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January 23, 2024

APPROVED

New Mexico Energy, Minerals and Natural Resources Department
New Mexico Oil Conservation Division
Attn: Mike Buchanan
1220 South St. Francis Drive
Santa Fe, NM 87505

**Re: Request for Modifications to Stage 2 Abatement Plan
HF Sinclair, North Monument 6-Inch Gathering Line AP# 34,
Monument, New Mexico**

Dear Mr. Buchanan:

On behalf of HF Sinclair (HFS), TRC Environmental Corporation (TRC) requests approval for proposed Stage 2 Abatement Plan (AP) modifications in reference to the HFS North Monument Release Site near Monument, New Mexico (Site). The Site location is shown on **Figure 1**. The C-141 report was submitted to the New Mexico Oil Conservation Division (NMOCD) in October 2002. The Stage 1 Abatement Plan Proposal was submitted in April 2004 and approved by the NMOCD in October 2004. The initial Stage 2 AP was submitted in October 2012. The current Stage 2 AP program includes the following activities:

- Quarterly groundwater monitoring activities; and
- Monthly enhanced fluid recovery (EFR) activities.

Based on Site conditions, the Stage 2 AP program can be reduced yet maintain the effectiveness of the program to remove light non-aqueous phase liquid (LNAPL) and monitor groundwater and fluid levels at the Site. Additional details regarding the proposed modifications are provided below. Well locations are shown on **Figure 2**.

SITE BACKGROUND

Measurable LNAPL has historically been present in wells WBH-13, WBH-20, BH-4-4, BH-16, BH-17, BH-18, BH-39, BH-41, BH-45, BH-61, BH-64, BH-66, BH-67, BH-88, BH-103, BH-107, MRW-3, and MRW-6. In 2023, the greatest apparent LNAPL thickness (2.14 feet) was measured at well BH-17 in August 2023 and BH-16 in October 2023. As shown on the Site-wide cumulative apparent LNAPL thickness over time presented on **Chart 1**, historical gauging data indicate generally stable to decreasing apparent LNAPL thicknesses over time.



Mr. Mike Buchanan
January 23, 2024
Page 2 of 9

Stage 2 AP Modification Request
North Monument 6-Inch Gathering Line AP# 34
Monument, New Mexico

LNAPL recovery over time has varied but has generally decreased. It is estimated that 1,179 barrels (bbls) of crude oil were recovered from Site wells using manually-controlled pumps from 2004 to 2011 and a crude oil-only skimmer pump system from 2013 to 2015. EFR and periodic use of absorbent socks have been used for LNAPL recovery since 2015. EFR is conducted using a vacuum truck, which is used to extract accumulated LNAPL and groundwater from select wells with more than 0.25 feet of apparent LNAPL. Actual LNAPL recovery volumes are unknown but are estimated to be less than 50 gallons per EFR event.

Quarterly groundwater monitoring results at wells MW-1, MW-3, MW-5, MW-6, and MW-7 in 2023 indicate minor detected concentrations of total petroleum hydrocarbons (TPH) diesel range organics (DRO) and gasoline range organics (GRO) at MW-6. There are no New Mexico Water Quality Control Commission [WQCC] groundwater standards established for TPH. TPH GRO and DRO were not detected above laboratory reporting limits in the remaining wells during 2023. Benzene, toluene, ethylbenzene, or total xylenes (BTEX) were not detected above the laboratory reporting limits in any monitoring well in 2023, and all reporting limits were below the WQCC groundwater standards. Wells MW-1, MW-3, MW-5, MW-6, and MW-7 provide delineation of LNAPL and groundwater chemicals of concern (COCs) at the Site.

Analytical and fluid level results through 2022 were previously submitted to the NMOCD in Site Status Reports; the most recent Site Status Report was submitted to NMCOD on March 22, 2023, and was approved by the NMOCD on August 14, 2023. A summary of historical fluid levels measured during groundwater monitoring events through 2023 is presented in **Table 1**. Analytical data from the 2023 groundwater monitoring events is included in **Table 2**. Additional details and laboratory reports associated with 2023 groundwater monitoring events will be presented in the 2023 Annual Status Report, which will be submitted to the NMOCD by April 1, 2024.

OCTOBER 2023 LNAPL TRANSMISSIVITY TESTING

From October 18 to 20, 2023, TRC performed LNAPL transmissivity baildown tests at wells BH-17, BH-39, BH-103, and WBH-20. These four wells were selected for transmissivity testing because of their relatively large apparent LNAPL thickness prior to the baildown test and spatial representation of the LNAPL plume. Well locations are shown on **Figure 2**. Wells BH-17, BH-39, and BH-103 are near the center of the Site and WBH-20 is in the western portion of the Site, on the west side of Maddox Road. The purpose of the testing was to estimate LNAPL transmissivity at the Site, which can be used as a metric for evaluating the potential mobility and practicality of recovering LNAPL. According to the Interstate Technology and Regulatory Council (ITRC), a calculated transmissivity of below 0.80 ft²/day indicates LNAPL may not be recoverable. The Technical Memorandum detailing the October 2023 LNAPL testing methodology, results, and recommendations is attached.



Mr. Mike Buchanan
January 23, 2024
Page 3 of 9

Stage 2 AP Modification Request
North Monument 6-Inch Gathering Line AP# 34
Monument, New Mexico

Based on the October 2023 testing, transmissivities for wells at the Site were estimated between 0.08 ft²/day and 6.53 ft²/day using the highest confidence Bouwer and Rice model and between 0.20 ft²/day and 20.52 ft²/day using the lowest confidence Cooper-Bredehoeft-Papadopoulos model. In each model, the highest LNAPL transmissivity was calculated at WBH-20, in the western portion of the Site. Low to moderate LNAPL transmissivities were calculated at BH-17, BH-39, and BH-103 near the center of the Site. Bouwer and Rice model transmissivities at BH-17 and BH-39 were below the 0.80 ft²/day threshold (0.08 ft²/day and 0.12 ft²/day, respectively) and the transmissivity at BH-103 was only slightly above the 0.80 ft²/day threshold (0.92 ft²/day).

Results of the LNAPL transmissivity study indicate the following:

- The LNAPL transmissivities at wells BH-17 and BH-39, located at the central portion of the Site, are below the upper threshold for sustainable LNAPL recovery, indicating LNAPL recovery from these wells would not be effective.
- The LNAPL transmissivity at well BH-103, located at the central portion of the Site, is near the upper threshold for sustainable LNAPL recovery, indicating LNAPL recovery from this well would likely be limited.
- The LNAPL transmissivity at well WBH-20, located at the western portion of the Site, was several times higher than the upper threshold for sustainable LNAPL recovery, indicating potentially recoverable LNAPL at this well.

As shown in the attached **Chart 1**, the Site-wide cumulative apparent LNAPL thickness decreased notably from 2012 to 2017 and has been stable with fluctuations from 2017 to 2023. This data suggests that apparent LNAPL thicknesses in Site wells have become asymptotic since 2017, likely due to the overall low recoverability of remaining LNAPL at the Site (with the exception of well WBH-20).

STAGE 2 AP MODIFICATION REQUEST

Based on the calculated low transmissivities, a generally stable trend in LNAPL thickness since 2016, and minimal dissolved-phase COCs detected in groundwater, the following modifications to the Stage 2 AP are requested:

- Reduction of the current EFR schedule from monthly to quarterly, beginning in 2024. Quarterly EFR will focus on the western portion of the Site (e.g., well WBH-20) in the area of higher potential LNAPL recovery.
- Reevaluate groundwater conditions after completion of 2024 quarterly groundwater monitoring. If LNAPL thickness/extent and dissolved-phase COCs remain stable in 2024 during implementation of the reduced quarterly EFR schedule, the groundwater



Mr. Mike Buchanan
January 23, 2024
Page 4 of 9

Stage 2 AP Modification Request
North Monument 6-Inch Gathering Line AP# 34
Monument, New Mexico

monitoring events will be reduced from a quarterly schedule to a semi-annual schedule in 2025.

- Reevaluate groundwater conditions after completion of 2025 semi-annual groundwater monitoring and perform additional LNAPL transmissivity testing in 2026 to assess LNAPL recoverability over time.

