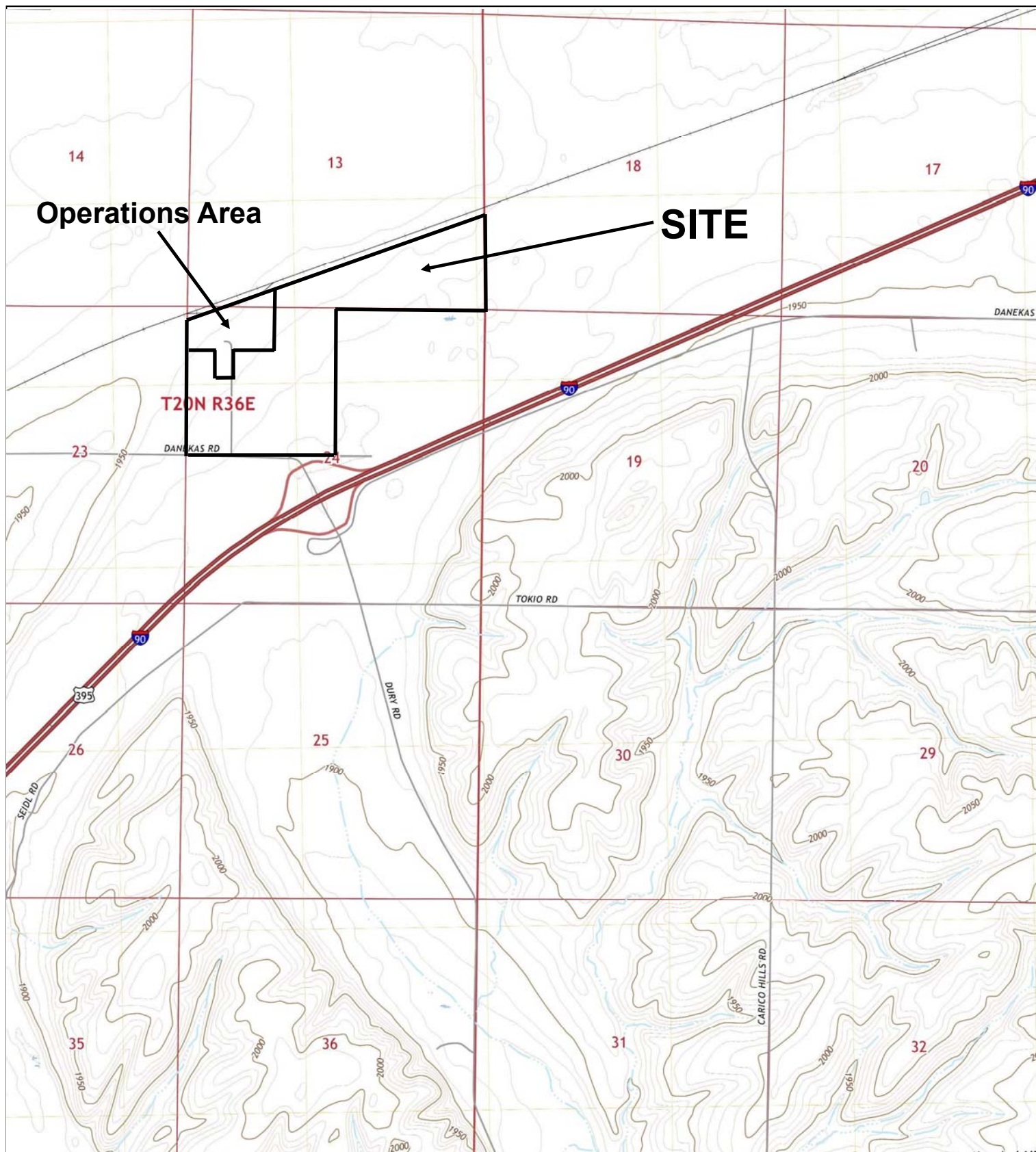
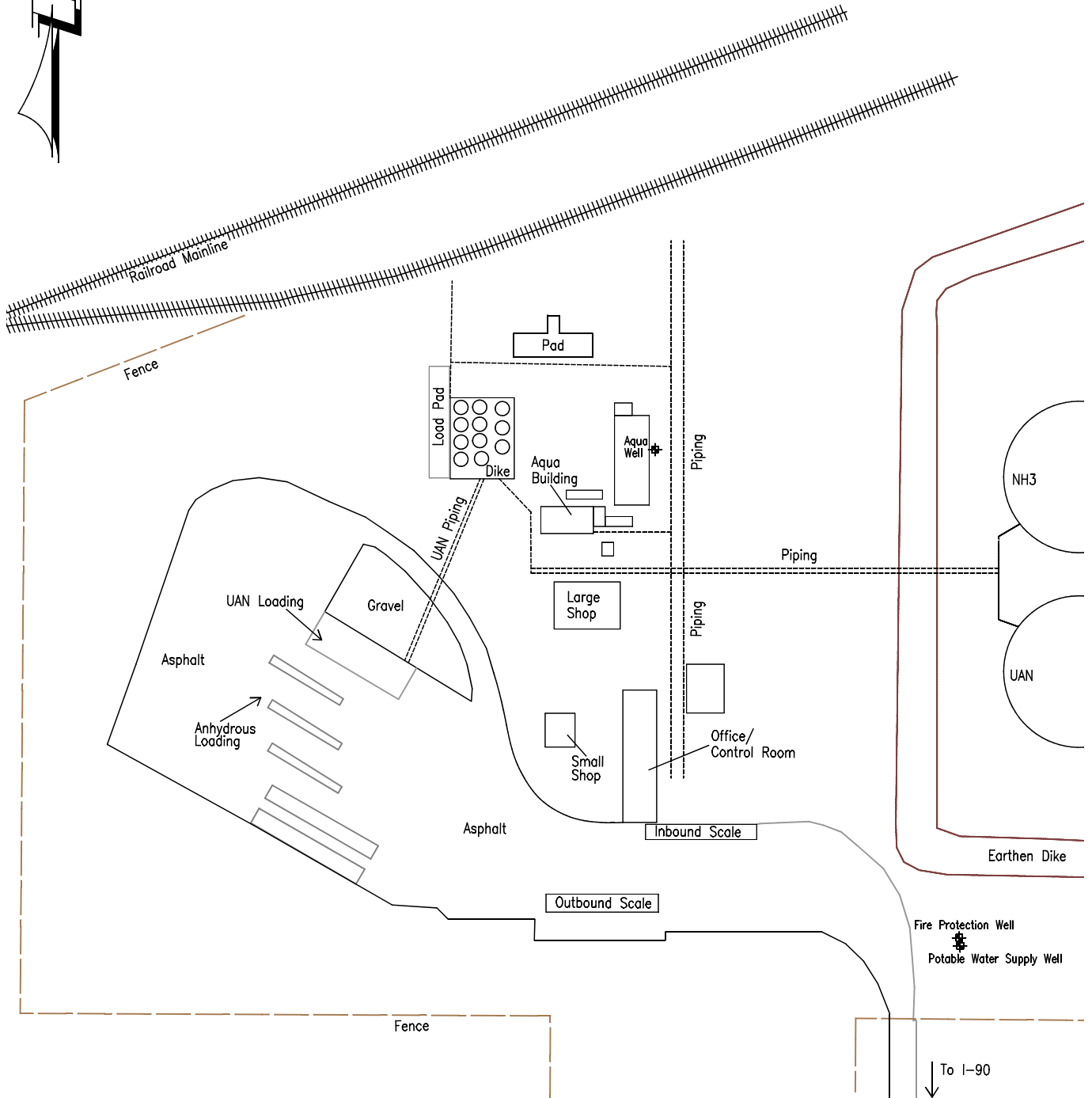
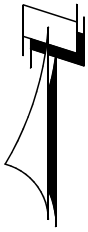


