MW-5B	Apr-21		0.0371 JB	0.389	
	MW-5C	Apr-15		<0.0310	0.580	
	MW-5C	Apr-17		<0.0314	0.500	
	MW-5C	Apr-19		0.0423 JB	0.442	
	MW-5C	Apr-21		1.98	11.3	
	MW-6A	Apr-19		0.315	11.0	
	MW-6A	Jun-20		0.192	4.86	
	MW-6A	Apr-21		0.356 B	6.04	
	MW-6A	Apr-22		0.421	8.03	
	MW-6B	Apr-15		<0.0310	0.386	
	MW-6B	Apr-17		<0.0314	0.276	
	MW-6B	Apr-19		0.0356 J	0.427	
	MW-6B	Apr-21		0.0463 JB	0.346	
	MW-7A	Jun-20		0.240	0.928	
	MW-7A	Jun-20	FD	0.337	0.915	
	MW-7A	Oct-20		0.351 B	0.940	
	MW-7A	Oct-20	FD	0.379	0.886	
	MW-7A	Apr-21		0.364 B	1.06	
	MW-7A	Apr-21	FD	0.358	1.07	
	MW-7A	Sep-21		0.299	1.00	
	MW-7A	Sep-21	FD	0.298	0.959	
	MW-7A	Apr-22		0.263	0.870	
	MW-7A	Apr-22	FD	0.254	0.873	
	MW-7A	Oct-22		0.285	0.842	
	MW-7A	Oct-22	FD	0.280	1.39	
	MW-7B	Apr-15		<0.0310	0.120	
	MW-7B	Apr-17		<0.0314	0.0845 J	
	MW-7B	Apr-19		0.0647 JB	0.0676 J	
	MW-7B	Apr-21		0.0342 J	0.0850 J	
	MW-10	Jun-20		0.931	1.57	
	MW-10	Oct-20		0.640	1.76	
	MW-10	Apr-21		0.712	2.00	
	MW-10	Sep-21		0.849	1.81	
	MW-10	Apr-22		0.426	1.67	
	MW-10	Oct-22		1.11	1.73	
	MW-11A	Jun-20		<0.0314	<0.0247	
	MW-11A	Oct-20				
	MW-11A	Apr-21		<0.0314	0.0459 J	
	MW-11A	Sep-21				
	MW-11A	Apr-22		<0.0314	0.0464 J	
	MW-11A	Oct-22				
	MW-11B	Apr-15		<0.0310	<0.0250	
	MW-11B	Apr-17		<0.0314	<0.0247	
	MW-11B	Apr-19		0.0345 JB	<0.0247	
	MW-11B	Apr-21		<0.0314	0.0402 J	
	MW-15	Apr-19		0.136 B	0.475	
	MW-15	Jun-20		<0.0314	<0.0247	
	MW-15	Apr-21		0.0455 J	0.358	
	MW-15	Apr-22		0.0437 J	0.719	

Analyte Group:				TPH		
Analyte:				GRO	DRO	DRO - EP
Units:				mg/L	mg/L	mg/L
CGWSL:				0.0101	0.0858	0.0167
CGWSL Source:				NMED TPH	NMED TPH	NMED TPH
Area	Well ID	Date	Dup			
Evaporation Ponds	MW-18A	Jun-20				0.408
	MW-18A	Oct-20				0.373 B
	MW-18A	Apr-21				0.518
	MW-18A	Sep-21				0.491
	MW-18A	Apr-22				0.495
	MW-18A	Oct-22				0.417
	MW-18B	Apr-15		<0.0310		0.280
	MW-18B	Apr-17		0.0932 J		0.287
	MW-18B	Apr-19		0.105 B		0.230
	MW-18B	Apr-21		0.0456 J		0.335
	MW-22A	Jun-20		2.73		2.91
	MW-22A	Jun-20	FD	2.10		2.72
	MW-22A	Oct-20		1.68		3.45
	MW-22A	Oct-20	FD	2.13		3.13
	MW-22A	Apr-21		1.43		4.19
	MW-22A	Apr-21	FD	1.45		3.94
	MW-22A	Sep-21		0.539		1.16
	MW-22A	Sep-21	FD	0.541		1.37
	MW-22A	Apr-22		0.955		3.11
	MW-22A	Apr-22	FD	0.989		3.11
	MW-22A	Oct-22		0.824		1.36
	MW-22A	Oct-22	FD	0.750 Q		0.839
	MW-22B	Apr-15		2.34		5.60
	MW-22B	Apr-17		1.76		5.25
	MW-22B	Apr-19		2.58		4.77
	MW-22B	Apr-21		1.97		5.69
	MW-70	Jun-20		1.29		0.833
	MW-70	Oct-20		2.28		0.805
	MW-70	Apr-21		1.57		1.05
	MW-70	Sep-21		1.81		0.860
	MW-70	Apr-22		1.18		1.10
	MW-70	Oct-22		2.10		1.04
	MW-72	Apr-19		0.0396 J		0.497
	MW-72	Jun-20		0.0544 J		0.303
	MW-72	Apr-21		0.0371 JB		0.362
	MW-72	Apr-22		0.0505 JB		0.281 B
	MW-73	Apr-19		0.0435 J		2.56
	MW-73	Jun-20		0.408		2.86
	MW-73	Apr-21		0.426		3.48
	MW-73	Apr-22		0.363 B		2.17
	MW-74	Jun-20		0.490		21.9
	MW-74	Oct-20		1.64		15.6
	MW-74	Apr-21		1.47		15.9
	MW-74	Sep-21		3.56		8.38
	MW-74	Apr-22		1.66		17.4
	MW-74	Oct-22		2.16		15.6
	MW-75	Jun-20		2.44 J		12.2
	MW-75	Oct-20		3.45		15.1
	MW-75	Apr-21		2.15		13.8
	MW-75	Sep-21		2.89		13.3
	MW-75	Apr-22		1.07		14.6
	MW-75	Oct-22		3.34		18.8
	MW-76	Jun-20		1.89		20.8
	MW-76	Oct-20		1.11		16.4
	MW-76	Apr-21		0.902		12.2
	MW-76	Sep-21		0.790 J		11.1
	MW-76	Apr-22		0.890		8.17
	MW-76	Oct-22		0.537		7.14
	MW-77	Apr-19		1.04		72.5
	MW-77	Jun-20		2.88 J		53.1
	MW-77	Apr-21		0.649		68.5
	MW-77	Apr-22		0.193		69.0
	MW-78	Apr-19		<0.314		28.6
	MW-78	Jun-20		<1.57		38.5
	MW-78	Apr-21		0.0950 J		385
	MW-78	Apr-22		<0.157		32.5
	MW-79	Jun-20		0.0534 J		0.0762 J
	MW-79	Oct-20		0.0582 J		0.333
	MW-79	Apr-21		<0.0314		0.331 B
	MW-79	Sep-21		0.0338 J		0.255
	MW-79	Apr-22		0.0515 JB		0.351
	MW-79	Oct-22		<0.0314		0.333
	MW-80	Apr-19		<0.0314		0.210
	MW-80	Jun-20		<0.0314		<0.0247
	MW-80	Apr-21		<0.0314		0.254 B
	MW-80	Apr-22		0.0418 JB		0.0947 JB
	MW-81	Apr-19		<0.0314		1.42
	MW-81	Jun-20		0.0978 J		0.269
	MW-81	Apr-21		<0.0314		0.866 B
	MW-81	Apr-22		0.0517 JB		0.596
	MW-82	Apr-19		0.0619 J		5.49
	MW-82	Jun-20		0.689		2.58
	MW-82	Apr-21		0.216		1.75
	MW-82	Apr-22		0.257 B		3.71
	MW-83	Jun-20		0.843		8.93
	MW-83	Oct-20		1.17		10.2
	MW-83	Apr-21		0.904		7.60
MW-83	Sep-21		0.288		23.0	
MW-83	Apr-22		0.312		13.7	
MW-83	Oct-22		0.149		16.6	
MW-84	Jun-20		1.45		58.9	
MW-84	Oct-20		<3.14		59.2	
MW-84	Apr-21		0.537		62.9	
MW-84	Sep-21		1.37		74.6	
MW-84	Apr-22		0.279		79.4	
MW-84	Oct-22		0.855		42.2	
MW-86	Jun-20		1.77 J		93.9	
MW-86	Oct-20		<6.28		80.2	
MW-87	Jun-20		<0.0314		0.260	
MW-87	Oct-20		0.0469 JB		0.270 B	
MW-87	Apr-21		<0.0314		0.371	
MW-87	Sep-21		<0.0314		0.386	
MW-87	Apr-22		<0.0314		0.386	
MW-87	Oct-22		<0.0314		0.282	

Appendix B, Table B.1 - Summary of Groundwater Analytical Data - Total Petroleum Hydrocarbons

2022 Annual Groundwater Monitoring Report
HF Sinclair Refining LLC, Artesia Refinery, Artesia, New Mexico

Analyte Group:				TPH		
Analyte:				GRO	DRO	DRO - EP
Units:				mg/L	mg/L	mg/L
CGWSL:				0.0101	0.0858	0.0167
CGWSL Source:				NMED TPH	NMED TPH	NMED TPH
Area	Well ID	Date	Dup			
Evaporation Ponds	MW-88	Jun-20		0.0434 J		0.317
	MW-88	Oct-20		0.0806 JB		0.405
	MW-88	Apr-21		0.0750 JB		0.410
	MW-88	Sep-21		0.0602 J		0.421
	MW-88	Apr-22		<0.0314		0.458
	MW-88	Oct-22		0.0489 J		0.460
	MW-120	Jun-20		0.0458 J		0.262
	MW-120	Oct-20		<0.0314		0.402
	MW-120	Apr-21		0.0797 J		0.614 B
	MW-120	Sep-21		0.0867 J		0.346
	MW-120	Apr-22		0.0765 JB		0.240
	MW-120	Oct-22		0.0449 J		0.640
	MW-121	Jun-20		<0.0314		0.204
	MW-121	Oct-20		<0.0314		0.268
	MW-121	Apr-21		<0.0314		0.368 B
	MW-121	Sep-21		<0.0314		0.212
	MW-121	Apr-22		<0.0314		0.115
	MW-121	Oct-22		<0.0314		0.245
	MW-122	Jun-20		<1.57		0.0398 J
	MW-122	Oct-20		<1.57		0.122
	MW-122	Apr-21		<0.0314		0.0845 J
	MW-122	Sep-21		<0.0314		0.0810 J
	MW-122	Apr-22		0.0541 JB		0.202 B
	MW-122	Oct-22		<0.0314		0.165
	MW-123	Jun-20		2.03		2.01
	MW-123	Oct-20		1.30		2.29
	MW-123	Apr-21		1.24		2.51
	MW-123	Sep-21		0.989		2.35
	MW-123	Apr-22		0.956		2.14
	MW-123	Oct-22		0.793		2.09
	MW-124	Jun-20		<0.0314		<0.0247
	MW-124	Oct-20		<0.0314		0.0406 JB
	MW-124	Apr-21		<0.0314		0.0508 J
	MW-124	Sep-21		<0.0314		0.0518 J
	MW-124	Apr-22		<0.0314		0.0566 J
	MW-124	Oct-22		<0.0314		0.0283 J
	OCD-1R	Jun-20		<0.0314		0.110
	OCD-1R	Oct-20		0.0461 JB		0.117
	OCD-1R	Apr-21		<0.0314		0.174
	OCD-1R	Sep-21		<0.0314		0.184
	OCD-1R	Apr-22		0.0387 JB		0.176
	OCD-1R	Oct-22		<0.0314		0.227
	OCD-2A	Jun-20		<0.0314		<0.0247
	OCD-2A	Oct-20		0.0374 JB		0.0650 J
	OCD-2A	Apr-21		<0.0314		0.0839 J
	OCD-2A	Sep-21		<0.0314		0.0849 J
	OCD-2A	Apr-22		0.0328 JB		0.0656 J
	OCD-2A	Oct-22		<0.0314		0.0796 J
	OCD-3	Jun-20		<0.0314		<0.0247
	OCD-3	Oct-20		0.0381 JB		0.0499 J
	OCD-3	Apr-21		<0.0314		0.0580 J
	OCD-3	Sep-21		<0.0314		0.0529 J
	OCD-3	Apr-22		<0.0314		0.0720 J
	OCD-3	Oct-22		<0.0314		<0.0247
	OCD-4	Jun-20		<0.0314		<0.0247
	OCD-4	Oct-20		0.0326 JB		0.0404 J
	OCD-4	Apr-21		<0.0314		0.0556 J
	OCD-4	Sep-21		<0.0314		0.0605 J
	OCD-4	Apr-22		<0.0314		0.0558 J
	OCD-4	Oct-22		<0.0314		<0.0247
	OCD-5	Jun-20		1.09		0.773
	OCD-5	Oct-20		0.724		0.917
	OCD-5	Apr-21		0.337		0.467
	OCD-5	Sep-21		0.845		1.08
	OCD-5	Apr-22		0.428		0.954
	OCD-5	Oct-22		0.794		1.03
	OCD-6	Jun-20		0.134		0.517
	OCD-6	Oct-20		0.159		0.622
	OCD-6	Apr-21		0.186 B		0.666
	OCD-6	Sep-21		0.361		0.677
	OCD-6	Apr-22		0.256 B		0.686
	OCD-6	Oct-22		0.230		0.744
	OCD-7AR	Jun-20		0.637		3.21
	OCD-7AR	Oct-20		0.878		3.45
	OCD-7AR	Apr-21		1.38		4.76
	OCD-7AR	Sep-21		1.72		4.00
	OCD-7AR	Apr-22		1.43		3.79
	OCD-7AR	Oct-22		1.24		4.06
	OCD-7B	Apr-15		<0.0310		0.120
	OCD-7B	Apr-17		<0.0314		0.0746 J
	OCD-7B	Apr-19		<0.0314		0.0638 J
	OCD-7B	Apr-21		0.0516 JB		0.128
	OCD-8A	Jun-20		0.419		2.19
	OCD-8A	Oct-20		0.644		2.17
	OCD-8A	Apr-21		1.04		2.86
	OCD-8A	Sep-21		0.373		1.57
	OCD-8A	Apr-22		0.524		1.75
	OCD-8A	Oct-22		0.255 B		0.816
	OCD-8B	Apr-15		<0.0310		0.840
	OCD-8B	Apr-17		<0.0314		0.585
	OCD-8B	Apr-19		0.0648 JB		0.612
	OCD-8B	Apr-21		0.0690 J		0.632
Field East of Refinery	KWB-1A	Oct-19			0.0614 J	
	KWB-1A	Jun-20			0.123	
	KWB-1A	Oct-20			0.0960 JB	
	KWB-1A	Oct-22			0.182	
	KWB-1C	Apr-15			0.113	
	KWB-1C	Apr-17			0.140	
	KWB-1C	Apr-19			0.0921 J	
	KWB-1C	Apr-21			0.0847 J	
	KWB-7	Jun-20			7.29	
	KWB-7	Oct-20			1.05	
	KWB-7	Apr-21			1.94	
	KWB-7	Sep-21			1.37	
	KWB-7	Apr-22			1.07	
	KWB-7	Oct-22			2.14	