Annual reporting will continue consistent with the current program. These proposed Stage 2 modifications are appropriate because:

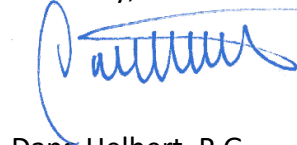
- The remaining LNAPL plume is stable to decreasing and delineated. Historical gauging data indicate generally stable to decreasing apparent LNAPL thicknesses over time.
- BTEX is not present in Site monitoring wells above WQCC groundwater standards, thus providing delineation of groundwater COCs at the Site.
- The remaining LNAPL and groundwater COCs do not pose a threat to human health or the environment. No drinking water or municipal wells are located in the Site vicinity.
- With the exception of well WBH-20, LNAPL transmissivity testing indicates remaining LNAPL at the Site is below or at the upper threshold for sustainable LNAPL recovery. This is supported by apparent LNAPL thicknesses in Site wells, which have become asymptotic since 2017, and low estimated LNAPL recovery volumes during monthly EFR events (less than 50 gallons).

Overall, the proposed modifications will not reduce the overall effectiveness of the Stage 2 AP program to remove recoverable LNAPL and monitor groundwater and fluid levels at the Site. As described above, site conditions will be evaluated after completion of the 2024 and 2025 groundwater monitoring and EFR activities and again after the 2026 LNAPL transmissivity testing.

CLOSING

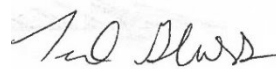
HFS and TRC appreciate NMOCD's consideration of these Stage 2 AP modifications. These modifications will be implemented at the site upon NMOCD approval of this letter. If you have any questions or comments regarding this project, please do not hesitate to contact Mike Holder of HFS at (575) 308-1115 or me at (512) 202-6823 or dhelbert@trccompanies.com.

Sincerely,



Dana Helbert, P.G.
Geologist/Assistant Project Manager

Sincerely,



Teal Glass
Project Manager



Mr. Mike Buchanan
January 23, 2024
Page 5 of 9

Stage 2 AP Modification Request
North Monument 6-Inch Gathering Line AP# 34
Monument, New Mexico

Attachments:

Figures

Tables

Chart 1

Technical Memorandum: LNAPL Transmissivity Testing and Recommendations

cc: Bryan Gilbert, P.G., TRC, Austin, Texas

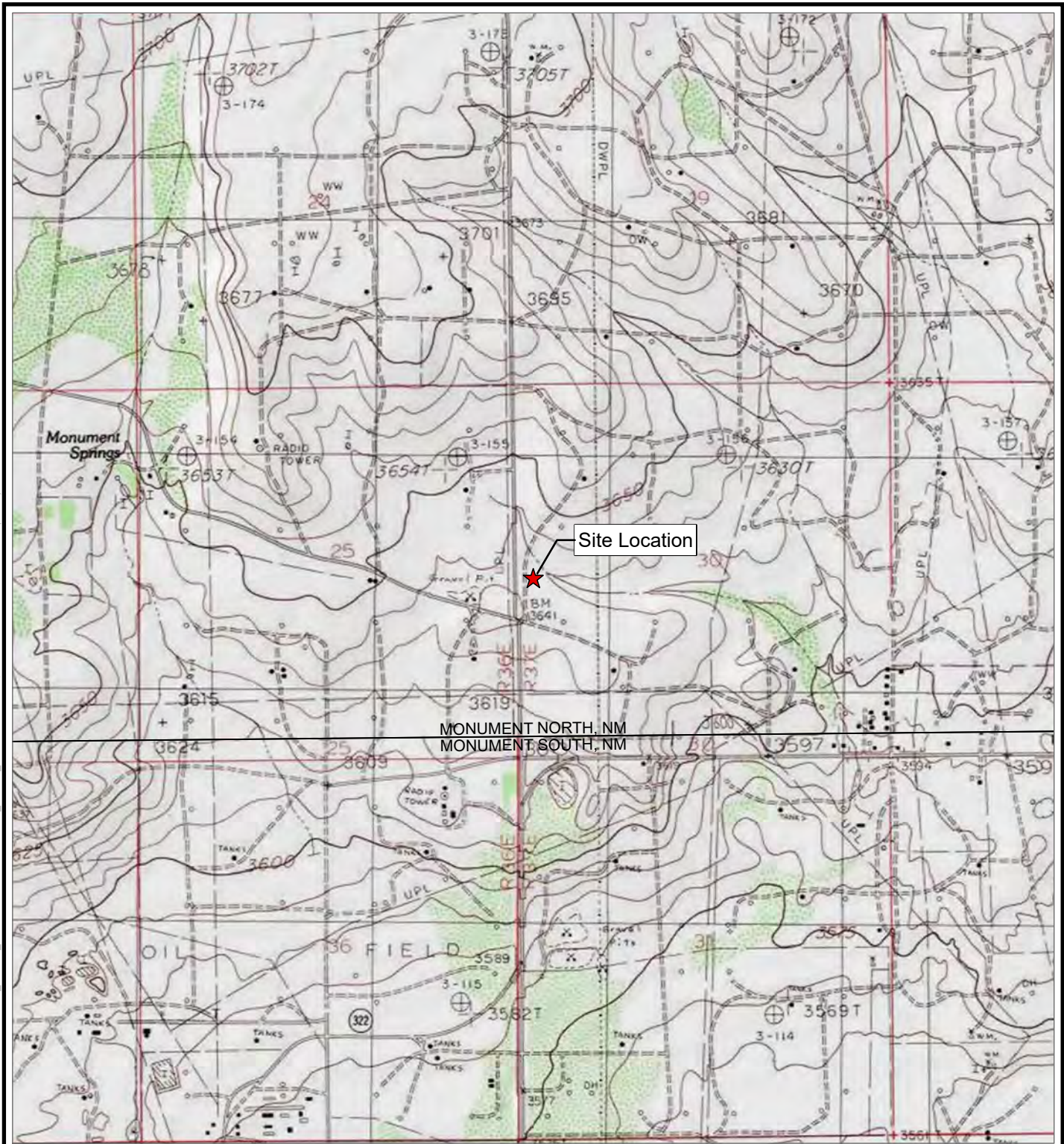
Review for the report titled, Request for Modifications to Stage 2 Abatement Plan HF Sinclair, North Monument 6-Inch Gathering Line AP# 34, Monument, New Mexico

1. Modification to the schedule as proposed is approved.
2. Based on trends demonstrated by the transmissivity test results, EFR schedule may be reduced as proposed in the ST2 modification proposal . Reduce EFR events from monthly to quarterly. (previously approved by OCD)
3. The OCD agrees that the LNAPL plume is stable and decreasing for the portion that remains.
4. Focus EFR events on the western portion and edge of the release.
5. HF Sinclair previously given approval on 07/08/2024 to reduce groundwater monitoring events to semi-annual from quarterly events.
6. Please keep OCD apprised of any other site changes for consideration.



FIGURES

COORDINATE SYSTEM: NAD 1983 STATEPLANE NEW MEXICO EAST FIPS 3001 FEET; MAP ROTATION: 0
 - SAVED BY: EDOUMA ON 11/28/2023, 10:39:22 AM; FILE PATH: T:\1-PROJECTS\HF SINCLAIR\924199, NORTH, MONUMENT\12-APR-92\924199, NORTH, MONUMENT.APRX; LAYOUT NAME: FIG01 - SLM (TOPO)



SITE LOCATION



USGS QUADRANGLE BOUNDARY



0 1,000 2,000

FEET

1:24,000 1" = 2,000'



PROJECT: **HF SINCLAIR CORPORATION**
MONUMENT, LEA COUNTY, NEW MEXICO
NORTH MONUMENT 6-INCH GATHERING LINE, AP #34

TITLE: **SITE LOCATION MAP**

DRAWN BY: E. DOUMA PROJ. NO.: 524199

CHECKED BY:

APPROVED BY:

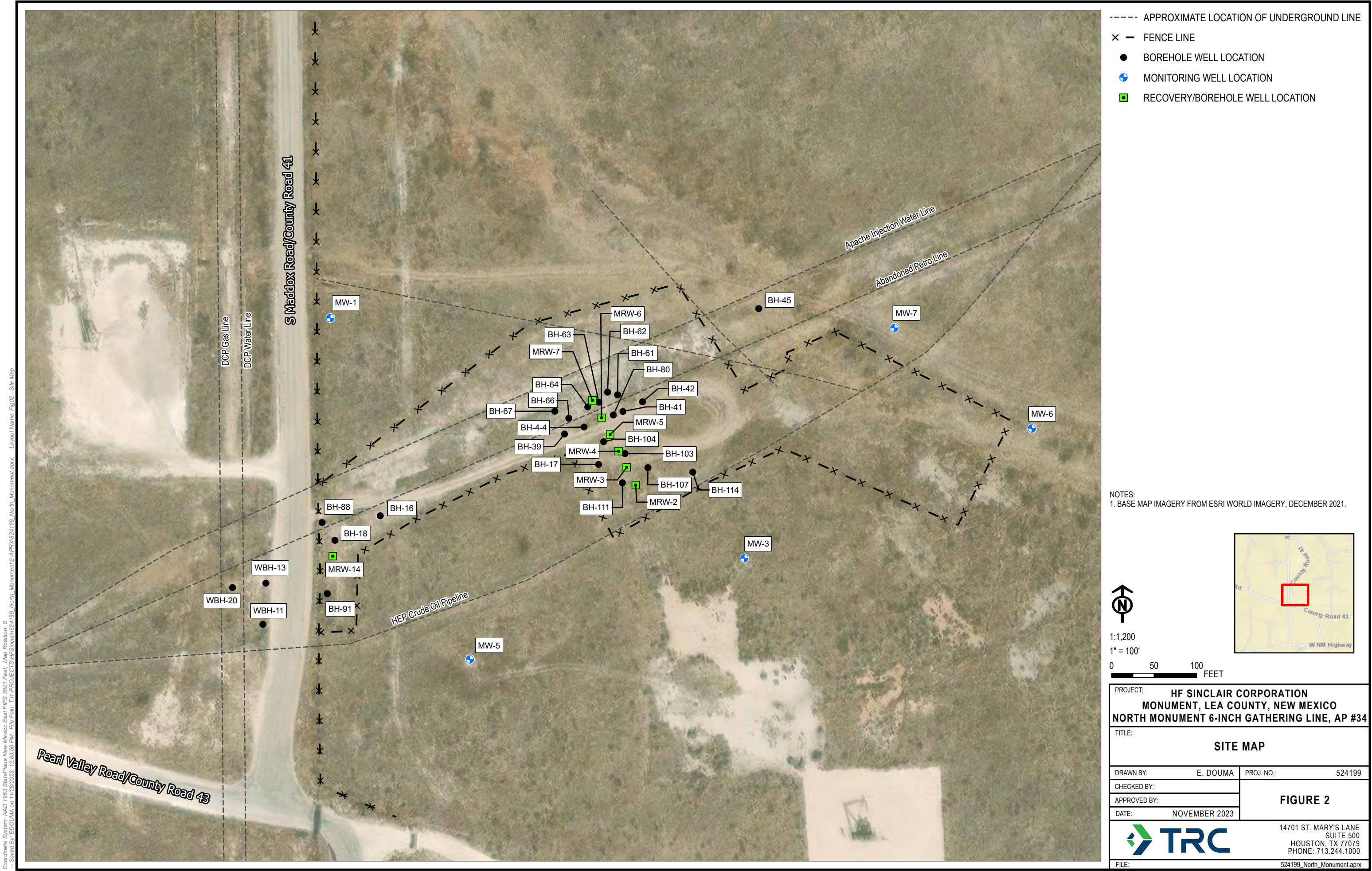
DATE: NOVEMBER 2023

FIGURE 1

14701 ST. MARY'S LANE
 SUITE 500
 HOUSTON, TX 77079
 PHONE: 713.244.1000

BASE MAP: USA TOPO MAPS MAP SERVICE, MONUMENT NORTH, NM

FILE: 524199, NORTH, MONUMENT



TABLES

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
WBH-11	7/26/2012	24.41	25.03	0.62	--
	12/20/2012	24.40	25.69	1.29	0.67
	6/19/2013	24.29	26.36	2.07	0.78
	12/12/2013	23.47	25.27	1.80	-0.27
	6/26/2014	23.32	24.87	1.55	-0.25
	12/18/2014	23.43	24.35	0.92	-0.63
	3/18/2015	24.10	25.04	0.94	0.02
	6/8/2015	23.83	24.50	0.67	-0.27
	9/15/2015	24.40	24.54	0.14	-0.53
	12/16/2015	--	24.29	--	-0.14
	6/6/2016	24.60	24.98	0.38	0.38
	9/25/2016	22.80	22.84	0.04	-0.34
	10/28/2016	22.79	22.84	0.05	0.01
	12/11/2016	--	24.05	--	-0.05
	1/21/2017	--	24.25	--	0.00
	2/19/2017	24.38	24.40	0.02	0.02
	3/14/2017	--	25.40	--	-0.02
	4/20/2017	24.50	24.60	0.10	0.10
	6/6/2017	24.55	24.57	0.02	-0.08
	9/19/2017	23.68	23.72	0.04	0.02
	12/6/2017	24.32	24.42	0.10	0.06
	1/24/2018	24.68	24.75	0.07	-0.03
	2/21/2018	--	24.55	--	-0.07
	3/15/2018	--	22.58	--	0.00
	6/6/2018	--	24.70	--	0.00
	7/17/2018	24.90	24.93	0.03	0.03
	9/24/2018	Trace	24.18	--	-0.03
	10/10/2018	Trace	24.35	--	0.00
	12/11/2018	--	24.20	--	0.00
	3/13/2019	--	24.68	--	0.00
	6/26/2019	--	24.95	--	0.00
	9/21/2019	--	25.04	--	0.00
	12/3/2019	--	24.70	--	0.00
	3/12/2020	--	22.23	--	0.00
	5/20/2020	--	24.80	--	0.00
	6/18/2020	--	25.06	--	0.00
	8/13/2020	--	25.78	--	0.00
	9/15/2020	--	25.40	--	0.00
	12/2/2020	--	24.93	--	0.00
	3/24/2021	--	25.70	--	0.00
	6/8/2021	--	25.82	--	0.00
	8/5/2021	--	22.98	--	0.00
	9/21/2021	--	24.45	--	0.00
	12/2/2021	--	23.23	--	0.00
	3/23/2022	--	23.76	--	0.00
	6/1/2022	--	24.01	--	0.00
	9/28/2022	--	25.91	--	0.00
	12/7/2022	--	26.03	--	0.00
	2/23/2023	--	26.03	--	0.00
	8/14/2023	--	26.50	--	0.00
	10/18/2023	--	25.36	--	0.00

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Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
WBH-13	7/26/2012	24.99	25.05	0.06	--
	12/20/2012	25.04	25.12	0.08	0.02
	6/19/2013	25.16	25.20	0.04	-0.04
	12/12/2013	24.16	24.36	0.20	0.16
	6/26/2014	23.95	24.32	0.37	0.17
	12/18/2014	23.98	24.22	0.24	-0.13
	3/18/2015	24.67	25.05	0.38	0.14
	6/8/2015	24.37	24.48	0.11	-0.27
	9/15/2015	--	24.90	--	-0.11
	12/6/2015	--	24.75	--	0.00
	6/6/2016	25.08	25.24	0.16	0.16
	9/25/2016	23.15	23.38	0.23	0.07
	12/11/2016	24.45	24.90	0.45	0.22
	1/21/2017	24.60	25.07	0.47	0.02
	2/19/2017	24.77	25.37	0.60	0.13
	3/14/2017	24.80	25.30	0.50	-0.10
	4/20/2017	24.90	25.75	0.85	0.35
	6/6/2017	24.80	25.48	0.68	-0.17
	9/19/2017	24.02	24.30	0.28	-0.40
	12/6/2017	23.63	24.20	0.57	0.29
	1/24/2018	24.69	26.29	1.60	1.03
	2/21/2018	22.75	23.40	0.65	-0.95
	3/15/2018	24.67	26.55	1.88	1.23
	6/6/2018	24.68	26.88	2.20	0.32
	7/17/2018	25.00	27.70	2.70	0.50
	9/24/2018	24.40	25.78	1.38	-1.32
	10/10/2018	24.66	25.80	1.14	-0.24
	12/11/2018	24.55	25.75	1.20	0.06
	1/23/2019	24.76	26.60	1.84	0.64
	3/13/2019	24.65	27.35	2.70	0.86
	6/26/2019	25.08	27.17	2.09	-0.61
	9/21/2019	25.15	27.22	2.07	-0.02
	12/3/2019	24.87	26.80	1.93	-0.14
	3/12/2020	24.50	25.83	1.33	-0.60
	5/20/2020	24.90	26.93	2.03	0.70
	6/18/2020	25.10	27.35	2.25	0.22
	8/13/2020	24.48	25.83	1.35	-0.90
	9/15/2020	25.48	27.70	2.22	0.87
	11/12/2020	25.68	27.62	1.94	-0.28
	12/2/2020	24.63	26.25	1.62	-0.32
	3/24/2021	25.90	27.70	1.80	0.18
	6/8/2021	25.90	28.46	2.56	0.76
	8/5/2021	25.23	26.58	1.35	-1.21
	9/21/2021	22.85	23.30	0.45	-0.90
	12/2/2021	25.48	26.52	1.04	0.59
	3/23/2022	26.05	26.80	0.75	-0.29
	6/1/2022	26.33	26.85	0.52	-0.23
	9/28/2022	26.28	27.06	0.78	0.26
	12/7/2022	26.25	26.95	0.70	-0.08
	2/23/2023	26.41	27.12	0.71	0.01
	8/14/2023	26.88	27.59	0.71	0.00
	10/18/2023	25.69	26.06	0.37	-0.34