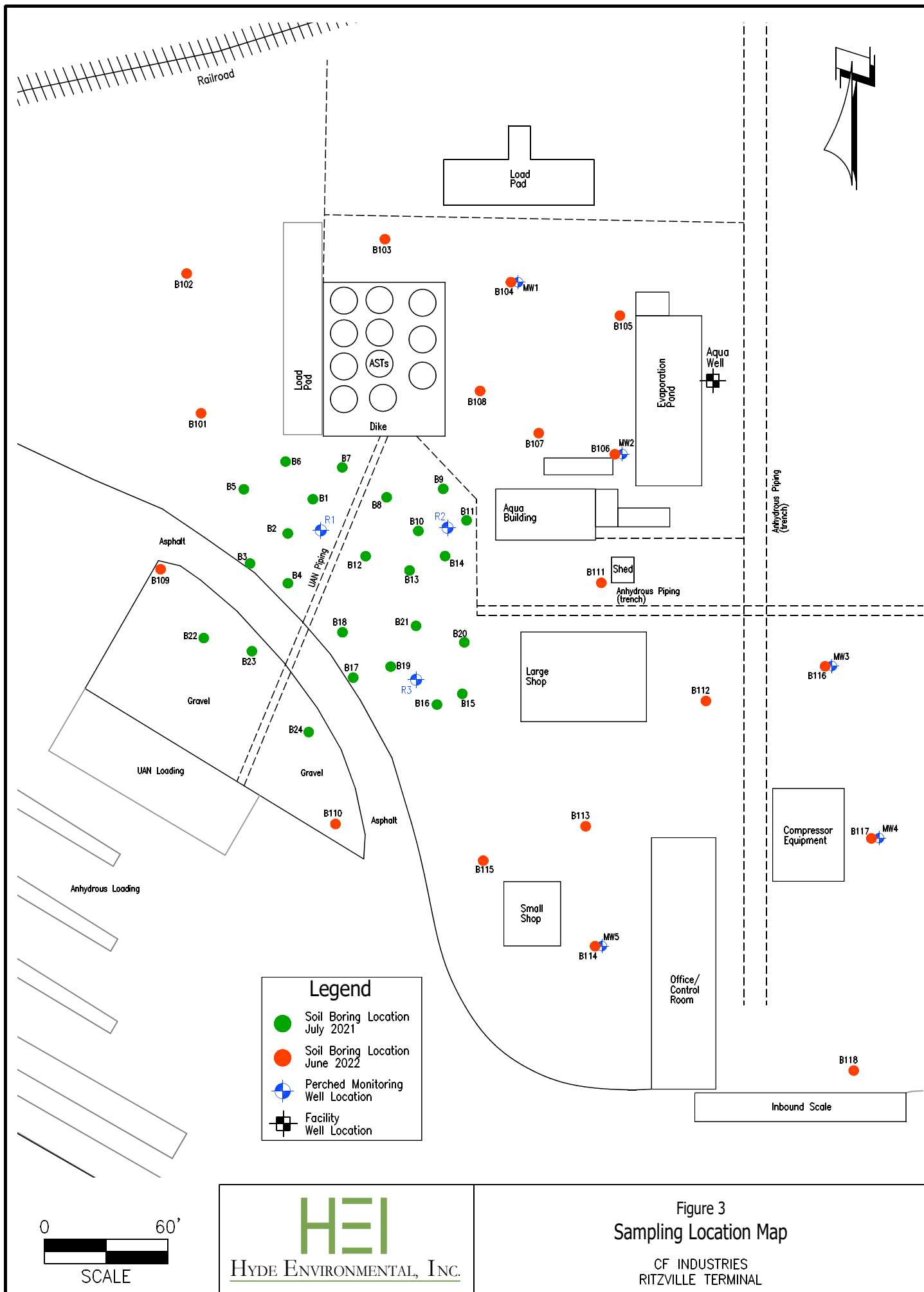


Map Source: USGS Karakul Hills, WA
Quadrangle, 2020

HEI
HYDE ENVIRONMENTAL, INC.