Analyte Group:				TPH		
Analyte:				GRO	DRO	DRO - EP
Units:				mg/L	mg/L	mg/L
CGWSL:				0.0101	0.0858	0.0167
CGWSL Source:				NMED TPH	NMED TPH	NMED TPH
Area	Well ID	Date	Dup			
Field East of Refinery	KWB-8	Oct-16			3.02	
	KWB-8	Apr-17			3.41	
	KWB-8	Oct-17			3.30	
	KWB-8	Oct-20			6.80	
	KWB-10R	Apr-17			4.01	
	KWB-10R	Oct-17			5.18	
	KWB-10R	Apr-18			3.23	
	KWB-10R	Oct-18			3.35	
	KWB-11A	Jun-20		0.444	2.28	
	KWB-11A	Oct-20		0.0992 J	0.376	
	KWB-11A	Sep-21		0.994	1.35	
	KWB-11A	Oct-22		0.153	0.341	
	KWB-11B	Jun-20		<0.0314	0.0514 J	
	KWB-11B	Oct-20		<0.0314	0.0956 J	
	KWB-11B	Apr-21		<0.0314	0.0356 J	
	KWB-11B	Sep-21		<0.0314	0.0363 J	
	KWB-11B	Apr-22		<0.0314	0.0827 J	
	KWB-11B	Oct-22		<0.0314	0.0733 J	
	KWB-12A	Jun-20		<0.0314	0.0477 J	
	KWB-12A	Oct-20		0.0364 J	<0.0247	
	KWB-12A	Sep-21		<0.0314	<0.0247	
	KWB-12A	Oct-22		<0.0314	0.0451 J	
	KWB-12B	Jun-20		<0.0314	0.0305 J	
	KWB-12B	Jun-20	FD	0.0359 JB	0.0415 J	
	KWB-12B	Oct-20		0.0358 J	<0.0247	
	KWB-12B	Oct-20	FD	<0.0314	0.0684 J	
	KWB-12B	Apr-21		<0.0314	0.0955 J	
	KWB-12B	Apr-21	FD	0.0590 J	0.0537 J	
	KWB-12B	Sep-21		<0.0314	<0.0247	
	KWB-12B	Sep-21	FD	<0.0314	<0.0247	
	KWB-12B	Apr-22		<0.0314	<0.0247	
	KWB-12B	Apr-22	FD	<0.0314	<0.0247	
	KWB-12B	Oct-22		<0.0314	<0.0247	
	KWB-12B	Oct-22	FD	<0.0314	<0.0247	
	KWB-P4	Apr-15			0.0820 J	
	KWB-P4	Apr-17			0.0526 J	
	KWB-P4	Apr-19			0.0361 J	
	KWB-P4	Apr-21			0.0330 J	
	MW-57	Jun-20		<0.0314	0.0661 J	
	MW-57	Oct-20		0.0579 J	0.0475 JB	
	MW-57	Apr-21		<0.0314	0.117	
	MW-57	Sep-21		<0.0314	<0.0247	
	MW-57	Apr-22		<0.0314	0.0636 J	
	MW-58	Oct-17			9.77	
	MW-58	Apr-18			5.73	
	MW-58	Oct-18			4.86	
	MW-58	Oct-19			12.1	
	MW-111	Oct-18		1.36	2.63	
	MW-111	Apr-19		1.88	1.54	
	MW-111	Oct-19		1.37	1.80	
	MW-111	Jun-20		3.86	1.77	
	MW-112	Nov-14		28.0	2.20	
	MW-113	Jun-20		1.30	0.226	
	MW-113	Jun-20	FD	0.798 V3	0.158	
	MW-113	Oct-20		3.18	0.784	
	MW-113	Oct-20	FD	3.30	0.814	
	MW-113	Apr-21		3.66	0.330	
	MW-113	Apr-21	FD	4.52	0.405	
	MW-113	Sep-21		22.6	6.19	
	MW-113	Sep-21	FD	20.7	3.49	
	MW-113	Apr-22		1.30	0.328	
	MW-113	Apr-22	FD	1.24	0.334	
	MW-113	Oct-22		22.1	4.82	
	MW-113	Oct-22	FD	24.1	3.86	
	MW-125	Jun-20		<0.0314	0.0700 J	
	MW-125	Oct-20		0.0382 J	0.0942 JB	
	MW-125	Apr-21		<0.0314	0.0654 J	
	MW-125	Sep-21		0.0493 J	0.0250 J	
	MW-125	Apr-22		<0.0314	0.122	
	MW-125	Oct-22		<0.0314	0.0624 J	
	MW-126A	Apr-19		0.124 B	0.370	
	MW-126A	Oct-19		0.903	0.583	
	MW-126A	Jun-20		0.0319 J	0.461	
	MW-126A	Oct-20		0.0669 J	0.451 B	
	MW-126B	Jun-20		<0.0314	0.461	
	MW-126B	Oct-20		0.0343 J	0.312 B	
	MW-126B	Apr-21		<0.0314	0.250	
	MW-126B	Sep-21		<0.0314	0.181	
	MW-126B	Apr-22		<0.0314	0.214	
	MW-126B	Oct-22		0.0325 JB	0.338	
	MW-127	Oct-17		1.68	1.41	
	MW-127	Apr-18		5.15	1.06	
	MW-127	Oct-18		3.13	1.30	
	MW-127	Apr-19		5.94	1.11	
MW-128	Oct-17		1.14	2.37		
MW-128	Apr-18		0.932	1.58		
MW-128	Oct-18		2.76	2.04		
MW-128	Apr-19		3.13	1.81		
MW-129	Apr-16		2.70	1.68		
MW-129	Oct-16		2.17	1.68		
MW-129	Apr-17		1.79	2.13		
MW-129	Apr-18		4.33	1.40		
MW-130	Jun-20		<0.0314	0.609		
MW-130	Oct-20		<0.0314	0.676		
MW-130	Apr-21		<0.0314	0.586		
MW-130	Sep-21		0.0326 J	0.387		
MW-130	Apr-22		0.0341 JB	0.653		
MW-130	Oct-22		<0.0314	0.657		
MW-131	Apr-17		6.81	1.77		
MW-131	Oct-17		4.95	1.58		
MW-131	Oct-19		8.71	1.46		
MW-131	Jun-20		8.68	1.83		
MW-133	Nov-14		9.40	2.80		
MW-133	Apr-15		11.3	3.10		

Appendix B, Table B.1 - Summary of Groundwater Analytical Data - Total Petroleum Hydrocarbons

2022 Annual Groundwater Monitoring Report
HF Sinclair Refining LLC, Artesia Refinery, Artesia, New Mexico

Analyte Group:				TPH		
Analyte:				GRO	DRO	DRO - EP
Units:				mg/L	mg/L	mg/L
CGWSL:				0.0101	0.0858	0.0167
CGWSL Source:				NMED TPH	NMED TPH	NMED TPH
Area	Well ID	Date	Dup			
Field East of Refinery	MW-134	Jun-20		0.0330 JB	0.0820 J	
	MW-134	Jun-20	FD	0.0332 J	<0.0247	
	MW-134	Oct-20		<0.0314	0.107 B	
	MW-134	Oct-20	FD	<0.0314	0.129	
	MW-134	Apr-21		0.0419 J	0.120	
	MW-134	Apr-21	FD	0.101	0.0992 J	
	MW-134	Sep-21		<0.0314	0.297	
	MW-134	Sep-21	FD	<0.0314	0.304	
	MW-134	Apr-22		<0.0314	0.0989 J	
	MW-134	Apr-22	FD	<0.0314	0.104	
	MW-134	Oct-22		<0.0314	0.108	
	MW-134	Oct-22	FD	<0.0314	0.117	
	MW-135	Jun-20		0.0425 J	0.0380 J	
	MW-135	Oct-20		<0.0314	0.0723 JB	
	MW-135	Apr-21		<0.0314	0.0720 J	
	MW-135	Sep-21		<0.0314	<0.0247	
	MW-135	Apr-22		<0.0314	<0.0247	
	MW-135	Oct-22		<0.0314	0.0437 J	
	MW-145	Oct-20				
	MW-145	Oct-20	FD			
	MW-145	Apr-21		<0.0314	0.288	
	MW-145	Sep-21		<0.0314	0.302	
	MW-145	Apr-22		<0.0314	0.133	
	MW-145	Oct-22		<0.0314	0.225	
	MW-146	Oct-20				
	MW-146	Apr-21		<0.0314	0.0733 J	
	MW-146	Sep-21		<0.0314	0.0874 J	
	MW-146	Sep-21	FD	<0.0314	0.0993 J	
	MW-146	Apr-22		<0.0314	<0.0247	
	MW-146	Apr-22	FD	<0.0314	0.0918 J	
	MW-146	Oct-22		<0.0314	0.0433 J	
	MW-146	Oct-22	FD	<0.0314	0.0341 J	
	MW-147	Oct-20				
	MW-147	Apr-21		<0.0314	<0.0247	
	MW-147	Sep-21		<0.0314	0.0884 J	
	MW-147	Apr-22		<0.0314	<0.0247	
	MW-147	Oct-22		<0.0314	0.0355 J	
	MW-148	Oct-20				
	MW-148	Apr-21		<0.0314	0.102	
	MW-148	Sep-21		<0.0314	0.212	
	MW-148	Apr-22		<0.0314	<0.0247	
	MW-148	Oct-22		<0.0314	0.0760 J	
	RA-4196	Apr-19				
	RA-4196	Oct-19				
	RA-4196	Jun-20				
	RA-4196	Oct-20				
	RA-4798	Jun-20				
	RA-4798	Oct-20				
	RA-4798	Apr-21				
	RA-4798	Sep-21				
	RA-4798	Apr-22				
	RW-12R	Apr-17			1.61	
	RW-12R	Apr-18			0.514 B	
	RW-12R	Apr-19			0.822	
	RW-12R	Jun-20			0.633	
	RW-13R	Apr-16			0.808	
	RW-13R	Apr-18			0.526 B	
	RW-18A	Apr-17				
	RW-18A	Apr-18				
	RW-18A	Apr-19				
	RW-18A	Jun-20				
	RW-20	Apr-15			2.10	
	RW-22	Apr-15			5.40	
NCL	MW-18	Apr-19			0.842	
	MW-18	Jun-20			0.812	
	MW-18	Apr-21			1.59	
	MW-18	Apr-22			1.54	
	MW-45	Jun-20			0.739	
	MW-45	Oct-20			0.728	
	MW-45	Apr-21			0.967	
	MW-45	Sep-21			1.98	
	MW-45	Apr-22			1.37	
	MW-45	Oct-22			1.20	
	MW-53	Apr-16			0.316	
	MW-53	Apr-17			0.258	
	MW-53	Apr-18			0.158	
	MW-53	Apr-19			0.229	
	MW-53R	Oct-20			0.206	
	MW-53R	Apr-21			0.123	
	MW-53R	Apr-22			0.136	
	MW-54A	Jun-20			1.97	
	MW-54A	Oct-20			2.82	
	MW-54A	Apr-21			3.49	
	MW-54A	Sep-21			3.89	
	MW-54A	Apr-22			3.72	
	MW-54A	Oct-22			5.32	
	MW-54B	Apr-15	<0.0310		2.47	
	MW-54B	Apr-17	<0.0314		0.881	
	MW-54B	Apr-19	<0.0314		1.84	
	MW-54B	Apr-21	<0.0314		2.02	
	MW-55	Jun-20			0.140	0.950
	MW-55	Oct-20			0.635	1.34
	MW-55	Apr-21			0.412	1.81
	MW-55	Sep-21			0.187	1.41
	MW-55	Apr-22			0.190	1.48
	MW-55	Oct-22			0.0658 J	0.661
	MW-56	Apr-19			0.583	
	MW-56	Jun-20			0.110	
	MW-56	Apr-21			0.175	
	MW-56	Apr-22			0.197	
	MW-108	Jun-20			2.79	
	MW-108	Oct-20			3.18	
	MW-108	Apr-21			4.44	
	MW-108	Sep-21			2.90	
	MW-108	Apr-22			2.83	
	MW-108	Oct-22			3.10	
	NCL-31	Jun-20			0.494	
	NCL-31	Oct-20			0.587	
	NCL-31	Apr-21			0.974	
	NCL-31	Sep-21			0.720	
	NCL-31	Apr-22			0.469	
	NCL-31	Oct-22			0.457	