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
WBH-20	7/26/2012	23.71	24.79	1.08	--
	12/20/2012	23.81	24.92	1.11	0.03
	6/19/2013	23.75	25.11	1.36	0.25
	12/12/2013	22.95	24.10	1.15	-1.00
	6/26/2014	22.76	23.76	1.00	0.64
	12/18/2014	22.81	23.80	0.99	-0.01
	3/18/2015	23.47	24.55	1.08	0.09
	6/8/2015	23.22	23.95	0.73	-0.35
	9/15/2015	23.78	24.02	0.24	-0.49
	12/16/2015	23.65	23.82	0.17	-0.07
	6/6/2016	23.89	25.04	1.15	0.98
	9/25/2016	21.98	23.38	1.40	0.25
	10/28/2016	21.96	23.40	1.44	0.04
	12/11/2016	23.35	24.10	0.75	-0.69
	1/21/2017	24.57	25.07	0.50	-0.25
	2/19/2017	24.70	25.20	0.50	0.00
	3/14/2017	23.70	24.38	0.68	0.18
	4/20/2017	23.80	24.65	0.85	0.17
	6/6/2017	23.95	24.83	0.88	0.03
	9/19/2017	22.97	23.57	0.60	-0.28
	12/6/2017	24.60	25.55	0.95	0.35
	1/24/2018	23.78	24.29	0.51	-0.44
	2/21/2018	22.85	23.64	0.79	0.28
	3/15/2018	23.87	24.77	0.90	0.11
	6/6/2018	23.98	24.98	1.00	0.10
	7/17/2018	24.07	25.60	1.53	0.53
	9/24/2018	22.42	23.58	1.16	-0.37
	10/10/2018	23.66	24.33	0.67	-0.49
	12/11/2018	23.52	24.20	0.68	0.01
	1/23/2019	23.82	24.70	0.88	0.20
	3/13/2019	23.90	25.15	1.25	0.37
	6/26/2019	24.11	25.52	1.41	0.16
	9/21/2019	24.20	25.75	1.55	0.14
	12/3/2019	23.93	25.15	1.22	-0.33
	3/12/2020	23.53	24.28	0.75	-0.47
	5/20/2020	24.00	25.33	1.33	0.58
	6/18/2020	24.20	25.60	1.40	0.07
	8/13/2020	25.38	27.72	2.34	0.94
	9/15/2020	22.58	25.90	3.32	0.98
	11/12/2020	24.80	25.61	0.81	-2.51
	12/2/2020	24.75	25.70	0.95	0.14
	3/24/2021	25.00	25.80	0.80	-0.15
	6/8/2021	25.10	26.08	0.98	0.18
	8/5/2021	24.28	24.80	0.52	-0.46
	9/21/2021	23.95	23.97	0.02	-0.50
	12/2/2021	24.58	24.79	0.21	0.19
	3/23/2022	25.10	25.22	0.12	-0.09
	6/1/2022	25.34	25.44	0.10	-0.02
	9/28/2022	25.31	25.48	0.17	0.07
	12/7/2022	25.28	25.60	0.32	0.15
	2/23/2023	25.39	26.00	0.61	0.29
	8/14/2023	25.72	27.21	1.49	0.88
	10/18/2023	24.73	25.03	0.30	-1.19

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
BH-18	7/26/2012	24.53	25.01	0.48	--
	12/20/2012	24.52	25.12	0.60	0.12
	6/19/2013	24.25	25.36	1.11	0.51
	12/12/2013	--	--	--	-1.11
	6/26/2014	--	--	--	0.00
	12/18/2014	23.51	24.31	0.80	0.80
	3/18/2015	24.28	24.95	0.67	-0.13
	6/9/2015	23.97	24.48	0.51	-0.16
	9/15/2015	24.50	24.65	0.15	-0.36
	12/16/2015	24.36	24.41	0.05	-0.10
	6/6/2016	24.74	24.75	0.01	-0.04
	9/25/2016	--	22.80	--	-0.01
	10/28/2016	--	23.78	--	0.00
	12/11/2016	--	24.14	--	0.00
	1/21/2017	--	24.35	--	0.00
	2/19/2017	--	24.47	--	0.00
	3/14/2017	--	24.15	--	0.00
	4/20/2017	--	24.60	--	0.00
	6/6/2017	--	24.66	--	0.00
	9/19/2017	--	23.88	--	0.00
	12/6/2017	--	24.40	--	0.00
	1/24/2018	--	24.60	--	0.00
	2/21/2018	--	23.90	--	0.00
	3/15/2018	--	24.84	--	0.00
	6/6/2018	--	22.98	--	0.00
	7/17/2018	--	23.02	--	0.00
	9/24/2018	--	22.25	--	0.00
	10/10/2018	--	22.64	--	0.00
	12/11/2018	--	24.30	--	0.00
	3/13/2019	--	24.70	--	0.00
	6/26/2019	--	24.35	--	0.00
	9/21/2019	--	23.04	--	0.00
	12/3/2019	24.85	24.90	0.05	0.05
	3/12/2020	24.10	24.15	0.05	0.00
	5/20/2020	--	24.55	--	-0.05
	6/18/2020	--	24.60	--	0.00
	9/15/2020	--	24.07	--	0.00
	12/2/2020	--	24.85	--	0.00
	3/24/2021	--	25.92	--	0.00
	6/8/2021	25.85	26.00	0.15	0.15
	8/5/2021	25.18	25.20	0.02	-0.13
	9/21/2021	--	24.63	--	-0.02
	12/2/2021	Trace	23.52	--	0.00
	3/23/2022	Trace	23.95	--	0.00
	6/1/2022	Trace	24.26	--	0.00
	9/28/2022	25.99	26.13	0.14	0.14
	12/7/2022	26.03	26.08	0.05	-0.09
	2/23/2023	26.14	26.38	0.24	0.19
	8/14/2023	26.54	26.83	0.29	0.05
	10/18/2023	25.40	25.57	0.17	-0.12