Figure 1
SITE LOCATION MAP
CF Distribution - Ritzville Terminal.
Ritzville, WA





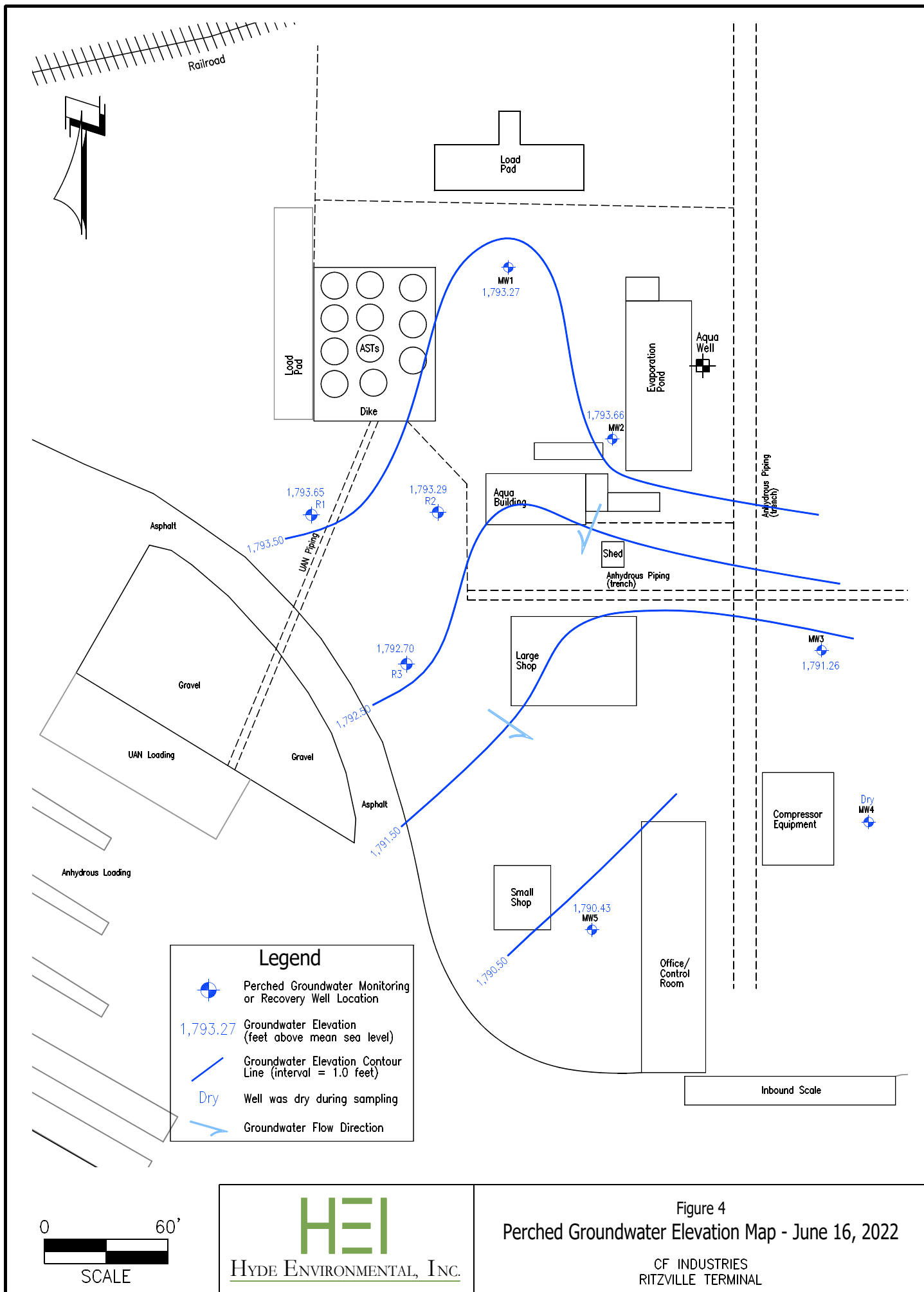


Figure 4
Perched Groundwater Elevation Map - June 16, 2022

CF INDUSTRIES
RITZVILLE TERMINAL

TABLE 1. SOIL DATA SUMMARY - JULY 2021
CF Industries
Ritzville, Washington

Samples collected July 7 and 8, 2021

Sample Number	Nitrate+ Nitrite-N (mg/kg)	Ammonia -N (mg/kg)	Total Nitrogen (mg/kg)
B1 1-1.5"	109	<78	109
B1 3-4'	5,460	6,720	12,180
B1 7-8'	39,700	39,000	78,700
B2 1-1.5"	<20	<78	ND
B2 4-5"	51.4	69.5	121
B2 6-6.3'	6,730	10,500	17,230
B3 1-1.5	<20	<10	ND
B3 4-5	331	11.30	342
B3 7-8	2,460	3,410	5,870
B4 1-1.5	141	<10	141
B4 3-4'	384	287	671
B4 7-7.3'	30,900	39,100	70,000
B5 1-1.5	<20	<10	ND
B5 3-4	930	1,410	2,340
B6 1-1.5	23	<10	23
B6 3-4	49	78	127
B6 6-7	9,450	10,700	20,150
B7 1-1.5	255	<10	255
B7 3-4	300	290	590
B7 6-7	14,900	15,900	30,800
B8 1-1.5	565	NA	565
B8 3-4	1,720	1,950	3,670
B8 5.5-6.5	11,800	21,200	33,000
B9 1-1.5	23	NA	23
B9 3-4	<20	<78	ND
B9 4.6-4.8	15,600	20,900	36,500
B10 1-1.5	23	NA	23
B10 3-4	648	130	778
B10 4.5-4.8	2,950	4,640	7,590
B11 1-1.5	23	NA	23
B11 3-4	43.7	<10	44
B11 6-6.75	30,400	32,700	63,100
B12 1-1.5	113	NA	113
B12 3-4	<2000	505	505
B12 6.5-7	12,400	14,000	26,400