Analyte Group:				TPH		
Analyte:				GRO	DRO	DRO - EP
Units:				mg/L	mg/L	mg/L
CGWSL:				0.0101	0.0858	0.0167
CGWSL Source:				NMED TPH	NMED TPH	NMED TPH
Area	Well ID	Date	Dup			
NCL	NCL-32	Jun-20			0.533	
	NCL-32	Oct-20			0.800	
	NCL-32	Apr-21			0.984	
	NCL-32	Sep-21			1.56	
	NCL-32	Apr-22			0.962	
	NCL-32	Oct-22			3.46	
	NCL-33	Jun-20			7.21	
	NCL-33	Oct-20			8.54	
	NCL-33	Apr-21			17.3	
	NCL-33	Sep-21			10.2	
	NCL-33	Apr-22			12.6	
	NCL-33	Oct-22			13.0	
	NCL-34A	Oct-18			7.41	
	NCL-34A	Apr-19			6.59	
	NCL-34A	Oct-19			5.90	
	NCL-34A	Jun-20			6.58	
	NCL-44	Jun-20			4.52	
	NCL-44	Oct-20			5.12	
	NCL-44	Apr-21			5.52	
	NCL-44	Sep-21			3.77	
	NCL-44	Apr-22			3.70	
	NCL-44	Oct-22			3.07	
	NCL-49	Jun-20			0.0917	J
	NCL-49	Jun-20	FD		0.0640	J
	NCL-49	Oct-20			0.0702	J
	NCL-49	Oct-20	FD		0.0750	J
	NCL-49	Apr-21			0.0315	J
	NCL-49	Apr-21	FD		0.0728	J
	NCL-49	Sep-21			<0.0247	
	NCL-49	Sep-21	FD		0.0925	JB
	NCL-49	Apr-22			0.0474	J
	NCL-49	Apr-22	FD		0.0337	J
	NCL-49	Oct-22			0.0734	J
	NCL-49	Oct-22	FD		0.0464	J
North Refinery	MW-23	Apr-19		15.0	13.4	
	MW-23	Oct-19		4.70 B	20.1	
	MW-23	Jun-20		8.73	13.0	
	MW-23	Oct-20		2.93	17.9	
	MW-29	Jun-20		0.0764 JB	2.75	
	MW-29	Oct-20		0.0886 J	2.28	
	MW-29	Apr-21		0.113	3.66	
	MW-29	Sep-21		0.0560 J	8.12	
	MW-29	Apr-22		<0.0314	4.53	
	MW-29	Oct-22		0.0889 J	4.28	
	MW-39	Apr-19		0.785	6.54	
	MW-39	Oct-19		0.736 B	5.64	
	MW-39	Jun-20		0.740	7.00	
	MW-39	Oct-20		0.412	6.28	
	MW-40	Apr-17		1.29	4.15	
	MW-40	Apr-18		1.18	2.45	
	MW-40	Apr-19		0.769	3.38	
	MW-40	Jun-20		0.500	2.45	
	MW-41	Apr-18		0.111	3.30	
	MW-41	Apr-19		0.229	6.47	
	MW-41	Jun-20		0.309 B	3.53	
	MW-41	Apr-21		0.245	2.32	
	MW-42	Apr-19		0.822	5.48	
	MW-42	Jun-20		1.26 J	4.95	
	MW-42	Apr-21		0.433	4.92	
	MW-42	Apr-22		0.323	3.00	
	MW-43	Apr-19		2.12	7.90	
	MW-43	Oct-19		32.6 B	13.5	
	MW-43	Jun-20		14.1	6.55	
	MW-43	Oct-20		34.2	7.74	
	MW-59	Apr-17		0.163	0.835	
	MW-59	Apr-18		0.232	0.576	
	MW-59	Apr-19		0.0605 JB	1.08	
	MW-59	Jun-20		0.302 B	2.97	
	MW-60	Jun-20		0.466	0.754	
	MW-60	Jun-20	FD	0.337	0.707	
	MW-60	Oct-20		0.528	1.03	
	MW-60	Oct-20	FD	0.587	0.930	
	MW-61	Jun-20		13.0 B	4.45	
	MW-61	Oct-20		11.7	4.58	
	MW-61	Apr-21		10.4	4.79	
	MW-61	Sep-21		11.2	6.38	
	MW-61	Apr-22		9.90	5.57	
	MW-61	Oct-22		9.03	4.44	
	MW-62	Jun-20		9.16	7.79	
	MW-62	Oct-20		7.35	7.46	
	MW-62	Sep-21		21.8	11.3	
	MW-62	Apr-22		14.9	7.53	
	MW-62	Oct-22		11.5	7.71	
	MW-62R	Oct-20		7.74	11.4	
	MW-62R	Apr-21		2.40	9.88	
	MW-62R	Apr-22		9.56	9.22	
	MW-67	Oct-17		0.649	8.48 J3J4	
	MW-67	Apr-18		1.53	4.25	
	MW-67	Oct-18		0.562	7.73	
	MW-67	Apr-19		0.868	9.31	
	MW-90	Jun-20		0.412	3.69	
	MW-90	Oct-20		0.498	3.99	
	MW-90	Apr-21		0.477	4.25	
	MW-90	Sep-21		0.384	3.31	
MW-90	Apr-22		0.399	3.92		
MW-90	Oct-22		0.396	4.23		
MW-91	Oct-18		16.7	11.8		
MW-91	Apr-19		13.8	15.8		
MW-91	Oct-19		34.8 B	10.8		
MW-91	Jun-20		36.2	11.5		
MW-92	Apr-16		5.50	20.4		
MW-92	Oct-16		6.05	22.8		
MW-93	Apr-17		3.73	7.89		
MW-93	Apr-18		3.59	5.05		
MW-93	Apr-19		2.82	7.92		
MW-93	Jun-20		6.28	8.54		
MW-94	Oct-15		6.12	25.6		
MW-94	Apr-16		7.91	8.69		
MW-94	Oct-16		6.83	9.76		
MW-94	Apr-17		10.2	9.96		

Appendix B, Table B.1 - Summary of Groundwater Analytical Data - Total Petroleum Hydrocarbons

2022 Annual Groundwater Monitoring Report
HF Sinclair Refining LLC, Artesia Refinery, Artesia, New Mexico

Analyte Group:				TPH		
Analyte:				GRO	DRO	DRO - EP
Units:				mg/L	mg/L	mg/L
CGWSL:				0.0101	0.0858	0.0167
CGWSL Source:				NMED TPH	NMED TPH	NMED TPH
Area	Well ID	Date	Dup			
North Refinery	MW-95	Apr-17		0.0826 J	6.96	
	MW-95	Apr-18		<0.0314	3.68	
	MW-95	Apr-19		<0.0314	7.34	
	MW-95	Jun-20		0.162 B	6.29	
	MW-96	Jun-20		30.4	8.28	
	MW-96	Oct-20		71.6	6.91	
	MW-96	Sep-21		14.5	8.33	
	MW-96	Apr-22		13.8	7.75	
	MW-96	Oct-22		24.9	8.20	
	MW-98	Jun-20		16.7	6.31	
	MW-98	Oct-20		22.0	5.31	
	MW-98	Apr-21		14.4	4.89	
	MW-98	Sep-21		14.1	6.01	
	MW-98	Apr-22		16.5	5.19	
	MW-98	Oct-22		7.46	5.13	
	MW-137	Oct-17		33.1	11.3	
	MW-137	Apr-18		26.6	9.60	
	MW-137	Oct-18		32.6	8.76	
	MW-137	Apr-19		33.2	9.76	
	MW-138	Oct-17		2.20	15.0	
	MW-138	Apr-18		2.44	6.05	
	MW-138	Oct-18		4.06	6.00	
	MW-138	Apr-19		4.17	6.67	
	RW-1R	Apr-16		2.13	8.54	
	RW-1	Apr-17		2.20	21.5	
	RW-1	Apr-18		6.05	8.92	
	RW-1	Apr-19		5.13	16.1	
	RW-2	Apr-15		18.3	19.7	
	RW-2R	Apr-16		20.8	17.3	
	RW-2	Apr-17		17.2	11.6	
	RW-2	Apr-18		20.5	8.31	
	RW-7	Apr-17		<0.0314	1.15	
	RW-7	Apr-18		0.177	11.3	
	RW-7	Apr-19		0.230	19.1	
	RW-7	Jun-20		0.334 JB	7.54	
	RW-8	Apr-15			7.30	
	RW-8	Apr-17			11.6	
	RW-9	Apr-19		1.67	4.33	
	RW-9	Jun-20		0.821	4.02	
	RW-9	Apr-21		0.903	3.37	
	RW-9	Apr-22		1.16	3.63	
	RW-10	Apr-18		0.380	2.81	
	RW-10	Apr-19		0.195	3.06	
	RW-10	Jun-20		0.219	3.33	
	RW-10	Apr-21		0.532	6.96	
	RW-16B	Apr-17			1.08	
	RW-16B	Apr-18			0.350	
	RW-16B	Apr-19			0.744	
RW-16B	Jun-20			2.12		
RW-17A	Apr-17		0.0622 J	2.57		
RW-17A	Apr-18		0.0927 J	1.57		
RW-17A	Apr-19		<0.0314	1.45		
RW-17A	Jun-20		0.0426 J	1.44		
North RO Field	MW-117	Jun-20		<0.0314	0.109	
	MW-117	Oct-20		<0.0314	0.0997 JB	
	MW-117	Apr-21		<0.0314	0.211	
	MW-117	Sep-21		0.0573 J	0.146	
	MW-117	Apr-22		<0.0314	0.247	
	MW-117	Oct-22		<0.0314	0.248	
	MW-118	Jun-20		<0.0314	<0.0247	
	MW-118	Oct-20		<0.0314	0.0817 JB	
	MW-118	Apr-21		<0.0314	0.0499 J	
	MW-118	Sep-21		<0.0314	<0.0247	
	MW-118	Apr-22		<0.0314	<0.0247	
	MW-118	Oct-22		<0.0314	<0.0247	
	MW-119	Jun-20		<0.0314	0.376	
	MW-119	Oct-20		<0.0314	0.215 B	
	MW-119	Apr-21		<0.0314	0.135	
	MW-119	Sep-21		<0.0314	0.0272 J	
	MW-119	Apr-22		<0.0314	<0.0247	
	MW-119	Oct-22		<0.0314	0.0534 J	
South Refinery	KWB-2R	Apr-17			1.35	
	KWB-2R	Oct-17			4.84	
	KWB-2R	Apr-19			0.887	
	KWB-2R	Oct-19			4.64	
	KWB-5	Oct-17			1.55	
	KWB-5	Apr-18			1.70	
	KWB-5	Oct-18			1.62	
	KWB-5	Apr-19			1.73	
	KWB-6	Apr-17			2.04	
	KWB-6	Oct-17			2.16	
	KWB-6	Apr-18			1.77	
	KWB-6	Oct-18			1.52	
	MW-28	Apr-19		5.37	8.80	
	MW-28	Oct-19		10.4 B	11.6	
	MW-28	Jun-20		3.94	3.91	
	MW-28	Oct-20		1.65	5.28	
	MW-48	Apr-18		45.6	6.50	
	MW-48	Oct-18		21.8	5.56	
	MW-48	Apr-19		17.7	6.53	
	MW-48	Oct-19		31.9 B	6.48	
	MW-50	Jun-20			0.522	
	MW-50	Oct-20			0.526	
	MW-50	Apr-21			0.396	
	MW-50	Sep-21			0.437	
	MW-50	Apr-22			0.506	
	MW-50	Oct-22			0.373	
	MW-52	Jun-20		<0.0314	0.294	
	MW-52	Oct-20		<0.0314	0.282	
	MW-52	Apr-21		<0.0314	0.270	
	MW-52	Sep-21		<0.0314	0.432	
	MW-52	Apr-22		<0.0314	0.332	
	MW-52	Oct-22		<0.0314	0.328	
	MW-64	Jun-20		102	8.18	
	MW-64	Oct-20		94.8	6.54	
	MW-64	Apr-21		100	6.54	
	MW-64	Sep-21		98.2	7.63	
	MW-64	Apr-22		110	5.63	
	MW-64	Oct-22		88.0	6.84	

Analyte Group:				TPH		
Analyte:				GRO	DRO	DRO - EP
Units:				mg/L	mg/L	mg/L
CGWSL:				0.0101	0.0858	0.0167
CGWSL Source:				NMED TPH	NMED TPH	NMED TPH
Area	Well ID	Date	Dup			
South Refinery	MW-65	Apr-18		15.5	5.05	
	MW-65	Oct-18		10.4	4.57	
	MW-65	Apr-19		16.9	4.86	
	MW-65	Oct-19		21.4 B	3.59	
	MW-66	Oct-19		7.15 B	2.77	
	MW-66	Jun-20		8.44	2.19	
	MW-66	Oct-20		4.41	3.36	
	MW-66	Apr-21		5.16	3.52	
	MW-99	Oct-18		11.9	2.23	
	MW-99	Apr-19		14.9	2.93	
	MW-99	Oct-19		5.02	2.30	
	MW-99	Jun-20		3.97	4.19	
	MW-101	Jun-20		0.553	4.85	
	MW-101	Oct-20		5.37	6.07	
	MW-101	Apr-21		2.91	4.65	
	MW-101	Sep-21		2.07	6.14	
	MW-101	Apr-22		1.08	6.81	
	MW-101	Oct-22		2.54	6.12	
	MW-102	Jun-20		27.1	5.50	
	MW-102	Oct-20		28.9	9.97	
	MW-102	Apr-21		19.7	12.6	
	MW-102	Sep-21		33.4	14.5	
	MW-102	Sep-21	FD	37.6	14.4	
	MW-102	Apr-22		43.0	6.24	
	MW-102	Apr-22	FD	41.3	8.66	
	MW-102	Oct-22		44.6	4.12	
	MW-102	Oct-22	FD	41.4	4.66	
	MW-103	Apr-19		6.55	7.87	
	MW-103	Jun-20		5.15	6.08	
	MW-103	Apr-21		4.84	6.58	
	MW-103	Apr-22		5.10	5.37	
	MW-104	Jun-20		1.44	1.14	
	MW-104	Jun-20	FD	1.22	1.03	
	MW-104	Oct-20		1.32	1.04	
	MW-104	Oct-20	FD	1.15	1.10	
	MW-104	Apr-21		1.06	0.762	
	MW-104	Apr-21	FD	1.07	0.800	
	MW-104	Sep-21		0.911	0.722	
	MW-104	Apr-22		0.813	0.888	
	MW-104	Oct-22		0.999	1.12	
	MW-105	Jun-20		25.6	9.03	
	MW-105	Oct-20		32.8	9.39	
	MW-105	Apr-21		20.2	12.8	
	MW-105	Apr-22		16.4	14.6	
	MW-105	Oct-22		5.46	2.36	
	MW-106	Oct-19		60.5 B	16.1	
	MW-106	Jun-20		28.4 B	14.6	
	MW-106	Oct-20		54.4	16.5	
	MW-106	Apr-21		24.4	26.3	
	MW-107	Oct-16		17.7	7.24	
	MW-107	Apr-17		6.67	7.91	
	MW-107	Apr-18		21.6	4.50	
	MW-107	Apr-19		23.3	7.93	
	MW-109	Jun-20		5.44	2.61	
	MW-109	Oct-20		3.77	2.33	
	MW-109	Apr-21		2.44	1.57	
	MW-109	Sep-21		5.69 J3	6.03	
	MW-109	Apr-22		3.31	2.47	
	MW-109	Oct-22		3.03	2.43	
	MW-110	Jun-20		0.587	0.696	
	MW-110	Oct-20		0.406	0.721	
	MW-110	Apr-21		0.639	0.999	
	MW-110	Sep-21		0.616	1.49	
	MW-110	Apr-22		1.89	1.91	
	MW-110	Oct-22		0.554	1.06	
	MW-139	Jun-20		0.411	1.55	
	MW-139	Oct-20		0.490	1.30	
	MW-139	Apr-21		0.383	1.67	
	MW-139	Sep-21		0.635	1.91	
	MW-139	Apr-22		0.313	0.880	
	MW-139	Oct-22		0.311	1.39	
	RA-313	Apr-19				
	RA-313	Jun-20				
	RA-313	Apr-21				
	RA-313	Apr-22				
	RW-4	Apr-18			1.02	
	RW-4	Apr-19			2.53	
	RW-4	Jun-20			1.63	
	RW-4	Apr-22			1.42	
	RW-5R	Apr-15			6.42	
	RW-5R	Apr-16			7.39	
	RW-6	Apr-15			11.4	
	RW-6R	Apr-16			4.20	
	RW-6	Apr-18			3.04	
	RW-6	Apr-19			3.23	
	RW-15C	Apr-17			9.74	
	RW-15C	Apr-18			9.27	
	RW-15C	Apr-19			11.7	
South RO Field	MW-114	Jun-20		<0.0314	0.436	
	MW-114	Oct-20		<0.0314	0.663	
	MW-114	Apr-21		<0.0314	0.736	
	MW-114	Sep-21		0.0655 J	0.502	
	MW-114	Apr-22		<0.0314	0.756	
	MW-114	Oct-22		0.0652 J	1.85	
	MW-115	Jun-20		<0.0314	0.0430 J	
	MW-115	Oct-20		<0.0314	0.222 B	
	MW-115	Apr-21		<0.0314	0.313	
	MW-115	Sep-21		<0.0314	0.173	
	MW-115	Apr-22		0.0420 J	0.460	
	MW-115	Oct-22		<0.0314	0.621	
MW-116	Jun-					