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
BH-4-4	7/26/2012	18.88	19.05	0.17	--
	12/20/2012	18.90	19.07	0.17	0.00
	6/19/2013	19.02	19.28	0.26	0.09
	12/12/2013	18.04	18.43	0.39	0.13
	6/26/2014	17.91	18.65	0.74	0.35
	12/18/2014	17.90	18.49	0.59	-0.15
	3/18/2015	18.66	19.22	0.56	-0.03
	6/8/2015	18.23	18.77	0.54	-0.02
	9/15/2015	18.87	18.98	0.11	-0.43
	12/16/2015	--	18.71	--	-0.11
	6/6/2016	24.83	24.84	0.01	0.01
	9/25/2016	--	17.22	--	-0.01
	10/28/2016	18.02	18.06	0.04	0.04
	12/11/2016	18.48	18.55	0.07	0.03
	1/21/2017	--	18.65	--	-0.07
	2/19/2017	18.78	18.80	0.02	0.02
	3/14/2017	--	18.83	--	-0.02
	4/20/2017	18.95	19.05	0.10	0.10
	6/6/2017	18.97	18.99	0.02	-0.08
	9/19/2017	18.08	18.11	0.03	0.01
	12/6/2017	--	18.80	--	-0.03
	1/24/2018	19.94	20.00	0.06	0.06
	2/21/2018	--	19.26	--	-0.06
	3/15/2018	--	19.26	--	0.00
	6/6/2018	--	19.16	--	0.00
	7/17/2018	--	19.33	--	0.00
	9/24/2018	--	19.06	--	0.00
	10/10/2018	--	19.24	--	0.00
	12/11/2018	--	18.97	--	0.00
	1/23/2019	--	19.02	--	0.00
	3/13/2019	--	19.10	--	0.00
	6/26/2019	--	19.46	--	0.00
	9/21/2019	--	19.50	--	0.00
	12/3/2019	--	19.42	--	0.00
	3/12/2020	--	18.65	--	0.00
	5/20/2020	--	18.88	--	0.00
	6/18/2020	20.42	20.48	0.06	0.06
	9/15/2020	--	20.18	--	-0.06
	12/2/2020	--	19.82	--	0.00
	3/24/2021	--	19.00	--	0.00
	6/8/2021	--	20.53	--	0.00
	8/5/2021	--	19.48	--	0.00
	9/21/2021	--	20.05	--	0.00
	12/2/2021	--	20.68	--	0.00
	3/23/2022	--	21.07	--	0.00
	6/1/2022	--	21.34	--	0.00
	9/28/2022	--	21.84	--	0.00
	12/7/2022	--	21.98	--	0.00
	2/23/2023	20.41	20.51	0.10	0.10
	8/14/2023	20.77	21.72	0.95	0.85
	10/18/2023	19.59	19.65	0.06	

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
BH-16	7/26/2012	22.85	23.20	0.35	--
	12/20/2012	22.83	23.17	0.34	-0.01
	6/19/2013	22.90	23.32	0.42	0.08
	12/12/2013	22.08	22.50	0.42	0.00
	6/26/2014	21.89	22.33	0.44	0.02
	12/18/2014	21.90	22.31	0.41	-0.03
	3/18/2015	22.57	23.05	0.48	0.07
	6/9/2015	22.29	22.63	0.34	-0.14
	9/15/2015	22.78	22.88	0.10	-0.24
	12/16/2015	22.65	22.81	0.16	0.06
	6/6/2016	23.01	23.21	0.20	0.04
	9/25/2016	21.10	21.40	0.30	0.10
	10/28/2016	21.98	22.09	0.11	-0.19
	12/11/2016	22.42	22.58	0.16	0.05
	1/21/2017	22.62	22.73	0.11	-0.05
	2/19/2017	22.70	22.86	0.16	0.05
	3/14/2017	22.76	22.90	0.14	-0.02
	4/20/2017	22.85	23.10	0.25	0.11
	6/6/2017	22.92	23.03	0.11	-0.14
	9/19/2017	--	21.04	--	-0.11
	12/6/2017	22.84	22.95	0.11	0.11
	1/24/2018	22.82	23.02	0.20	0.09
	2/21/2018	22.90	23.04	0.14	-0.06
	3/15/2018	--	22.97	--	-0.14
	6/6/2018	23.10	23.20	0.10	0.10
	7/17/2019	23.22	23.60	0.38	0.28
	9/24/2018	22.50	22.85	0.35	-0.03
	10/10/2018	22.70	22.95	0.25	-0.10
	12/11/2018	22.58	22.70	0.12	-0.13
	1/23/2019	22.92	23.02	0.10	-0.02
	3/13/2019	23.00	23.10	0.10	0.00
	6/26/2019	23.60	23.83	0.23	0.13
	9/21/2019	23.60	23.75	0.15	-0.08
	12/3/2019	23.05	23.32	0.27	0.12
	3/12/2020	22.58	22.98	0.40	0.13
	5/20/2020	23.11	23.60	0.49	0.09
	6/18/2020	23.26	23.66	0.40	-0.09
	9/15/2020	23.77	23.97	0.20	-0.20
	12/2/2020	--	23.42	--	-0.20
	3/24/2021	24.05	24.40	0.35	0.35
	6/8/2021	24.12	25.00	0.88	0.53
	8/5/2021	23.38	23.82	0.44	-0.44
	9/21/2021	--	23.63	--	-0.44
	12/2/2021	23.52	23.78	0.26	0.26
	3/23/2022	24.08	24.22	0.14	-0.12
	6/1/2022	24.32	24.48	0.16	0.02
	9/28/2022	24.26	24.51	0.25	0.09
	12/7/2022	24.20	24.40	0.20	-0.05
	2/23/2023	24.36	24.70	0.34	0.14
	8/14/2023	24.83	25.23	0.40	0.06
	10/18/2023	23.64	23.82	0.18	1.74

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
BH-17	7/26/2012	21.85	22.45	0.60	--
	12/20/2012	21.77	23.08	1.31	0.71
	6/19/2013	21.63	23.82	2.19	0.88
	12/12/2013	20.92	22.66	1.74	-0.45
	6/26/2014	20.80	22.72	1.92	0.18
	12/18/2014	20.89	21.98	1.09	-0.83
	3/18/2015	21.64	22.23	0.59	-0.50
	6/8/2015	21.30	21.87	0.57	-0.02
	9/15/2015	21.70	23.31	1.61	1.04
	12/16/2015	21.43	23.53	2.10	0.49
	6/6/2016	21.67	24.57	2.90	0.80
	9/25/2016	20.13	20.31	0.18	-2.72
	10/28/2016	20.99	21.56	0.57	0.39
	12/11/2016	21.30	22.60	1.30	0.73
	1/21/2017	21.55	22.80	1.25	-0.05
	2/19/2017	21.66	22.97	1.31	0.06
	3/14/2017	21.72	22.90	1.18	-0.13
	4/20/2017	21.80	23.15	1.35	0.17
	6/6/2017	21.87	22.96	1.09	-0.26
	9/19/2017	21.11	21.40	0.29	-0.80
	12/6/2017	21.70	22.48	0.78	0.49
	1/24/2018	21.76	23.25	1.49	0.71
	2/21/2018	21.84	23.25	1.41	-0.08
	3/15/2018	21.88	23.10	1.22	-0.19
	6/6/2018	22.04	23.02	0.98	-0.24
	7/17/2018	22.72	23.96	1.24	0.26
	9/24/2018	20.73	22.17	1.44	0.20
	10/10/2018	21.70	22.72	1.02	-0.42
	12/11/2018	21.49	22.65	1.16	0.14
	1/23/2019	21.74	23.20	1.46	0.30
	3/13/2019	21.90	23.35	1.45	-0.01
	6/26/2019	22.20	23.34	1.14	-0.31
	9/21/2019	22.30	23.55	1.25	0.11
	12/3/2019	22.05	22.95	0.90	-0.35
	3/12/2020	21.45	23.08	1.63	0.73
	5/20/2020	22.20	22.85	0.65	-0.98
	6/18/2020	22.22	23.32	1.10	0.45
	8/13/2020	22.52	23.98	1.46	0.36
	9/15/2020	21.48	22.52	1.04	-0.42
	11/12/2020	22.75	24.38	1.63	0.59
	12/2/2020	22.63	24.75	2.12	0.49
	3/24/2021	22.80	25.18	2.38	0.26
	6/8/2021	22.90	25.45	2.55	0.17
	8/5/2021	22.20	24.04	1.84	-0.71
	9/21/2021	21.83	22.65	0.82	-1.02
	12/2/2021	22.58	23.24	0.66	-0.16
	3/23/2022	23.00	24.10	1.10	0.44
	6/1/2022	23.28	24.07	0.79	-0.31
	9/28/2022	23.11	24.48	1.37	0.58
	12/7/2022	23.05	24.25	1.20	-0.17
	2/23/2023	23.08	25.14	2.06	0.86
	8/14/2023	23.58	25.72	2.14	0.08
	10/18/2023	22.52	23.38	0.86	-1.28