Sample Number	Nitrate+ Nitrite-N (mg/kg)	Ammonia -N (mg/kg)	Total Nitrogen (mg/kg)
B13 1-1.5	226	NA	226
B13 3-4	1,220	1,330	2,550
B13 5-5.75	24,400	23,300	47,700
B14 1-1.5	57	NA	57
B14 3-4	336	272	608
B14 5-6	21,400	26,100	47,500
B15 1-1.5	315	<10	315
B15 4-4.5	12,700	13,800	26,500
B15 6-6.5	35,300	35,500	70,800
B16 1-1.5	134	<10	134
B16 3-4	29.3	<10	29
B16 5.5-6.5	19,000	16,600	35,600
B17 1-1.5	84.8	<10	85
B17 3-4	42.8	<10	43
B17 6-6.25	27,800	28,400	56,200
B18 1-1.5	161	<10	161
B18 3-4	69.5	<10	70
B18 5.5-6.5	14,600	16,000	30,600
B19 1-1.5	272	10.50	283
B19 3-4	174	7.90	182
B19 5-6	2,130	1,450	3,580
B20 1-1.5	153	8.23	161
B20 3-4	14,300	16,000	30,300
B20 4.5-5	11,900	14,100	26,000
B21 1-1.5	338	<10	338
B21 3-4	37.4	<10	37
B21 5-5.5	20,100	21,500	41,600
B22 0.5-1	9.06	22.8	32
B22 2.5-3	15.6	<10	16
B23 0.5-1	28.8	8.81	38
B23 3-3.5	717	845	1,562
B24 1-1.5	19.7	<10	20
B24 3-4	30	<10	30
B24 4-4.6	278	265	543

NA = Not Analyzed

ND = Not Detected

Bold = Total Nitrogen >1,000 mg/kg

Preliminary Results

Table 2. SOIL DATA SUMMARY JUNE - 2022

CF Industries
Ritzville, Washington

Samples collected June 14, 2022 by Hyde Environmental

Sample Number	Ammonia-N (mg/kg)	Nitrate/Nitrite-N (mg/kg)	Total Nitrogen (mg/kg)
B101-2'	<5.77	7.0	7.0
B101-3'	53.7	40.2	93.9
B101-5'	<6.62	28.1	28.1
B102-2'	<6.18	<6.18	<6.18
B102-4'	<5.89	<5.89	<5.89
B103-2'	398	128	526.0
B103-4'	<5.31	40.8	41
B103-6.8'	<6.79	14.1	14.1
B104-2'	<5.84	52.6	52.6
B104-4'	<5.73	64.8	65
B104-7'	4,510	2,900	7,410
B105-2'	<5.66	18.0	18.0
B105-4.5'	<6.47	12.6	12.6
B106-2'	<6.39	53.1	53.1
B106-4'	673	12.2	685
B106-7'	5,930	5,130	11,060
B107-2'	<5.99	101	101
B107-4'	<5.29	17.7	17.7
B107-6.5'	7,480	834	8,314.0
B108-2'	<5.46	75.4	75.4
B108-4'	<5.39	41.0	41.0
B108-5'	8,610	5,030	13,640

Sample Number	Ammonia-N (mg/kg)	Nitrate/Nitrite-N (mg/kg)	Total Nitrogen (mg/kg)
B110-2'	<5.48	131	131
B110-4'	64.3	180	244
B110-7.3'	29,500	26,600	56,100
B111-2'	116	41.2	157
B111-4.5'	4,220	694	4,914
B112-2'	<5.38	5.81	5.81
B112-4'	<5.37	7.74	7.74
B113-2'	<5.76	164	164
B113-4'	<5.20	16.2	16.2
B113-7.3'	5,430	430	5,860
B114-2'	<5.44	117	117
B114-4'	<5.81	39.8	39.8
B114-8'	<5.25	<5.25	<5.25
B115-2'	<5.54	<5.54	<5.54
B115-4'	<6.04	9.96	9.96
B115-7.4'	7,020	411	7,431
B116-4'	<5.25	36.2	36.2
B116-7.8'	4,320	1,920	6,240
B117-2'	<6.26	<6.25	<6.26
B117-4'	<6.66	134	134
B117-6.8'	98.8	445	543.8
B118-2'	<5.64	<5.64	<5.64
B118-4'	<5.32	<5.32	<5.32
B118-9.8'	<6.22	17.5	17.5

Notes:

< = less than

Bold results equal or exceed 1,000 mg/kg Total Nitrogen

Soil samples from boring B109 were not analyzed.

TABLE 3. PERCHED GROUNDWATER DATA SUMMARY
CF Industries, Inc. - Ritzville Terminal
Ritzville, WA

Samples collected on June 16, 2022 by Hyde Environmental

Well	Ammonia-N (mg/L)	Nitrate/Nitrite-N (mg/L)
MW-1	1,090	791
MW-2	4,680	2,420
MW-3	1,870	1,590
MW-4	NS	NS
MW-5	11,200	14,400
R-1	691	353
R-2	16,400	16,600
R-3	33,500	30,400

Note: MW-4 was not sampled because it was dry