Appendix B, Table B.1 - Summary of Groundwater Analytical Data - Total Petroleum Hydrocarbons

2022 Annual Groundwater Monitoring Report
HF Sinclair Refining LLC, Artesia Refinery, Artesia, New Mexico

Analyte Group:				TPH		
Analyte:				GRO	DRO	DRO - EP
Units:				mg/L	mg/L	mg/L
CGWSL:				0.0101	0.0858	0.0167
CGWSL Source:				NMED TPH	NMED TPH	NMED TPH
Area	Well ID	Date	Dup			
TEL	MW-49	Jun-20		5.45	4.96	
	MW-49	Oct-20		5.05	5.44	
	MW-49	Apr-21		2.56	6.65	
	MW-49	Sep-21		2.57	6.81	
	MW-49	Apr-22		4.35	6.29	
	MW-49	Oct-22		2.84	4.55	
	TEL-1	Oct-18		0.381	8.36	
	TEL-1	Apr-19		0.357	8.30	
	TEL-1	Oct-19		0.736 JB	8.74	
	TEL-1	Jun-20		0.366 J	5.74	
	TEL-2	Oct-18		5.19	14.8	
	TEL-2	Apr-19		4.27	15.8	
	TEL-2	Oct-19		3.00 B	13.5	
	TEL-2	Jun-20		1.89	8.16	
	TEL-3	Apr-18		2.05	7.42	
	TEL-3	Apr-19		0.999	4.14	
	TEL-3	Oct-19		1.54 B	4.82	
	TEL-3	Oct-20		2.28	6.36	
	TEL-4	Jun-20		0.456 J	5.73	
	TEL-4	Jun-20	FD	0.976 J	5.68	
	TEL-4	Oct-20		0.837 J	5.91	
	TEL-4	Oct-20	FD	1.07	6.12	
	TEL-4	Apr-21		0.834	6.87	
	TEL-4	Apr-21	FD	0.829	6.87	
	TEL-4	Sep-21		0.847	6.36	
	TEL-4	Sep-21	FD	0.821	6.37	
	TEL-4	Apr-22		0.540	2.74	
	TEL-4	Apr-22	FD	0.292	3.82	
	TEL-4	Oct-22		0.479	3.45	
	TEL-4	Oct-22	FD	0.512	4.52	
Three Mile Ditch	MW-8	Apr-19		0.127 B	0.0861 J	
	MW-8	Jun-20		0.300	0.0458 J	
	MW-8	Apr-21		0.107	0.0902 J	
	MW-8	Apr-22		0.0546 J	0.155	
	MW-16	Apr-19			0.156	
	MW-16	Jun-20			0.120	
	MW-16	Apr-21			0.138	
	MW-16	Apr-22			0.0724 J	
	MW-20	Apr-19			0.0561 J	
	MW-20	Jun-20			<0.0247	
	MW-20	Apr-21			0.141	
	MW-20	Apr-22			0.0979 J	
	MW-21	Jun-20		0.284	0.149	
	MW-21	Oct-20		0.492	0.163	
	MW-21	Apr-21		0.0899 J	0.354	
	MW-21	Sep-21		0.100 J	0.174	
	MW-21	Apr-22		<0.0314	0.305	
	MW-21	Oct-22		0.180	0.0743 J	
	MW-25	Apr-19			0.0401 J	
	MW-25	Jun-20			<0.0247	
	MW-25	Apr-21			0.0537 J	
	MW-25	Apr-22			0.233	
	MW-26	Apr-19			0.0502 J	
	MW-26	Jun-20			0.0276 J	
	MW-26	Apr-21			0.0537 J	
	MW-26	Apr-22			<0.0247	
	MW-27	Apr-19			0.0517 J	
	MW-27	Jun-20			<0.0247	
	MW-27	Apr-21			0.0659 J	
	MW-27	Apr-22			0.0950 J	
	MW-46R	Jun-20			0.0408 J	
	MW-46R	Oct-20			0.111	
	MW-46R	Apr-21			0.217	
	MW-46R	Sep-21			0.209	
	MW-46R	Apr-22			0.0424 J	
	MW-46R	Oct-22			0.157	
	MW-68	Apr-19			0.0267 J	
	MW-68	Jun-20			0.0250 J	
	MW-68	Apr-21			0.0962 J	
	MW-68	Apr-22			0.0940 J	
	MW-71	Apr-19			<0.0247	
	MW-71	Jun-20			0.0323 J	
	MW-71	Apr-21			0.0936 J	
	MW-71	Apr-22			0.0860 J	
	MW-89	Apr-19			0.611	
	MW-89	Jun-20			0.218	
	MW-89	Apr-21			0.175	
	MW-89	Apr-22			0.248	

Analyte Group:				TPH		
Analyte:				GRO	DRO	DRO - EP
Units:				mg/L	mg/L	mg/L
CGWSL:				0.0101	0.0858	0.0167
CGWSL Source:				NMED TPH	NMED TPH	NMED TPH
Area	Well ID	Date	Dup			
Three Mile Ditch	NP-1	Jun-20				
	NP-1	Oct-20				
	NP-1	Apr-21				
	NP-1	Sep-21				
	NP-1	Apr-22				
	NP-1	Oct-22				
	NP-6	Apr-15				
	NP-6	Apr-17				
	NP-6	Apr-19				
	NP-6	Apr-21				
Upgradient	UG-1	Apr-19		<0.0314	<0.0247	
	UG-1	Jun-20		<0.0314	<0.0247	
	UG-1	Apr-21		<0.0314	0.0579 J	
	UG-1	Apr-22		<0.0314	<0.0247	
	UG-2	Apr-19		<0.0314	0.0647 J	
	UG-2	Jun-20		<0.0314	<0.0247	
	UG-2	Apr-21		<0.0314	0.0316 J	
	UG-2	Apr-22		<0.0314	<0.0247	
	UG-3R	Apr-19		<0.0314	<0.0247	
	UG-3R	Jun-20		0.0421 J	0.0478 J	
	UG-3R	Apr-21		<0.0314	0.0931 J	
	UG-3R	Apr-22		<0.0314	0.0857 J	
	UG-4	Apr-19		<0.0314	<0.0247	
	UG-4	Jun-20		<0.0314	<0.0247	
	UG-4	Apr-21		<0.0314	0.0643 J	
	UG-4	Apr-22		<0.0314	<0.0247	

Definitions

X	Reported concentration, X, exceeds the CGWSL.
X	Analyte detected above the detection limit at a concentration equal to X.
<x	Analyte not detected at detection limit equal to x.
<x	Analyte not detected at detection limit equal to x, but x exceeds the CGWSL.
---	No applicable CGWSL.
	Blank cell indicates a sample was collected from the well during the indicated sampling event, but the analyte was not analyzed.

Abbreviations

CGWSL	Critical Groundwater Screening Level (see Table 3)
CGWSL Source	Source for CGWSL value (see Table 3)
DRO	Diesel Range Organics
DRO-EP	Diesel Range Organics data from wells located in the Evaporation Ponds area
Dup	Duplicate sample
FD	Field duplicate sample
GRO	Gasoline Range Organics
mg/L	Milligrams per Liter
TPH	Total Petroleum Hydrocarbons
NMED TPH	NMED Risk Assessment Guidance for Site Investigations and Remediation, November 2022, Table 6-4, TPH Groundwater Screening Level.

Lab Footnote

B	Analyte was also detected in the associated method blank.
J	Indicates an estimated value.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
Q	Sample was prepared and/or analyzed past recommended holding time.
V3	Internal standard exhibited poor recovery due to sample matrix interference; analytical result biased high.

Appendix B, Table B.2 - Summary of Groundwater Analytical Data - Total Metals

2022 Annual Groundwater Monitoring Report

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Analyte Group:				Total Metals													
Analyte:				Arsenic	Barium	Boron	Cadmium	Cobalt	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
CAS:				7440-38-2	7440-39-3	7440-42-8	7440-43-9	7440-48-4	7440-47-3	7439-89-6	7439-92-1	7439-96-5	7439-97-6	7440-02-0	7782-49-2	7440-61-1	7440-62-2
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				0.0100	2.00	0.750	0.00500	0.0500	0.0500	1.00	0.0150	0.200	0.00200	0.200	0.0500	0.0300	0.0631
CGWSL Source:				WQCC HH	WQCC HH	WQCCIrr	WQCCIrr	WQCC HH	WQCC HH	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCCIrr	WQCC HH	WQCC HH	NMED TW
Area	Well ID	Date	Dup														
Three Mile Ditch	NP-1	Jun-20															
	NP-1	Oct-20															
	NP-1	Apr-21															
	NP-1	Sep-21															
	NP-1	Apr-22															
	NP-1	Oct-22															
	NP-6	Apr-15															
	NP-6	Apr-17															
	NP-6	Apr-19															
	NP-6	Apr-21															
Upgradient	UG-1	Apr-19		0.00158 J	0.0165	0.727	<0.000160	0.000332 J	0.000624 JB	<0.0150	<0.000240	0.00109 J	<0.0000490	0.00226 B	0.0149	0.0353	0.0147
	UG-1	Jun-20		0.00139 J	0.0137 J	0.691	<0.000478	<0.000477	<0.00149	<0.0489	<0.00249	<0.00132	<0.000100	0.000984 J	0.0131	0.0385	0.0133
	UG-1	Apr-21		0.00134 J	0.0137 J	0.741	<0.000150	0.000148 J	0.00204 B	<0.0281	<0.000849	0.00184 J	<0.000100	0.00238	0.0167	0.0388	0.0140
	UG-1	Apr-22		0.00162 J	0.0132	0.733	<0.000150	0.0000957 J	<0.00124	<0.0281	<0.000849	<0.000704	<0.000100	<0.000816	0.0130	0.0431	0.0140
	UG-2	Apr-19		0.00227	0.0183	0.299	0.000295 J	0.000357 J	0.000732 JB	0.0286 J	0.00107 JB	0.0129	<0.0000490	0.00316 B	0.00766	0.0160	0.0174
	UG-2	Jun-20		0.00253	0.0141 J	0.274	<0.000478	<0.000477	<0.00149	<0.0489	<0.00249	0.00395 J	<0.000100	0.00250	0.00616	0.0161 J	0.0185
	UG-2	Apr-21		0.00224	0.0160 J	0.265	<0.000150	0.000107 J	0.00271 B	0.0303 J	<0.000849	0.00420 J	<0.000100	0.00295	0.00599	0.0161 J	0.0200
	UG-2	Apr-22		0.00238	0.0152	0.267	<0.000150	0.0000828 J	<0.00124	<0.0281	<0.000849	0.00569 B	<0.000100	0.00183 J	0.00570	0.0156	0.0198
	UG-3R	Apr-19		0.00164 J	0.0183	0.223	<0.000160	<0.000260	0.000713 JB	<0.0150	<0.000240	0.00132 J	<0.0000490	0.000581 JB	0.00266	0.0160	0.00947
	UG-3R	Jun-20		0.00126 J	0.0205	0.173 J	<0.000478	<0.000477	<0.00149	<0.0489	<0.00249	<0.00132	<0.000100	<0.000952	0.00389	0.0167 J	0.00867
	UG-3R	Apr-21		0.00140 J	0.0221	0.169 J	<0.000150	0.000113 J	0.00429 B	0.0430 J	0.000853 J	0.00180 J	<0.000100	0.00108 J	0.00420	0.0181 J	0.00939
	UG-3R	Apr-22		0.00149 J	0.0191	0.183 J	<0.000150	0.0000759 J	<0.00124	<0.0281	<0.000849	0.000775 JB	<0.000100	<0.000816	0.00472	0.0273	0.00900
	UG-4	Apr-19		0.00128 J	0.0171	1.07	<0.000160	<0.000260	<0.000540	0.0596 J	<0.000240	0.00792	<0.0000490	0.000696 JB	0.0167	0.0379	0.00813
	UG-4	Jun-20		0.00105 J	0.0164 J	1.02	<0.000478	<0.000477	<0.00149	<0.0489	<0.00249	0.00403 J	<0.000100	0.00177 J	0.00925	0.0357	0.00757
	UG-4	Apr-21		0.00146 J	0.0150 J	0.983	<0.000150	0.000184 J	<0.00124	0.0350 J	<0.000849	0.00426 J	<0.000100	<0.000816	0.00959	0.0356	0.00929
	UG-4	Apr-22		0.00147 J	0.0229	0.749	<0.000150	0.000862 J	0.00295	0.200	<0.000849	0.0492	<0.000100	0.00120 J	0.0119	0.0334	0.00923

Definitions	
X	Reported concentration, X, exceeds the CGWSL.
X	Analyte detected above the detection limit at a concentration equal to X.
<x	Analyte not detected at detection limit equal to x.
<x	Analyte not detected at detection limit equal to x, but x exceeds the CGWSL.
	Blank cell indicates a sample was collected from the well during the indicated sampling event, but the analyte was not analyzed.