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
BH-18	7/26/2012	24.53	25.01	0.48	--
	12/20/2012	24.52	25.12	0.60	0.12
	6/19/2013	24.25	25.36	1.11	0.51
	12/12/2013	--	--	--	-1.11
	6/26/2014	--	--	--	0.00
	12/18/2014	23.51	24.31	0.80	0.80
	3/18/2015	24.28	24.95	0.67	-0.13
	6/9/2015	23.97	24.48	0.51	-0.16
	9/15/2015	24.50	24.65	0.15	-0.36
	12/16/2015	24.36	24.41	0.05	-0.10
	6/6/2016	24.74	24.75	0.01	-0.04
	9/25/2016	--	22.80	--	-0.01
	10/28/2016	--	23.78	--	0.00
	12/11/2016	--	24.14	--	0.00
	1/21/2017	--	24.35	--	0.00
	2/19/2017	--	24.47	--	0.00
	3/14/2017	--	24.15	--	0.00
	4/20/2017	--	24.60	--	0.00
	6/6/2017	--	24.66	--	0.00
	9/19/2017	--	23.88	--	0.00
	12/6/2017	--	24.40	--	0.00
	1/24/2018	--	24.60	--	0.00
	2/21/2018	--	23.90	--	0.00
	3/15/2018	--	24.84	--	0.00
	6/6/2018	--	22.98	--	0.00
	7/17/2018	--	23.02	--	0.00
	9/24/2018	--	22.25	--	0.00
	10/10/2018	--	22.64	--	0.00
	12/11/2018	--	24.30	--	0.00
	3/13/2019	--	24.70	--	0.00
	6/26/2019	--	24.35	--	0.00
	9/21/2019	--	23.04	--	0.00
	12/3/2019	24.85	24.90	0.05	0.05
	3/12/2020	24.10	24.15	0.05	0.00
	5/20/2020	--	24.55	--	-0.05
	6/18/2020	--	24.60	--	0.00
	9/15/2020	--	24.07	--	0.00
	12/2/2020	--	24.85	--	0.00
	3/24/2021	--	25.92	--	0.00
	6/8/2021	25.85	26.00	0.15	0.15
	8/5/2021	25.18	25.20	0.02	-0.13
	9/21/2021	--	24.63	--	-0.02
	12/2/2021	Trace	23.52	--	0.00
	3/23/2022	Trace	23.95	--	0.00
	6/1/2022	Trace	24.26	--	0.00
	9/28/2022	25.99	26.13	0.14	0.14
	12/7/2022	26.03	26.08	0.05	-0.09
	2/23/2023	26.14	26.38	0.24	0.19
	8/14/2023	26.54	26.83	0.29	0.05
	10/18/2023	25.40	25.57	0.17	-0.12

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
BH-39	7/26/2012	20.10	20.31	0.21	--
	12/20/2012	20.04	20.36	0.32	0.11
	6/19/2013	20.11	20.62	0.51	0.19
	12/12/2013	18.45	18.95	0.50	-0.01
	6/26/2014	18.37	18.85	0.48	-0.02
	12/18/2014	18.50	19.39	0.89	0.41
	3/18/2015	18.99	20.00	1.01	0.12
	6/8/2015	18.64	19.50	0.86	-0.15
	9/15/2015	19.28	19.64	0.36	-0.50
	12/16/2015	19.10	19.49	0.39	0.03
	6/6/2016	19.39	20.10	0.71	0.32
	9/25/2016	17.58	18.18	0.60	-0.11
	10/28/2016	18.42	19.09	0.67	0.07
	12/11/2016	18.75	19.90	1.15	0.48
	1/21/2017	18.95	20.08	1.13	-0.02
	2/19/2017	19.08	20.18	1.10	-0.03
	3/14/2017	19.10	20.15	1.05	-0.05
	4/20/2017	19.30	20.40	1.10	0.05
	6/6/2017	19.31	20.42	1.11	0.01
	9/19/2017	18.50	19.08	0.58	-0.53
	12/6/2017	19.15	19.70	0.55	-0.03
	1/24/2018	19.25	19.90	0.65	0.10
	2/21/2018	19.38	20.32	0.94	0.29
	3/15/2018	19.38	20.17	0.79	-0.15
	6/6/2018	19.46	20.28	0.82	0.03
	7/17/2018	19.45	20.76	1.31	0.49
	9/24/2018	18.83	20.25	1.42	0.11
	10/10/2018	19.06	20.24	1.18	-0.24
	12/11/2018	18.90	19.80	0.90	-0.28
	1/23/2019	19.82	21.12	1.30	0.40
	3/13/2019	19.40	20.05	0.65	-0.65
	6/26/2019	19.68	20.44	0.76	0.11
	9/21/2019	19.75	20.65	0.90	0.14
	12/3/2019	19.42	20.55	1.13	0.23
	3/12/2020	18.87	20.17	1.30	0.17
	5/20/2020	19.52	20.20	0.68	-0.62
	6/18/2020	19.75	20.74	0.99	0.31
	8/13/2020	20.05	20.78	0.73	-0.26
	9/15/2020	20.20	20.70	0.50	-0.23
	11/12/2020	20.35	20.95	0.60	0.10
	12/2/2020	20.44	21.54	1.10	0.50
	3/24/2021	20.42	21.60	1.18	0.08
	6/8/2021	20.40	22.18	1.78	0.60
	8/5/2021	19.68	20.46	0.78	-1.00
	9/21/2021	19.33	20.43	1.10	0.32
	12/2/2021	20.05	20.98	0.93	-0.17
	3/23/2022	20.08	20.35	0.27	-0.66
	6/1/2022	20.58	21.12	0.54	0.27
	9/28/2022	20.73	21.95	1.22	0.68
	12/7/2022	21.50	22.58	1.08	-0.14
	2/23/2023	20.63	22.26	1.63	-0.71
	8/14/2023	21.12	22.53	1.41	1.04
	10/18/2023	20.00	20.59	0.59	-0.82

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
BH-41	7/26/2012	18.90	19.46	0.56	--
	12/20/2012	18.94	19.49	0.55	-0.01
	6/19/2013	19.03	19.73	0.70	0.15
	12/12/2013	18.09	18.63	0.54	-0.16
	6/26/2014	18.01	18.65	0.64	0.10
	12/18/2014	17.98	18.72	0.74	0.10
	3/18/2015	18.65	19.31	0.66	-0.08
	6/8/2015	18.32	18.70	0.38	-0.28
	9/15/2015	18.93	19.30	0.37	-0.01
	12/16/2015	18.77	18.94	0.17	-0.20
	6/6/2016	19.33	19.34	0.01	-0.16
	9/25/2016	--	17.22	--	-0.01
	10/28/2016	18.15	18.17	0.02	0.02
	12/11/2016	--	18.53	--	-0.02
	1/21/2017	--	18.73	--	0.00
	2/19/2017	18.87	18.92	0.05	0.05
	3/14/2017	18.90	18.95	0.05	0.00
	4/20/2017	19.00	19.15	0.15	0.10
	6/6/2017	19.02	19.40	0.38	0.23
	9/19/2017	18.20	18.55	0.35	-0.03
	12/6/2017	18.75	19.55	0.80	0.45
	1/24/2018	18.90	19.60	0.70	-0.10
	2/21/2018	19.00	19.62	0.62	-0.08
	3/15/2018	18.98	19.74	0.76	0.14
	6/6/2018	19.11	19.90	0.79	0.03
	7/17/2018	19.27	20.22	0.95	0.16
	9/24/2018	18.50	19.60	1.10	0.15
	10/10/2018	18.80	19.15	0.35	-0.75
	12/11/2018	19.12	20.35	1.23	0.88
	1/23/2019	18.92	19.60	0.68	-0.55
	3/13/2019	19.10	19.50	0.40	-0.28
	6/26/2019	19.40	20.03	0.63	0.23
	9/21/2019	20.45	21.19	0.74	0.11
	12/3/2019	19.11	19.90	0.79	0.05
	3/12/2020	18.60	19.18	0.58	-0.21
	5/20/2020	19.28	19.77	0.49	-0.09
	6/18/2020	19.06	19.45	0.39	-0.10
	8/13/2020	19.68	20.80	1.12	0.73
	9/15/2020	19.80	20.45	0.65	-0.47
	11/12/2020	19.93	20.60	0.67	0.02
	12/2/2020	20.08	21.10	1.02	0.35
	3/24/2021	20.05	20.95	0.90	-0.12
	6/8/2021	20.20	21.15	0.95	0.05
	8/5/2021	19.45	19.85	0.40	-0.55
	9/21/2021	18.95	19.25	0.30	-0.10
	12/2/2021	19.65	20.22	0.57	0.27
	3/23/2022	20.15	20.65	0.50	-0.07
	6/1/2022	20.42	20.73	0.31	-0.19
	9/28/2022	20.32	20.97	0.65	0.34
	12/7/2022	20.20	20.28	0.08	-0.57
	2/23/2023	20.21	20.39	0.18	0.74
	8/14/2023	20.77	22.23	1.46	0.64
	10/18/2023	19.69	19.70	0.01	-1.45