Abbreviations	
CGWSL	Critical Groundwater Screening Level (see Table 3)
CGWSL Source	Source for CGWSL value (see Table 3)
Dup	Duplicate sample
FD	Field duplicate sample
mg/L	Milligrams per Liter
NMED TW	NMED Risk Assessment Guidance for Site Investigations and Remediation, November 2022, Table A-1, Tap Water Screening Level
WQCC Dom	NMED Groundwater standard for domestic exposure, 20.6.2.3103.B NMAC
WQCC HH	NMED Groundwater standard for human health exposure, 20.6.2.3103.A NMAC
WQCC Irr	NMED Groundwater standard for irrigation exposure, 20.6.2.3103.C NMAC

Lab Footnote	
B	Analyte was also detected in the associated method blank.
J	Indicates an estimated value.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Appendix B, Table B.3 - Summary of Groundwater Analytical Data - Dissolved Metals

2022 Annual Groundwater Monitoring Report

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Analyte Group:				Dissolved Metals														
				Analyte:														
				Arsenic	Barium	Boron	Cadmium	Cobalt	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium	
				CAS:	7440-38-2	7440-39-3	7440-42-8	7440-43-9	7440-48-4	7440-47-3	7439-89-6	7439-92-1	7439-96-5	7439-97-6	7440-02-0	7782-49-2	7440-61-1	7440-62-2
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				0.0100	2.00	0.750	0.00500	0.0500	0.0500	1.00	0.0150	0.200	0.00200	0.200	0.0500	0.0300	0.0631	
CGWSL Source:				WQCC HH	WQCC HH	WQCC Irr	WQCC Irr	WQCC HH	WQCC HH	WQCC Dom	WQCC HH	WQCC Dom	WQCC HH	WQCC Irr	WQCC HH	WQCC HH	NMED TW	
Area	Well ID	Date	Dup															
Three Mile Ditch	NP-1	Jun-20																
	NP-1	Oct-20																
	NP-1	Apr-21																
	NP-1	Sep-21																
	NP-1	Apr-22																
	NP-1	Oct-22																
	NP-6	Apr-15																
	NP-6	Apr-17																
	NP-6	Apr-19																
NP-6	Apr-21																	
Upgradient	UG-1	Apr-19		0.00123 J	0.0149	0.794	<0.000160	<0.000540	0.000404 J	<0.0150	0.000301 JB	0.00124 J	<0.0000490	0.00167 J	0.0125	0.0324	0.0133	
	UG-1	Jun-20		0.00113 J	0.0141 J	0.718	<0.000478	<0.00149	<0.000477	<0.0489	<0.00249	0.00154 J	<0.000100	0.00119 J	0.0153	0.0390	0.0139	
	UG-1	Apr-21		0.00143 J	0.0130 J	0.791	<0.000150	0.00150 JB	0.000180 J	<0.0281	0.00193 J	0.00523	<0.000100	0.00323 B	0.0177	0.0377	0.0149	
	UG-1	Apr-22		0.00151 J	0.0136	0.718	<0.000150	<0.00124	0.000110 J	<0.0281	<0.000849	<0.000704	<0.000100	0.00135 J	0.0130	0.0442	0.0148	
	UG-2	Apr-19		0.00200	0.0156	0.280	<0.000160	<0.000540	<0.000260	<0.0150	<0.000240	0.000681 J	<0.0000490	0.00302	0.00626	0.0147	0.0152	
	UG-2	Jun-20		0.00241	0.0140 J	0.296	<0.000478	<0.00149	<0.000477	<0.0489	<0.00249	0.00441 J	<0.000100	0.00278	0.00842	0.0166 J	0.0188	
	UG-2	Apr-21		0.00215	0.0147 J	0.301	<0.000150	<0.00124	0.0000955 J	0.0679 J	0.00170 J	0.0105	<0.000100	0.00440 B	0.00700	0.0157 J	0.0196	
	UG-2	Apr-22		0.00253	0.0156	0.267	<0.000150	<0.00124	0.0000840 J	<0.0281	<0.000849	0.00188 J	<0.000100	0.00272	0.00581	0.0158	0.0200	
	UG-3R	Apr-19		0.00143 J	0.0165	0.332	<0.000160	<0.000540	<0.000260	<0.0150	<0.000240	0.000430 J	<0.0000490	0.000953 J	0.00264	0.0149	0.00850	
	UG-3R	Jun-20		0.00132 J	0.0200	0.184 J	<0.000478	0.00240	<0.000477	<0.0489	<0.00249	0.00488 J	<0.000100	0.00177 J	0.00421	0.0166 J	0.00878	
	UG-3R	Apr-21		0.00138 J	0.0236	0.187 J	<0.000150	<0.00124	0.000116 J	0.0311 J	0.00106 J	0.00707	<0.000100	0.00278 B	0.00450	0.0175 J	0.00934	
	UG-3R	Apr-22		0.00145 J	0.0197	0.182 J	<0.000150	<0.00124	0.000106 J	<0.0281	<0.000849	0.00149 J	<0.000100	0.00235	0.00448	0.0278	0.00995	
	UG-4	Apr-19		0.000962 J	0.0165	1.14	<0.000160	<0.000540	<0.000260	<0.0150	<0.000240	0.000298 J	<0.0000490	0.00109 J	0.0169	0.0361	0.00723	
	UG-4	Jun-20		0.00112 J	0.0156 J	1.07	<0.000478	<0.00149	<0.000477	<0.0489	<0.00249	0.00149 J	<0.000100	0.00108 J	0.0104	0.0359	0.00739	
UG-4	Apr-21		0.00130 J	0.0140 J	1.06	<0.000150	<0.00124	0.000211 J	<0.0281	<0.000849	0.000787 J	<0.000100	0.000829 J	0.00987	0.0358	0.00765		
UG-4	Apr-22		0.00137 J	0.0188	0.738	<0.000150	<0.00124	0.000263 J	0.0356 J	<0.000849	0.00322 J	<0.000100	0.00137 J	0.0134	0.0324	0.00878		

Definitions

X	Reported concentration, X, exceeds the CGWSL.
X	Analyte detected above the detection limit at a concentration equal to X.
<x	Analyte not detected at detection limit equal to x.
<x	Analyte not detected at detection limit equal to x, but x exceeds the CGWSL.
	Blank cell indicates a sample was collected from the well during the indicated sampling event, but the analyte was not analyzed.

Abbreviations

CGWSL	Critical Groundwater Screening Level (see Table 3)
CGWSL Source	Source for CGWSL value (see Table 3)
Dup	Duplicate sample
FD	Field duplicate sample
mg/L	Milligrams per Liter
NMED TW	NMED Risk Assessment Guidance for Site Investigations and Remediation, November 2022, Table A-1, Tap Water Screening Level
WQCC Dom	NMED Groundwater standard for domestic exposure, 20.6.2.3103.B NMAC
WQCC HH	NMED Groundwater standard for human health exposure, 20.6.2.3103.A NMAC
WQCC Irr	NMED Groundwater standard for irrigation exposure, 20.6.2.3103.C NMAC

Lab Footnote

B	Analyte was also detected in the associated method blank.
J	Indicates an estimated value.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Appendix B, Table B.5 - Summary of Groundwater Analytical Data - Water Quality and Cyanide
2022 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Analyte Group:				Water Quality Parameters								Cyanide	
				Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite	Cyanide	
				7440-70-2	16887-00-6	16984-48-8	7440-09-7	7440-23-5	14808-79-8	TDS	NO ₃ NO ₂	57-12-5	
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
				CGWSL:	--	250	1.60	--	--	600	1000	10.0	0.200
CGWSL Source:				--	WQCC Dom	WQCC HH	--	--	WQCC Dom	WQCC Dom	WQCC HH	WQCC HH	
Area	Well ID	Date	Dup										
North Refinery	MW-90	Jun-20		331	173	2.25	1.13 J	142	1790	3120	<2.50		
	MW-90	Oct-20		293	210	1.05	0.913 J	171	1280	2910	<0.0500		
	MW-90	Apr-21		314	230	1.06	0.760 J	170	1250	2960	<0.0500		
	MW-90	Sep-21		452	163	3.03	1.75 J	133	2330	4090	<1.00		
	MW-90	Apr-22		290	265	1.78	0.993 J	177	1570	3020	<1.00		
	MW-90	Oct-22		319	262	1.89	1.09 J	185	1430	2620	<2.50		
	MW-91	Oct-18		433	221	1.27	0.639 J	35.2	966	2820	<0.985		
	MW-91	Apr-19		460	295	1.27	0.468 J	38.9	915	3290	<1.97		
	MW-91	Oct-19		451	422	1.29	0.520 J	39.6	1020	2430	<0.197		
	MW-91	Jun-20		478	501	1.19	<0.534	36.7	813	2830	<10.0		
	MW-92	Apr-16		130 O1	415	1.30	1.73 J	450 O1V	24.1	2310	0.602 J		
	MW-92	Oct-16		134	539	1.63	2.02	454	14.6	2150	<0.985		
	MW-93	Apr-17		489	192	2.38	2.97	167	1430	2930	<0.197		
	MW-93	Apr-18		537	193	2.39	3.55	191	1400	2760	<0.197		
	MW-93	Apr-19		505	214	2.09	3.76	195	1400	2810	0.0220 J		
	MW-93	Jun-20		491	233	1.88	3.11	163	1070	2820	<2.50		
	MW-94	Oct-15		109	245	1.01	0.224 J	355	75.8	2530	<0.197		
	MW-94	Apr-16		124	217	1.02	0.189 J	532	199	2980	<0.197		
	MW-94	Oct-16		137	172	1.04	0.467 J	319	175	2530	<0.0197		
	MW-94	Apr-17		95.6	196	0.874	0.331 J	427	85.7	2660	<0.197		
	MW-95	Apr-17		203 V	349	0.868	0.730 J	194 V	420	1710	<0.197		
	MW-95	Apr-18		229	258	0.884	0.602 J	163	471	1770	<0.0197		
	MW-95	Apr-19		246	264	0.830	0.472 J	172	561	2020	<0.0197		
	MW-95	Jun-20		250	300	0.739	<0.534	151	682	2020	<0.0500		
	MW-96	Jun-20		147	131	1.32	1.52 J	200	95.2	1320	<2.50		
	MW-96	Oct-20		142	128	1.15	1.17 J	218	69.3 P1	1420	<0.0500		
	MW-96	Sep-21		207	129	1.37	1.29 J	193	422	1800	<0.500		
	MW-96	Apr-22		133	149	1.27	1.16 J	195	104	1430 Q	<1.00		
	MW-96	Oct-22		167	154	1.41	1.10 J	205	191	1340	<2.50		
	MW-98	Jun-20		561	239	1.69	<0.534	129	1590	3280	<5.00		
	MW-98	Oct-20		515	195	1.73	<0.534	125	1300	3060	<0.0500		
	MW-98	Apr-21		580	195	1.58	0.219 J	166	1390	3380	<50.0		
	MW-98	Sep-21		510	177	1.56	0.284 J	175	1320	3220	<2.50		
	MW-98	Apr-22		484	187 B	1.70	0.222 J	156	1590	3190 Q	<2.50		
	MW-98	Oct-22		536	90.4	2.14	0.323 J	145	1410	2190	<2.50		
	MW-137	Oct-17		141	548	1.11	0.979 JB	759	683	2910	<0.394	<0.00180	
	MW-137	Apr-18		143	446	1.41	1.23	955	713	3420	<0.985	<0.180	
	MW-137	Oct-18		133	406	0.873	0.971 J	632	384	2730	<1.97	<0.180	
	MW-137	Apr-19		142	407	1.28	1.14	845	607	3380	<1.97	<0.0900	
	MW-138	Oct-17		124	453	1.06	1.50 B	401	27.9	2100	<0.0985	<0.00180	
	MW-138	Apr-18		130	453	0.874	1.58	436	26.8	1910	<0.0197	<0.00180	
	MW-138	Oct-18		122	408	0.802	1.60	362	30.3	1510	<0.0197	<0.00180	
	MW-138	Apr-19		130	435	0.966	1.62	402	41.4	1730	<0.0197	<0.00180	
	RW-1R	Apr-16		505	180	1.38	6.39	203	1500	2990	0.422 J		
	RW-1	Apr-17		558	246	1.41	7.37	268	1860	3690	<0.197		
	RW-1	Apr-18		363	255	0.913	2.24	247	1030	1810	<1.97		
	RW-1	Apr-19		337	286	0.866	1.87	266	939	2690	<1.97		
	RW-2	Apr-15		726	365	1.75	5.55 J	383	3510	5310	<0.200		
	RW-2R	Apr-16		875	430	2.09	5.80	396	2200	3810	0.281 J		
	RW-2	Apr-17		519	251	2.35	2.86	261	1200	3030	<0.197		
RW-2	Apr-18		402	317	1.75	2.25	335	731	2600	<0.394			
RW-7	Apr-17		266	204	0.513	0.922 J	105	693	1740	<0.197			
RW-7	Apr-18		295	217	1.22	2.54	149	475	1820	<0.985			
RW-7	Apr-19		247	239	1.05	1.63	150	426	1830	<0.197			
RW-7	Jun-20		184	218	0.995	0.651 J	151	162	1530	<2.50			
RW-8	Apr-15		227	115	0.801	0.353 J	209	473	1600	<0.200			
RW-8	Apr-17		218	163	0.731	0.360 J	161	665	1820	<0.197			
RW-9	Apr-19		309	399	1.46	1.91	356	1160	3100	<1.97			
RW-9	Jun-20		293	469	1.21	1.51 J	425	1140	3330	<2.50			
RW-9	Apr-21		300	556	1.22	1.27 J	439	1180	3560	<0.500			
RW-9	Apr-22		294	554	0.895	1.12 J	432	901	2980	<2.50			
RW-10	Apr-18		499	131	3.41	3.49	143	1530	2670	<0.985			
RW-10	Apr-19		572	65.9	3.66	3.68	102	1470	2540 J3	<0.197			
RW-10	Jun-20		485	92.9	3.87	4.43	151	1450	2520	<0.0500			
RW-10	Apr-21		353	193	3.26	3.53	312	1110	2730	0.0679 J			
RW-16B	Apr-17		499	291	4.90	0.832 J	372	2740	5030	2.20			
RW-16B	Apr-18		546	43.5	4.89	0.788 J	259	2660	4240	0.894 J6			
RW-16B	Apr-19		540	83.0	4.48	0.677 J	333	2690	4440	1.47 J3J6			
RW-16B	Jun-20		516	181	3.78	1.65 J	492	2970	4720	<0.0500			
RW-17A	Apr-17		568	398	2.61	4.02	306	2950	4820	3.33			
RW-17A	Apr-18		635	358	2.31	3.87	345	3080	4430	0.0920 J			
RW-17A	Apr-19		563	398	2.64	2.97	286	3290	5430	<0.0197			
RW-17A	Jun-20		554	389	2.58	4.62	306	2940	5730	0.386			
North RO Field	MW-117	Jun-20		578	299	3.43	6.39	129	2300	3640	2.46		
	MW-117	Oct-20		587	271	3.25	6.68	133	2030	3870 J3	4.05		
	MW-117	Apr-21		663	304	2.89	5.49	147	2290	4080	5.55		
	MW-117	Sep-21		614	325 B	2.66	5.98	144	1910	4020	1.76		
	MW-117	Apr-22		571	365	3.03	5.39	169	2140	3830	1.82		
	MW-117	Oct-22		507	248	2.89	4.52	163	1730	2960	0.527		
	MW-118	Jun-20		586	290	5.20	3.45	171	2950	4620	2.43		
	MW-118	Oct-20		558	262	5.06	3.07 B	178	2600	4640	2.03		
	MW-118	Apr-21		575	241	4.51	2.85	192	2880	4840	2.29		
	MW-118	Sep-21		568	253 B	4.12	2.38	186	2720	4770	2.06		
	MW-118	Apr-22		562	265	4.40	2.09	186	3180	4750	2.25		
	MW-118	Oct-22		588	245	4.36	2.04	202	2630	4440	1.94		
	MW-119	Jun-20		629	345	1.66	0.637 J	202	2990	4500	0.281		
	MW-119	Oct-20		641	298	1.39	0.832 JB	200 V	2490	4420	0.106		
	MW-119	Apr-21		620	278	1.49	0.690 J	189 V	2580	4400	0.237		
MW-119	Sep-21		607	282 B	1.70	0.786 J	192	2320	4360	0.314			
MW-119	Apr-22		585	294	1.88	0.684 J	186	2730	3520	1.43			
MW-119	Oct-22		582	263	1.69	0.724 J	183	2140	3930	0.107			
South Refinery	KWB-2R	Apr-17											