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
BH-42	7/26/2012	19.52	20.43	0.91	--
	12/20/2012	19.55	20.36	0.81	-0.10
	6/19/2013	19.65	20.50	0.85	0.04
	12/12/2013	18.69	19.53	0.84	-0.01
	6/26/2014	18.66	19.52	0.86	0.02
	12/18/2014	18.65	19.05	0.40	-0.46
	3/18/2015	19.31	19.77	0.46	0.06
	6/8/2015	19.02	19.31	0.29	-0.17
	9/15/2015	19.58	19.88	0.30	0.01
	12/16/2015	19.38	19.70	0.32	0.02
	6/6/2016	19.84	19.94	0.10	-0.22
	9/25/2016	--	17.80	--	-0.10
	10/28/2016	--	18.75	--	0.00
	12/11/2016	--	Dry	--	0.00
	1/21/2017	--	Dry	--	0.00
	2/19/2017	--	Dry	--	0.00
	3/14/2017	--	Dry	--	0.00
	4/20/2017	19.70	19.80	0.10	0.10
	6/6/2017	19.73	19.80	0.07	-0.03
	9/19/2017	18.78	19.10	0.32	0.25
	12/6/2017	19.43	19.90	0.47	0.15
	1/24/2018	19.62	19.90	0.28	-0.19
	2/21/2018	19.70	19.98	0.28	0.00
	3/15/2018	19.95	20.07	0.12	-0.16
	6/6/2018	20.08	20.53	0.45	0.33
	7/17/2018	21.05	21.34	0.29	-0.16
	9/24/2018	20.18	20.95	0.77	0.48
	10/10/2018	19.35	20.28	0.93	0.16
	12/11/2018	19.12	20.35	1.23	0.30
	1/23/2019	19.45	20.60	1.15	-0.08
	3/13/2019	19.70	20.45	0.75	-0.40
	6/26/2019	20.00	20.45	0.45	-0.30
	9/21/2019	20.14	20.65	0.51	0.06
	12/3/2019	19.80	20.18	0.38	-0.13
	3/12/2020	18.28	18.58	0.30	-0.08
	5/20/2020	19.90	20.28	0.38	0.08
	6/18/2020	20.38	20.52	0.14	-0.24
	8/13/2020	20.32	20.83	0.51	0.37
	9/15/2020	20.48	20.88	0.40	-0.11
	11/12/2020	20.63	20.92	0.29	-0.11
	12/2/2020	20.75	21.30	0.55	0.26
	3/24/2021	21.17	21.34	0.17	-0.38
	6/8/2021	20.06	20.22	0.16	-0.01
	8/5/2021	20.08	20.25	0.17	0.01
	9/21/2021	--	19.60	--	-0.17
	12/2/2021	20.35	20.42	0.07	0.07
	3/23/2022	20.80	20.90	0.10	0.03
	6/1/2022	Trace	21.08	--	-0.10
	9/28/2022	20.97	21.06	0.09	0.09
	12/7/2022	20.90	21.04	0.14	0.05
	2/23/2023	21.02	21.32	0.30	0.16
	8/14/2023	21.55	21.77	0.22	-0.30
	10/18/2023	--	20.25	--	0.00

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
BH-45	7/26/2012	16.17	17.70	1.53	--
	12/20/2012	16.20	16.72	0.52	-1.01
	6/19/2013	16.31	17.00	0.69	0.17
	12/12/2013	15.20	15.48	0.28	-0.41
	6/26/2014	14.99	15.29	0.30	0.02
	12/18/2014	15.17	15.20	0.03	-0.27
	3/18/2015	--	18.92	--	-0.03
	6/8/2015	--	15.53	--	0.00
	9/15/2015	16.14	16.15	0.01	0.01
	12/16/2015	15.94	15.96	0.02	0.01
	6/6/2016	16.36	16.40	0.04	0.02
	9/25/2016	--	14.18	--	-0.04
	12/11/2016	--	15.62	--	0.00
	1/21/2017	--	15.89	--	0.00
	2/19/2017	--	16.04	--	0.00
	3/14/2017	--	14.08	--	0.00
	4/20/2017	--	16.20	--	0.00
	6/6/2017	--	16.25	--	0.00
	9/19/2017	--	15.20	--	0.00
	12/6/2017	--	15.95	--	0.00
	1/24/2018	--	16.07	--	0.00
	2/21/2018	--	16.16	--	0.00
	3/15/2018	--	16.28	--	0.00
	6/6/2018	--	16.78	--	0.00
	7/17/2018	Trace	15.86	Trace	0.00
	9/24/2018	--	15.77	--	0.00
	10/10/2018	--	15.97	--	0.00
	12/11/2018	--	15.70	--	0.00
	3/13/2019	--	16.40	--	0.00
	6/26/2019	--	16.32	--	0.00
	9/21/2019	--	16.85	--	0.00
	12/3/2019	--	16.45	--	0.00
	3/12/2020	--	15.88	--	0.00
	5/20/2020	--	16.55	--	0.00
	6/18/2020	--	16.68	--	0.00
	9/15/2020	--	17.12	--	0.00
	12/2/2020	--	16.34	--	0.00
	3/24/2021	--	16.03	--	0.00
	6/8/2021	--	16.55	--	0.00
	8/5/2021	--	16.33	--	0.00
	9/21/2021	--	17.22	--	0.00
	12/2/2021	--	17.99	--	0.00
	3/23/2022	--	18.21	--	0.00
	6/1/2022	--	18.54	--	0.00
	9/28/2022	--	17.38	--	0.00
	12/7/2022	--	17.76	--	0.00
	2/23/2023	--	17.58	--	0.00
	8/14/2023	18.17	18.36	0.19	0.19
	10/18/2023	16.66	16.79	0.13	-0.06

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
BH-61	7/26/2012	19.46	19.97	0.51	--
	12/20/2012	19.49	20.03	0.54	0.03
	6/19/2013	19.55	20.10	0.55	0.01
	12/12/2013	18.61	19.25	0.64	0.09
	6/26/2014	18.51	19.16	0.65	0.01
	12/18/2014	18.55	19.28	0.73	0.08
	8/13/2015	19.19	19.85	0.66	-0.07
	6/8/2015	18.88	19.00	0.12	-0.54
	9/15/2015	--	19.48	--	-0.12
	12/16/2015	--	19.30	--	0.00
	6/6/2016	19.80	19.81	0.01	0.01
	9/25/2016	--	17.85	--	-0.01
	10/28/2016	--	17.82	--	0.00
	12/11/2016	19.02	19.07	0.05	0.05
	1/21/2017	19.22	19.30	0.08	0.03
	2/19/2017	19.35	19.49	0.14	0.06
	3/14/2017	19.40	19.45	0.05	-0.09
	4/20/2017	19.50	19.60	0.10	0.05
	6/6/2017	19.52	19.58	0.06	-0.04
	9/19/2017	18.66	19.09	0.43	0.37
	12/6/2017	19.30	19.55	0.25	-0.18
	1/24/2018	17.48	17.68	0.20	-0.05
	2/21/2018	19.82	19.90	0.08	-0.12
	3/15/2018	19.55	20.04	0.49	0.41
	6/6/2018	19.69	19.83	0.14	-0.35
	7/17/2018	19.83	20.17	0.34	0.20
	9/24/2018	19.08	19.42	0.34	0.00
	10/10/2018	19.30	19.60	0.30	-0.04
	12/11/2018	19.11	19.35	0.24	-0.06
	3/13/2019	18.65	18.93	0.28	0.04
	6/26/2019	--	19.90	--	-0.28
	9/21/2019	19.98	20.25	0.27	0.27
	12/3/2019	19.80	19.85	0.05	-0.22
	3/12/2020	--	19.25	--	-0.05
	5/20/2020	--	19.90	--	0.00
	6/18/2020	20.05	20.18	0.13	0.13
	8/13/2020	--	20.84	--	-0.13
	9/15/2020	20.55	20.80	0.25	0.25
	11/12/2020	21.68	21.70	0.02	-0.23
	12/2/2020	19.76	19.92	0.16	0.14
	3/24/2021	--	20.95	--	-0.16
	6/8/2021	20.98	21.02	0.04	0.04
	8/5/2021	20.34	20.36	0.02	-0.02
	9/21/2021	--	19.48	--	-0.02
	12/2/2021	--	19.79	--	0.00
	3/23/2022	--	21.05	--	0.00
	6/1/2022	--	21.44	--	0.00
	9/28/2022	--	21.12	--	0.00
	12/7/2022	--	20.92	--	0.00
	2/23/2023	21.00	21.12	0.12	0.12
	8/14/2023	21.51	21.76	0.25	0.13
	10/18/2023	20.21	20.35	0.14	-0.11