Appendix B, Table B.5 - Summary of Groundwater Analytical Data - Water Quality and Cyanide
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HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Analyte Group:				Water Quality Parameters								Cyanide
				Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite	Cyanide
Analyte:				7440-70-2	16887-00-6	16984-48-8	7440-09-7	7440-23-5	14808-79-8	TDS	NO ₃ /NO ₂	57-12-5
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				--	250	1.60	--	--	600	1000	10.0	0.200
CGWSL Source:				--	WQCC Dom	WQCC HH	--	--	WQCC Dom	WQCC Dom	WQCC HH	WQCC HH
Area	Well ID	Date	Dup									
South Refinery	MW-28	Apr-19		361	138	1.14	0.964 J	112	1030	2920	<0.985	<0.0180
	MW-28	Oct-19		360	143	1.60	0.571 JB	101	1630	2860	<0.985	<0.0180 J4
	MW-28	Jun-20		285	149	1.10	4.23	109	1310	2610	<0.250	<0.0360
	MW-28	Oct-20		281	132	1.02	4.03	114	1140	2670	<0.0500	<0.00180
	MW-48	Apr-18		200	689	1.90	0.776 J	269	9.52	2490	0.0860 J	
	MW-48	Oct-18		172 V	498	1.20	0.863 J	293 V	125	1730 J4	<0.394	
	MW-48	Apr-19		168	179	1.82	1.16	290	1210	1630 J4	<0.394	
	MW-48	Oct-19		159	429	1.08	1.12	297	85.7	1580 J3	<0.985	
	MW-50	Jun-20		495	418	2.92	4.42	577	3370	5550 Q	74.6	
	MW-50	Oct-20		490	390	3.64	4.05	682	4100	7810	78.5 V	
	MW-50	Apr-21		387	191	1.47	2.42	242	1650	3370	0.0950 J	
	MW-50	Sep-21		513	477	5.41	9.75	851	4950	9740	266	
	MW-50	Apr-22		376	281	2.99	3.59	456	3250	5260 Q	6.75	
	MW-50	Oct-22		506	313	3.94	3.65	574	3930	5930	50.8	
	MW-52	Jun-20		239	195	1.71	<0.534	340	1140	2810	13.0	<0.00180
	MW-52	Oct-20		223	195	1.62	<0.534	332	1110	2720	15.3 V	<0.00180
	MW-52	Apr-21		212	166 B	1.54	0.319 J	358	958	2530	11.0	<0.00180
	MW-52	Sep-21		211	179	1.53	0.240 J	308	1050	2560	12.0	<0.00180
	MW-52	Apr-22		187	176	1.81	0.373 J	309	994	2450	19.2	<0.00180
	MW-52	Oct-22		198	182	1.99	0.271 J	338	1130	2040	11.1	<0.00180
	MW-64	Jun-20		90.7	324	0.993	0.655 J	350	5.03	1620	<0.100	
	MW-64	Oct-20		88.5	310	0.710	0.586 JB	343	8.17	1590	<0.0500 J3J6	
	MW-64	Apr-21		93.9	275	0.750	0.581 J	350	23.4	1580	<0.0500	
	MW-64	Sep-21		88.9	286 B	0.878	0.536 J	329	9.58	1600	<2.50	
	MW-64	Apr-22		79.2	295	0.619	0.571 J	318	1.81 J	1310	<0.500	
	MW-64	Oct-22		87.2	294	0.723	0.537 J	338	3.00 J	1500	<0.250	
	MW-65	Apr-18		132	306	1.33	0.732 J	264	10.2	1340	<0.0985	
	MW-65	Oct-18		127	284	1.12	0.823 JB	229	4.80 J	1280	<0.0197 J6	
	MW-65	Apr-19		155	284	0.967	0.532 JB	262	1.23 J	1310	<0.0197	
	MW-65	Oct-19		113	234	1.23	0.466 J	223	5.53 B	1080	<0.0197	
	MW-66	Oct-19		121	168	1.04	1.18	131	6.99	912	<0.0197 J6	<0.00180
	MW-66	Jun-20		136	188	1.13	0.842 J	155	1.16 J	1070	0.0979 J	<0.00180
	MW-66	Oct-20		140	189	1.12	1.71 JB	145	6.68	1060	<0.0500	<0.00180
	MW-66	Apr-21		176	257	1.26	2.12	205	1.59 J	1230	0.0769 J	<0.00180
	MW-99	Oct-18		162	254	0.612	0.792 J	212	124	1420	<0.394	
	MW-99	Apr-19		184	225	0.572	1.31	214	145	1390	<0.394	
	MW-99	Oct-19		109	66.7	0.517	4.66	58.1	81.1	547	0.0300 J	
	MW-99	Jun-20		138	73.2	0.323	7.77	60.7	109	727	<0.0500	
	MW-101	Jun-20		183	202	0.965	0.556 J	144	183	1330	<0.0500	
	MW-101	Oct-20		207	185	0.915	0.881 JB	137	234	1410	<0.0500	
	MW-101	Apr-21		178	190	0.839	0.652 J	149	150	1250	0.112	
	MW-101	Sep-21		173	195	0.918	0.934 J	138	200	1270	<2.50	
	MW-101	Apr-22		164	190	0.931	0.762 J	135	125	1210	<0.500	
	MW-101	Oct-22		168	177	1.10	0.715 J	148	114	1130 J3	<0.250	
	MW-102	Jun-20		84.2	285	0.984	<0.534	446	21.2	1610	<0.0500	
	MW-102	Oct-20		91.9	282	0.812	<0.534	431	5.16	1610	<0.0500	
	MW-102	Apr-21		98.1	242 B	0.823	0.435 J	430	39.6	1570	0.0911 J	
	MW-102	Sep-21		118	226 B	0.899	0.532 J	410	55.5	1650	<2.50	
	MW-102	Sep-21	FD	117	253	1.05	0.601 J	423	55.0	1620	<2.50	
	MW-102	Apr-22		77.1	153	0.815	0.289 J	357	23.3	1390	<2.50	
	MW-102	Apr-22	FD	78.1	143	0.812	0.297 J	361	23.5	1350	<2.50	
	MW-102	Oct-22		98.3	131	1.14 J	0.279 J	358	84.5	1280	<2.50	
	MW-102	Oct-22	FD	99.2	134	1.15 J	0.291 J	366	97.1	1380	<2.50	
	MW-103	Apr-19		91.2	4550	5.85	1.16	3990	133	9260	<0.0197	
	MW-103	Jun-20		120	4480	4.50	1.21 J	2830	44.3	7620	<0.500	
	MW-103	Apr-21		186	4530	3.47	1.26 J	3010	157 J	8460	<0.500	
	MW-103	Apr-22		81.5	4670	4.33	1.06 J	2800	67.2	8280 Q	<0.500	
	MW-104	Jun-20		224	69.8	1.51	5.03	77.2	703	1290	<0.250	
	MW-104	Jun-20	FD	218	69.2	1.33	4.88	73.6	703	1140	<0.500	
	MW-104	Oct-20		256	71.7	1.34	5.63	73.9	785	1470	0.153	
MW-104	Oct-20	FD	241	71.7	1.36	5.28	73.7	702	1450	<0.0500		
MW-104	Apr-21		321	55.4	1.15	4.78	67.3	935	1820	0.109		
MW-104	Apr-21	FD	314	55.8	1.18	4.58	67.3	929	1760	<0.0500		
MW-104	Sep-21		306	69.0	1.31	6.26	70.5	834	1830	<2.50		
MW-104	Apr-22		190	41.6	1.28	3.79	47.4	623	1060	<0.500		
MW-104	Oct-22		198	58.2	1.58	5.40	60.2	542	1030	<2.50		
MW-105	Jun-20		243	98.8	1.43	2.74	71.7	177	1220	<2.50		
MW-105	Oct-20		170	99.9	1.47	2.73	89.5	17.4	1050	<0.0500		
MW-105	Apr-21		325	119 B	1.32	3.02	94.8	683	1910	<0.0500		
MW-105	Apr-22		400	50.7	1.24	3.58	58.4	1020	1980	<2.50		
MW-105	Oct-22		181	17.8	0.633	4.04	11.7	372	740 J3	8.85		
MW-106	Oct-19		360	217	1.29	1.74	264	1340	3240	<0.985		
MW-106	Jun-20		295	206	1.11	1.53 J	258	1130	2890	<10.0		
MW-106	Oct-20		285	213	0.865	0.777 J	318	980	3110	<0.0500		
MW-106	Apr-21		308	322	1.01	1.02 J	333	1580	3260	<0.0500		
MW-107	Oct-16		186	271	1.82	0.965 J	80.1	72.4	1480	0.170 B		
MW-107	Apr-17		140	313	1.76	0.655 J	75.4	<0.0774	1260	<0.197		
MW-107	Apr-18		147	269	1.66	0.555 J	81.7	1.08 J	1370	0.0410 J		
MW-107	Apr-19		147	246	1.33	0.631 J	82.5	0.657 J	1270	<0.0197		
MW-109	Jun-20		87.7	191	1.97	0.786 J	423	496	2150	<2.50		
MW-109	Oct-20		70.2	200	1.86	0.700 JB	430	376	1990	<0.0500		
MW-109	Apr-21		60.3	218	1.78	0.591 J	492	204	1820	0.104		
MW-109	Sep-21		76.6	61.9	1.44	0.758 J	394	321	2020	<0.500		
MW-109	Apr-22		60.9	201	1.96	0.852 J	389	276	1910	<1.00		
MW-109	Oct-22		113	198	1.83	1.12 J	431	207	1210	<0.250		
MW-110	Jun-20		97.8	95.6	1.39	<0.534	251	316	1300	<0.0500		
MW-110	Oct-20		95.9	92.9	1.32	<0.534	252	401	1290	<0.0500		
MW-110	Apr-21		101	75.8	1.33	0.430 J	271	433	1310	0.0916 J	</	

Appendix B, Table B.5 - Summary of Groundwater Analytical Data - Water Quality and Cyanide
2022 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Analyte Group:				Water Quality Parameters							Cyanide
Analyte:				Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite
CAS:				7440-70-2	16887-00-6	16984-48-8	7440-09-7	7440-23-5	14808-79-8	TDS	NO ₃ NO ₂
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				--	250	1.60	--	--	600	1000	10.0
CGWSL Source:				--	WQCC Dom	WQCC HH	--	--	WQCC Dom	WQCC Dom	WQCC HH
Area	Well ID	Date	Dup								
South Refinery	RW-5R	Apr-15		4.82	260	0.965	0.461 J	189	0.376 J	565	<0.0200
	RW-5R	Apr-16		4.61 J	262	0.564	0.364 J	203	0.655 J	399	0.495 J
	RW-6	Apr-15		168	414	0.628	0.686 J	205	129	1650	0.0335 J
	RW-6R	Apr-16		191	405	0.747	0.356 J	226	104	1470	0.485 JP1
	RW-6	Apr-18		183	409	0.804	0.684 J	224	45.6	1530	0.0460 J
	RW-6	Apr-19		165	325	0.620	0.598 J	191	3.36 J	1350	<0.394
	RW-15C	Apr-17		160	409	0.774	1.59	269	19.4	1610	0.442 J
	RW-15C	Apr-18		211 V	652	0.868	1.28	349 V	0.754 J	1850	<0.0197
South RO Field	RW-15C	Apr-19		247	264	0.882	1.63	322	1070	2110 J4	<0.0197
	MW-114	Jun-20		586	251	2.17	2.42	127	2060	3470	0.478 J5
	MW-114	Oct-20		528	233	2.07	2.37 B	119	1590	3300	0.110
	MW-114	Apr-21		532	180 B	1.98	2.46	118	1410	2960	0.110
	MW-114	Sep-21		466	227	2.32	2.26	109	1380	2820	<0.0500
	MW-114	Apr-22		380	114	2.75	1.89 J	97.1	1320	2080	<0.0500
	MW-114	Oct-22		467	408	2.25	2.09	158	1170	2670	<0.0500
	MW-115	Jun-20		475	424	2.09	<0.534	187	2590	4320	3.94
	MW-115	Oct-20		467	406	1.73	<0.534	179	2350	4590	3.99
	MW-115	Apr-21		508	357 B	1.54	0.552 J	212	2240	4560	3.56
	MW-115	Sep-21		466	357	1.75	0.547 J	215	2170	4330	1.85
	MW-115	Apr-22		437	342	1.57	0.516 J	219	2220	4070 Q	1.60
	MW-115	Oct-22		433	306	1.85	0.363 J	251	1870	3390	0.492
	MW-116	Jun-20		559	282	1.59	1.11 J	177	2270	4210	0.520
	MW-116	Oct-20		550	260	1.53	1.14 JB	176	1920	4040	0.476
	MW-116	Apr-21		588	278 B	1.52	1.39 J	186	2080	4000	0.636
TEL	MW-116	Sep-21		542	283 B	1.38	1.03 J	174	1940	3860	0.709
	MW-116	Apr-22		534	320 B	1.56	1.09 J	164	2300	4010	0.505
	MW-116	Oct-22		573	321	1.57	1.03 J	167	1910	3980	0.313
	MW-49	Jun-20		210	442	1.38	2.90	309	487	2350	<2.50
	MW-49	Oct-20		196	451	1.30	2.45	308	437	2340	<0.0500
	MW-49	Apr-21		184	395	1.24	1.81 J	333	383	1900	<5.00
	MW-49	Sep-21		164	333	1.26	1.96 J	290	317	1810	<2.50
	MW-49	Apr-22		144 V	265	1.30	1.76 J	270 V	258	1470	<0.500
	MW-49	Oct-22		146	233	1.47	1.93 J	277	179	1410	<2.50
	TEL-1	Oct-18		160	238	2.13	0.650 J	474	719	2080	<0.394
	TEL-1	Apr-19		172	250	2.14	0.685 J	460	803	2000	<0.394
	TEL-1	Oct-19		144	234	2.23	0.629 J	474	640	2200	<0.0197
	TEL-1	Jun-20		143	184	1.98	0.565 J	435	699	2140	<0.500
	TEL-2	Oct-18		266	205	0.967	1.14	363	1360	2730	<0.394
	TEL-2	Apr-19		274	224	1.09	1.73	377	1250	2940	<0.394
	TEL-2	Oct-19		298	159	1.28 B	1.30	407	1610	3550	<0.394
	TEL-2	Jun-20		280	130	0.988	1.05 J	373	1540	3400	<0.500
	TEL-3	Apr-18		302	696	2.51	6.00	308	442	2440	<0.0985
	TEL-3	Apr-19		562	52.7	2.77	5.37	44.1	1300	2290	<0.0985
	TEL-3	Oct-19		603	36.7	3.06	5.26	36.2	1470	2790	<0.985
	TEL-3	Oct-20		424	114	1.73	2.55	86.5	1290	2880	<0.0500
	TEL-4	Jun-20		305	456	0.932	<0.534	284 O1V	1480	3770	<0.500
	TEL-4	Jun-20	FD	308	455	0.841	<0.534	286	1490	3770	<0.0500
	TEL-4	Oct-20		294	400	0.904	<0.534	296 V	1140	3470	<0.0500
	TEL-4	Oct-20	FD	291	450	0.834	<0.534	307	1230	3510	<0.0500
	TEL-4	Apr-21		342	290	0.829	0.513 J	367	1240	3510	0.0747 J
	TEL-4	Apr-21	FD	341	325	0.825	0.521 J	356	1410	3540	0.0730 J
	TEL-4	Sep-21		441	316	0.765	0.588 J	406	1990	4670	0.0517 J
	TEL-4	Sep-21	FD	442	308	0.767	0.669 J	396	2030	4700	<0.0500
	TEL-4	Apr-22		245	138 B	1.14	0.499 J	320	1310	2330	<0.500
	TEL-4	Apr-22	FD	242	132 B	1.13	0.508 J	326	1300	2130	<0.500
	TEL-4	Oct-22		275	209	1.05	0.570 J	382	1290	2570	<0.250
	TEL-4	Oct-22	FD	282	204	1.03	0.580 J	385	1290	2530	<0.250
Three Mile Ditch	MW-8	Apr-19		499	450	2.08	1.85	336	3050	4640 J4	18.7
	MW-8	Jun-20		534	599	2.04	1.98 J	393	3060	5260	16.0
	MW-8	Apr-21		595	625	1.55	2.05	464	2690	5790	19.4
	MW-8	Apr-22		542	724	2.08	2.06	433	3040	5650 Q	14.7
	MW-16	Apr-19		555	349	2.57	9.13	472	2590	4590 J4	0.790
	MW-16	Jun-20		500	446	2.69	8.82	424	2610	4390	0.331
	MW-16	Apr-21		487	339	2.34	8.73	371	2040	4000	1.20
	MW-16	Apr-22		500	363	2.63	7.99	305	2350	3980 Q	0.512
	MW-20	Apr-19		541	373	2.27	0.509 J	284	2980	4710 Q	2.02
	MW-20	Jun-20		522	382	2.26	0.601 J	284	2830	4590	2.38
	MW-20	Apr-21		572	399	1.85	0.598 J	295	2590	4820	3.60
	MW-20	Apr-22		513 V	518	1.85	0.566 J	250 V	2570	4530	5.45
	MW-21	Jun-20		586	641	2.02	2.17	440	3130	5480	18.6
	MW-21	Oct-20		552	616	1.41	2.15	429	2700	5600	17.5
	MW-21	Apr-21		592	601	1.77	2.18	467	2570	5560	17.8
	MW-21	Sep-21		546	647	1.91	2.06	423	2770	5490	17.1
	MW-21	Apr-22		541	703	2.22	2.20	422	2960	5190	13.5
	MW-21	Oct-22		545	670	1.93	1.80 J	423	2440	4440	13.4
	MW-25	Apr-19		330	1040	1.00	4.19	771	1510	3810	2.98
	MW-25	Jun-20		323	976	1.31	3.90	653	1450	3610	0.143
	MW-25	Apr-21		358	940	1.01	3.54	472	1350	3660	0.466
	MW-25	Apr-22		1250	5220	1.10	7.69	2480	3430	25300	<0.0500
	MW-26	Apr-19		584	1010	2.09	5.77	674	4420	7020 Q	1.66
	MW-26	Jun-20		585	671	2.06	5.18	530	3660	5990	1.69
	MW-26	Apr-21		517	527	1.82	4.86	530	3130	5690	1.79
	MW-26	Apr-22		505	605	2.36	4.50	452	3670	6070 Q	1.52
	MW-27	Apr-19		297	55.2	1.42	7.82	104	1030	1720 J4	0.987
	MW-27	Jun-20		301	56.7	1.38	7.62	91.0	1070	1820	1.78
	MW-27	Apr-21		335	60.0	1.18	7.70	94.6	1110	1990	0.418
	MW-27	Apr-22		338	45.5	1.16	8.41	86.4	1270 V	2060	0.598
	MW-46R	Jun-20		607	204	1.43	0.731 J	172	2550	3930	0.0922 J
	MW-46R	Oct-20		553	175 B	1.16	0.725 JB	166	2070	3860	<0.0500
	MW-46R	Apr-21		596	203	1.18	0.838 J	179	2100	3850	0.127
	MW-46R	Sep-21		466	119 B	1.47	0.779 J	146	1680	3110	<0.0500
	MW-46R	Apr-22		372	48.7	1.45	0.558 J	124	1740	3970	1.25
	MW-46R	Oct-22		398	28.4	1.58	0.946 J	122	1360	1720	0.212
	MW-68	Apr-19		326	145	2.12	4.87	153	1310	2260 J4	1.08
	MW-68	Jun-20		420	354	1.89	5.27	190	1700	3040	2.05
	MW-68	Apr-21		412	244	1.70	5.09	235	1520	3090	1.70
	MW-68	Apr-22		390	261 B	1.67	5.07	218	1720	3010	2.47
	MW-71	Apr-19		673	799	1.71	3.47	502	3260	5940 J4	32.1
	MW-71	Jun-20		630	770	1.89	3.51	510	3130	6020	27.8
	MW-71	Apr-21		625	689	1.62	3.42	532	2810	6010	27.8
	MW-71	Apr-22		573	756	2.07	3.31	512	3280	5680	22.2
	MW-89	Apr-19		607 V	233	3.32	11.7	193 V	1040	3470 J4	1.34
	MW-89	Jun-20		480	162	2.92	8.84	148	1810	2810	0.151
	MW-89	Apr-21		451	196	2.35	7.06	139 V	1370	2650	1.05
	MW-89	Apr-22		421	183	2.82	7.91	143	1640	2710	1.29

Appendix B, Table B.5 - Summary of Groundwater Analytical Data - Water Quality and Cyanide
2022 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Analyte Group:				Water Quality Parameters								Cyanide
Analyte:				Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite	Cyanide
CAS:				7440-70-2	16887-00-6	16984-48-8	7440-09-7	7440-23-5	14808-79-8	TDS	NO ₃ NO ₂	57-12-5
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				--	250	1.60	--	--	600	1000	10.0	0.200
CGWSL Source:				--	WQCC Dom	WQCC HH	--	--	WQCC Dom	WQCC Dom	WQCC HH	WQCC HH
Area	Well ID	Date	Dup									
Three Mile Ditch	NP-1	Jun-20		436	409	1.89	2.59	311	2260	4060	3.27	
	NP-1	Oct-20										
	NP-1	Apr-21		479	402	1.50	1.69 J	325	1870	4090	3.17	
	NP-1	Sep-21										
	NP-1	Apr-22		392	411	1.96	1.70 J	279	1920	3760 Q	1.29	
	NP-1	Oct-22										
	NP-6	Apr-15										
	NP-6	Apr-17										
	NP-6	Apr-19										
NP-6	Apr-21											
Upgradient	UG-1	Apr-19		525	98.3	0.623	1.29	105	1800	3150	10.1	<0.00180
	UG-1	Jun-20		503	97.3	0.784	1.16 J	84.0	2060	3550 B	10.6	<0.00180
	UG-1	Apr-21		499	93.5	0.638	1.19 JB	93.1	1860	2950	11.1	<0.00180
	UG-1	Apr-22		536	113	0.662	0.985 J	84.8	2330	3570	12.4	<0.00180
	UG-2	Apr-19		357	61.3	1.32	1.58	90.6	1020	2040 Q	7.70 J6	<0.00180
	UG-2	Jun-20		342	75.9	1.52	1.41 J	85.7	1190	2150 B	9.75	<0.00180
	UG-2	Apr-21		330	66.3	1.36	1.33 JB	83.6	1070	1710	7.30	0.00321 J
	UG-2	Apr-22		310	70.4	1.41	1.20 J	78.9	1080	1950	9.64	<0.00180
	UG-3R	Apr-19		479	36.3	0.502	1.99	37.1	1390	2440	0.905	<0.00180
	UG-3R	Jun-20		440	39.6	0.582	1.93 J	30.1	1560	2430	1.93	<0.00180
	UG-3R	Apr-21		489	61.7	0.466	2.10	34.9	1530	2300	3.16	<0.00180
	UG-3R	Apr-22		529 V	58.4	0.433	2.01	31.9	1840	2860	2.49	<0.00180
	UG-4	Apr-19		694	133	0.544	1.96	190	2420	4210	0.418	<0.00180
	UG-4	Jun-20		622	108	0.605	1.78 J	168	2810	4210 B	0.326	<0.00180
	UG-4	Apr-21		635	76.0	0.676 J	1.82 J	164	2610	3800	0.491	<0.00180
UG-4	Apr-22		614	112	0.441	1.96 J	197	2890	4280	0.307 J3J6	<0.00180	

Definitions	
X	Reported concentration, X, exceeds the CGWSL.
X	Analyte detected above the detection limit at a concentration equal to X.
<x	Analyte not detected at detection limit equal to x.
<x	Analyte not detected at detection limit equal to x, but x exceeds the CGWSL.
	Blank cell indicates a sample was collected from the well during the indicated sampling event, but the analyte was not analyzed.
---	No applicable CGWSL.
Abbreviations	
CGWSL	Critical Groundwater Screening Level (see Table 3)
CGWSL Source	Source for CGWSL value (see Table 3)
Dup	Duplicate sample
FD	Field duplicate sample
mg/L	Milligrams per Liter
WQCC Dom	NMED Groundwater standard for domestic exposure, 20.6.2.3103.B NMAC
WQCC HH	NMED Groundwater standard for human health exposure, 20.6.2.3103.A NMAC

Lab Footnote	
B	Analyte was also detected in the associated method blank.
J	Indicates an estimated value.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
P1	Relative percent difference value not applicable for sample concentrations less than 5 times the reporting limit.
Q	Sample was prepared and/or analyzed past recommended holding time.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Appendix B, Table B.6 - Summary of Groundwater Analytical Data - Semi-Volatile Organic Compounds

2022 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Analyte Group:				Semi-Volatile Organic Compounds																							
				Analyte:		1,1'-Biphenyl	1,2,4-Trichlorobenzene	1,4-Dioxane	1-Methyl naphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	3- & 4-Methylphenol (m,p-Cresol)	3,3'-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenyl phenyl ether
				CAS:		92-52-4	120-82-1	123-91-1	90-12-0	95-95-4	88-06-2	120-83-2	105-67-9	51-28-5	121-14-2	606-20-2	91-58-7	95-57-8	91-57-6	95-48-7	88-74-4	88-75-5	65794-96-9	91-94-1	99-09-2	534-52-1	101-55-3
				Units:		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:		0.0371		0.00459	0.0300				0.354							0.0300											
Area	Well ID	Date	Dup																								
Evaporation Ponds	MW-3	04/13/2022				0.000494																					
	MW-4A	04/13/2022				0.000324 J																					
	MW-6A	04/13/2022				0.000292 J																					
	MW-22A	04/13/2022				0.000929																					
	OCD-3	04/12/2022				<0.0000447																					
	OCD-6	04/12/2022				<0.0000447																					
	MW-74	04/12/2022				0.00124																					
	MW-76	04/13/2022				0.000501																					
	MW-78	04/13/2022				<0.0000447																					
	MW-120	09/14/2021				<0.0000447																					
	MW-120	04/13/2022				<0.0000447																					
	MW-121	04/13/2022				<0.0000447																					
	MW-122	04/12/2022				<0.0000447																					
MW-123	04/13/2022				0.000895																						
Field East of Refinery	KWB-11A	09/14/2021				<0.0000447																					
	KWB-11A	10/11/2022				0.000378 J																					
	KWB-11B	09/14/2021				<0.0000447																					
	KWB-11B	04/13/2022				<0.0000447																					
	MW-113	09/14/2021				<0.0000447																					
	MW-113	09/14/2021	FD			<0.0000456																					
	MW-113	04/13/2022				<0.0000447																					
	MW-113	04/13/2022	FD			<0.0000447																					
	MW-126B	09/14/2021				<0.0000447																					
	MW-126B	04/12/2022				0.000113 J																					
	MW-134	09/15/2021				<0.0000447																					
	MW-134	09/15/2021	FD			<0.0000447																					
	MW-134	04/13/2022				<0.0000447																					
	MW-134	04/13/2022	FD			<0.0000469																					
	MW-135	09/14/2021				<0.0000447																					
	MW-135	04/12/2022				0.0000815 J																					
	RA-4798	09/14/2021				<0.0000447																					
RA-4798	04/13/2022				<0.0000447																						
NCL	MW-45	09/15/2021				0.000239 J																					
	MW-45	04/13/2022				0.000273 J																					
	MW-53R	04/12/2022				<0.0000447																					
	MW-54A	09/14/2021				<0.0000447																					
	MW-54A	04/12/2022				<0.0000447																					
	MW-108	09/14/2021				<0.0000447																					
	MW-108	04/12/2022				<0.0000447																					
	NCL-31	09/14/2021				<0.0000447																					
	NCL-31	04/12/2022				<0.0000447																					
	NCL-49	09/14/2021				<0.0000447																					
	NCL-49	09/14/2021	FD			<0.0000447																					
	NCL-49	04/12/2022				0.0000839 J																					
	NCL-49	04/12/2022	FD			<0.0000447																					
TEL	MW-49	09/15/2021				0.000415																					
	MW-49	04/13/2022				0.000612																					
	TEL-4	04/02/2019		<0.000325	<0.000355		0.00498	<0.000236	<0.000297	<0.000284	<0.000624	<0.00325	<0.00165	<0.000279	<0.000330	<0.000283	<0.000311	<0.000312	<0.00190	<0.000320		<0.00202	<0.000308	<0.00262	<0.000335		
	TEL-4	04/02/2019	FD	<0.000325	<0.000355		0.00531	<0.000236	<0.000297	<0.000284	<0.000624	<0.00325	<0.00165	<0.000279	<0.000330	<0.000283	<0.000311	<0.000312	<0.00190	<0.000320		<0.00202	<0.000308	<0.00262	<0.000335		
	TEL-4	10/22/2019		<0.000325	<0.000355		0.00275	<0.000236	<0.000297	<0.000284	<0.000624	<0.00325	<0.00165	<0.000279	<0.000330	<0.000283	<0.000311	<0.000312	<0.00190	<0.000320		<0.00202	<0.000308	<0.00262	<0.000335		
	TEL-4	10/22/2019	FD	<0.000325	<0.000355		0.00300	<0.000236	<0.000297	<0.000284	<0.000624	<0.00325	<0.00165	<0.000279	<0.000330	<0.000283	<0.000311	<0.000312	<0.00190	<0.000320		<0.00202	<0.000308	<0.00262	<0.000335		
	TEL-4	09/14/2021				0.000499																					
	TEL-4	09/14/2021	FD			0.000558																					
	TEL-4	04/12/2022				<0.0000447																					
TEL-4	04/12/2022	FD			0.000167 J																						

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

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Appendix B, Table B.6 - Summary of Groundwater Analytical Data - Semi-Volatile Organic Compounds
2022 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Analyte Group:				Semi-Volatile Organic Compounds																						
Analyte:				4-Chloro-3-methylphenol	4-Chloroaniline	4-Chlorophenyl phenyl ether	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Acetophenone	Anthracene	Atrazine	Benzaldehyde	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Bis(2-chloroethoxy)m ethane	Bis(2-chloroethyl) ether	Bis(2-chloroisopropyl) ether	Bis(2-ethylhexyl) phthalate	Butylbenzyl-phthalate	Caprolactam	Carbazole
CAS:				59-50-7	106-47-8	7005-72-3	100-01-6	100-02-7	83-32-9	208-96-8	98-86-2	120-12-7	1912-24-9	100-52-7	56-55-3	50-32-8	205-99-2	191-24-2	207-08-9	111-91-1	111-44-4	108-60-1	117-81-7	85-68-7	105-60-2	86-74-8
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:									0.535				1.72	0.00300			0.000200						0.00600	0.0160		
Area	Well ID	Date	Dup																							
Evaporation Ponds	MW-3	04/13/2022																								
	MW-4A	04/13/2022																								
	MW-6A	04/13/2022																								
	MW-22A	04/13/2022																								
	OCD-3	04/12/2022																								
	OCD-6	04/12/2022																								
	MW-74	04/12/2022																								
	MW-76	04/13/2022																								
	MW-78	04/13/2022																								
	MW-120	09/14/2021																								
	MW-120	04/13/2022																								
	MW-121	04/13/2022																								
MW-122	04/12/2022																									
MW-123	04/13/2022																									
Field East of Refinery	KWB-11A	09/14/2021																								
	KWB-11A	10/11/2022																								
	KWB-11B	09/14/2021																								
	KWB-11B	04/13/2022																								
	MW-113	09/14/2021																								
	MW-113	09/14/2021	FD																							
	MW-113	04/13/2022																								
	MW-113	04/13/2022	FD																							
	MW-126B	09/14/2021																								
	MW-126B	04/12/2022																								
	MW-134	09/15/2021																								
	MW-134	09/15/2021	FD																							
	MW-134	04/13/2022																								
	MW-134	04/13/2022	FD																							
	MW-135	09/14/2021																								
MW-135	04/12/2022																									
RA-4798	09/14/2021																									
RA-4798	04/13/2022																									
NCL	MW-45	09/15/2021																								
	MW-45	04/13/2022																								
	MW-53R	04/12/2022																								
	MW-54A	09/14/2021																								
	MW-54A	04/12/2022																								
	MW-108	09/14/2021																								
	MW-108	04/12/2022																								
	NCL-31	09/14/2021																								
	NCL-31	04/12/2022																								
	NCL-49	09/14/2021																								
	NCL-49	09/14/2021	FD																							
	NCL-49	04/12/2022																								
NCL-49	04/12/2022	FD																								
TEL	MW-49	09/15/2021																								
	MW-49	04/13/2022																								
	TEL-4	04/02/2019		<0.000263	<0.000382	<0.000303	<0.000349	<0.00201	0.000493 J	<0.000309	<0.00247	<0.000291	<0.000260	<0.00140	<0.0000510	0.000119 JB	<0.0000896	<0.00000227	<0.000355	<0.000329	<0.00162	<0.000445	0.0641	<0.000275	<0.00259	<0.000260
	TEL-4	04/02/2019	FD	<0.000263	<0.000382	<0.000303	<0.000349	<0.00201	0.000532 J	<0.000309	<0.00247	<0.000291	<0.000260	<0.00140	<0.0000510	<0.0000381	<0.0000896	<0.00000227	<0.000355	<0.000329	<0.00162	<0.000445	0.000835 J	<0.000275	<0.00259	<0.000260
	TEL-4	10/22/2019		<0.000263	<0.000382	<0.000303	<0.000349	<0.00201	0.000378 J	<0.000309	<0.00247	<0.000291	0.000434 J	<0.00140	<0.0000510	<0.0000381	<0.0000896	<0.00000227	<0.000355	<0.000329	<0.00162	<0.000445	0.00120 J	<0.000275	<0.00259	0.000400 J
	TEL-4	10/22/2019	FD	<0.000263	<0.000382	<0.000303	<0.000349	<0.00201	0.000465 J	<0.000309	<0.00247	<0.000291	0.000340 J	<0.00140	<0.0000510	<0.0000381	<0.0000896	<0.00000227	<0.000355	<0.000329	<0.00162	<0.000445	0.00146 J	<0.000275	<0.00259	0.000289 J
	TEL-4	09/14/2021																								
	TEL-4	09/14/2021	FD																							
	TEL-4	04/12/2022																								
TEL-4	04/12/2022	FD																								

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Appendix B, Table C.6 - SVOCs Groundwater Analytical Results

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Appendix B, Table B.6 - Summary of Groundwater Analytical Data - Semi-Volatile Organic Compounds
2022 Annual Groundwater Monitoring Report
HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Analyte Group:				Semi-Volatile Organic Compounds																						
Analyte:				Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl-phthalate	Dimethyl-phthalate	Di-n-butylphthalate	Di-n-octylphthalate	Fluoranthene	Fluorene	Hexachloro-benzene	Hexachloro-butadiene	Hexachloro-cyclopentadiene	Hexachloro-ethane	Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene	n-Nitroso-di-n-propylamine	N-Nitro-sodi-phenylamine	Pentachloro-phenol	Phenanthrene	Phenol	Pyrene
CAS:				218-01-9	53-70-3	132-64-9	84-66-2	131-11-3	84-74-2	117-84-0	206-44-0	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5	78-59-1	91-20-3	98-95-3	621-64-7	86-30-6	87-86-5	85-01-8	108-95-2	129-00-0
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:						0.00790	14.8		0.885		0.802	0.288							0.0300					0.117	0.00500	0.117
Area	Well ID	Date	Dup																							
Evaporation Ponds	MW-3	04/13/2022																								
	MW-4A	04/13/2022																								
	MW-6A	04/13/2022																								
	MW-22A	04/13/2022																								
	OCD-3	04/12/2022																								
	OCD-6	04/12/2022																								
	MW-74	04/12/2022																								
	MW-76	04/13/2022																								
	MW-78	04/13/2022																								
	MW-120	09/14/2021																								
	MW-120	04/13/2022																								
	MW-121	04/13/2022																								
MW-122	04/12/2022																									
MW-123	04/13/2022																									
Field East of Refinery	KWB-11A	09/14/2021																								
	KWB-11A	10/11/2022																								
	KWB-11B	09/14/2021																								
	KWB-11B	04/13/2022																								
	MW-113	09/14/2021																								
	MW-113	09/14/2021	FD																							
	MW-113	04/13/2022																								
	MW-113	04/13/2022	FD																							
	MW-126B	09/14/2021																								
	MW-126B	04/12/2022																								
	MW-134	09/15/2021																								
	MW-134	09/15/2021	FD																							
	MW-134	04/13/2022																								
	MW-134	04/13/2022	FD																							
	MW-135	09/14/2021																								
MW-135	04/12/2022																									
RA-4798	09/14/2021																									
RA-4798	04/13/2022																									
NCL	MW-45	09/15/2021																								
	MW-45	04/13/2022																								
	MW-53R	04/12/2022																								
	MW-54A	09/14/2021																								
	MW-54A	04/12/2022																								
	MW-108	09/14/2021																								
	MW-108	04/12/2022																								
	NCL-31	09/14/2021																								
	NCL-31	04/12/2022																								
	NCL-49	09/14/2021																								
	NCL-49	09/14/2021	FD																							
	NCL-49	04/12/2022																								
NCL-49	04/12/2022	FD																								
TEL	MW-49	09/15/2021																								
	MW-49	04/13/2022																								
	TEL-4	04/02/2019		<0.000332	<0.0000644	0.00177 J	<0.000282	<0.000283	0.000273 J	<0.000278	<0.000310	0.00118	<0.000341	<0.000329	<0.00233	<0.000365	<0.000279	<0.000272	<0.000372	<0.000367	<0.000403	<0.00119	<0.000313	<0.000366	0.00150 J	<0.000330
	TEL-4	04/02/2019	FD	<0.000332	<0.0000644	0.00205 J	<0.000282	<0.000283	0.000267 J	<0.000278	<0.000310	0.00106	<0.000341	<0.000329	<0.00233	<0.000365	<0.000279	<0.000272	<0.000372	<0.000367	<0.000403	<0.00119	<0.000313	<0.000366	0.00177 J	<0.000330
	TEL-4	10/22/2019		<0.000332	<0.0000644	0.00161 J	<0.000282	<0.000283	0.000312 J	<0.000278	<0.000310	0.000570 J	<0.000341	<0.000329	<0.00233	<0.000365	<0.000279	<0.000272	0.000383 J	<0.000367	<0.000403	<0.00119	<0.000313	<0.000366	0.000961 J	<0.000330
	TEL-4	10/22/2019	FD	<0.000332	<0.0000644	0.00169 J	<0.000282	<0.000283	0.000278 J	<0.000278	<0.000310	0.000676 J	<0.000341	<0.000329	<0.00233	<0.000365	<0.000279	<0.000272	0.000395 J	<0.000367	<0.000403	<0.00119	<0.000313	<0.000366	0.00146 J	<0.000330
	TEL-4	09/14/2021																								
	TEL-4	09/14/2021	FD																							
	TEL-4	04/12/2022																								
TEL-4	04/12/2022	FD																								

HF Sinclair Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Definitions	
X	Reported concentration, X, exceeds the CGWSL.
X	Analyte detected above the detection limit at a concentration equal to X.
<x	Analyte not detected at detection limit equal to x.
<x	Analyte not detected at detection limit equal to x, but x exceeds the CGWSL.
	Blank cell indicates a sample was collected from the well during the indicated sampling event, but the analyte was not analyzed.
Lab Footnote	
B	Analyte was also detected in the associated method blank.
J	Indicates an estimated value.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 227929

CONDITIONS

Operator: HF Sinclair Navajo Refining LLC ATTN: GENERAL COUNSEL Dallas, TX 75201	OGRID: 15694
	Action Number: 227929
	Action Type: [UF-DP] Discharge Permit (DISCHARGE PERMIT)

CONDITIONS

Created By	Condition	Condition Date
Ibarr	None	10/3/2023