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
BH-62	7/26/2012	18.88	19.67	0.79	--
	12/20/2012	18.85	19.82	0.97	0.18
	6/19/2013	18.90	20.28	1.38	0.41
	12/12/2013	17.94	19.28	1.34	-0.04
	6/26/2014	17.83	19.13	1.30	-0.04
	12/18/2014	17.90	19.30	1.40	0.10
	3/18/2015	18.51	19.91	1.40	0.00
	6/8/2015	18.24	18.93	0.69	-0.71
	9/15/2015	--	18.90	--	-0.69
	12/16/2015	18.69	18.70	0.01	0.01
	6/6/2016	19.01	19.08	0.07	0.06
	9/25/2016	--	17.40	--	-0.07
	10/28/2016	--	17.58	--	0.00
	12/11/2016	--	18.45	--	0.00
	1/21/2017	--	18.66	--	0.00
	2/19/2017	--	18.82	--	0.00
	3/14/2017	--	18.85	--	0.00
	4/20/2017	18.95	19.00	0.05	0.05
	6/6/2017	18.97	19.00	0.03	-0.02
	9/19/2017	18.18	18.40	0.22	0.19
	12/6/2017	--	18.80	--	-0.22
	1/24/2018	18.95	19.00	0.05	0.05
	2/21/2018	19.04	19.10	0.06	0.01
	3/15/2018	19.06	19.11	0.05	-0.01
	6/6/2018	19.18	19.40	0.22	0.17
	7/17/2018	20.34	20.74	0.40	0.18
	9/24/2018	18.60	18.72	0.12	-0.28
	10/10/2018	18.80	18.83	0.03	-0.09
	12/11/2018	18.60	18.72	0.12	0.09
	3/13/2019	19.15	19.25	0.10	-0.02
	6/26/2019	--	19.45	--	-0.10
	9/21/2019	19.45	19.80	0.35	0.35
	12/3/2019	19.18	19.32	0.14	-0.21
	3/12/2020	18.60	18.70	0.10	-0.04
	5/20/2020	19.35	19.50	0.15	0.05
	6/18/2020	19.50	19.68	0.18	0.03
	8/13/2020	20.82	20.88	0.06	-0.12
	9/15/2020	19.95	20.05	0.10	0.04
	11/12/2020	21.00	21.05	0.05	-0.05
	12/2/2020	20.20	20.30	0.10	0.05
	3/24/2021	--	20.25	--	-0.10
	6/8/2021	20.88	21.22	0.34	0.34
	8/5/2021	--	19.50	--	-0.34
	9/21/2021	--	18.99	--	0.00
	12/2/2021	--	19.78	--	0.00
	3/23/2022	--	21.38	--	0.00
	6/1/2022	--	21.77	--	0.00
	9/28/2022	--	20.58	--	0.00
	12/7/2022	--	21.44	--	0.00
	2/23/2023	20.50	20.54	0.04	0.04
	8/14/2023	--	20.99	--	-0.04
	10/18/2023	--	19.71	--	0.00

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
BH-63	7/26/2012	19.71	20.05	0.34	--
	12/20/2012	--	20.06	--	-0.34
	6/19/2013	19.80	20.31	0.51	0.51
	12/12/2013	18.83	19.55	0.72	0.21
	6/26/2014	18.72	19.58	0.86	0.14
	12/18/2014	18.80	20.05	1.25	0.39
	3/18/2015	19.37	20.38	1.01	-0.24
	6/8/2015	19.08	19.36	0.28	-0.73
	9/15/2015	19.68	19.96	0.28	0.00
	12/16/2015	--	19.55	--	-0.28
	6/6/2016	19.81	20.27	0.46	0.46
	9/25/2016	17.98	18.38	0.40	-0.06
	10/28/2016	17.95	18.40	0.45	0.05
	12/11/2016	19.28	19.58	0.30	-0.15
	1/21/2017	19.45	20.00	0.55	0.25
	2/19/2017	19.57	20.18	0.61	0.06
	3/14/2017	19.60	20.06	0.46	-0.15
	4/20/2017	19.70	20.40	0.70	0.24
	6/6/2017	19.75	20.15	0.40	-0.30
	9/19/2017	18.88	19.14	0.26	-0.14
	12/6/2017	19.46	19.50	0.04	-0.22
	1/24/2018	19.65	20.43	0.78	0.74
	2/21/2018	19.75	20.40	0.65	-0.13
	3/15/2018	19.78	20.33	0.55	-0.10
	6/6/2018	19.92	20.29	0.37	-0.18
	7/17/2018	20.34	20.74	0.40	0.03
	9/24/2018	19.28	20.28	1.00	0.60
	10/10/2018	18.53	18.87	0.34	-0.66
	12/11/2018	19.32	20.10	0.78	0.44
	1/23/2019	19.67	20.40	0.73	-0.05
	3/13/2019	19.85	20.33	0.48	-0.25
	6/26/2019	20.10	20.60	0.50	0.02
	9/21/2019	20.25	20.50	0.25	-0.25
	12/3/2019	19.90	20.90	1.00	0.75
	3/12/2020	19.38	19.65	0.27	-0.73
	5/20/2020	20.02	20.33	0.31	0.04
	6/18/2020	20.22	20.62	0.40	0.09
	8/13/2020	20.48	20.93	0.45	0.05
	9/15/2020	20.65	20.75	0.10	-0.35
	11/12/2020	20.75	20.85	0.10	0.00
	12/2/2020	20.95	21.05	0.10	0.00
	3/24/2021	--	21.00	--	-0.10
	6/8/2021	21.10	21.15	0.05	0.05
	8/5/2021	20.09	20.55	0.46	0.41
	9/21/2021	19.63	19.65	0.02	-0.44
	12/2/2021	20.42	20.43	0.01	-0.01
	3/23/2022	--	20.98	--	-0.01
	6/1/2022	Trace	21.22	--	0.00
	9/28/2022	21.18	21.22	0.04	0.04
	12/7/2022	21.00	21.14	0.14	0.10
	2/23/2023	21.23	21.33	0.10	-0.04
	8/14/2023	21.68	22.08	0.40	0.30
	10/18/2023	--	20.42	--	-0.40

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
BH-64	7/26/2012	20.00	21.64	1.64	--
	12/20/2012	19.93	22.09	2.16	0.52
	6/19/2013	20.07	22.40	2.33	0.17
	12/12/2013	19.01	21.67	2.66	0.33
	6/26/2014	18.91	21.72	2.81	0.15
	12/18/2014	19.18	20.28	1.10	-1.71
	3/18/2015	19.85	21.02	1.17	0.07
	6/8/2015	19.52	20.40	0.88	-0.29
	9/15/2015	20.20	20.57	0.37	-0.51
	12/16/2015	19.98	20.50	0.52	0.15
	6/6/2016	20.18	21.76	1.58	1.06
	9/25/2016	18.42	19.58	1.16	-0.42
	12/11/2016	19.72	20.38	0.66	-0.50
	1/21/2017	19.94	20.60	0.66	0.00
	2/19/2017	20.08	20.64	0.56	-0.10
	3/14/2017	20.15	20.60	0.45	-0.11
	4/20/2017	20.20	21.00	0.80	0.35
	6/6/2017	20.34	20.90	0.56	-0.24
	9/19/2017	--	19.48	--	-0.56
	12/6/2017	20.00	20.78	0.78	0.78
	1/24/2018	20.10	21.10	1.00	0.22
	2/21/2018	20.25	21.05	0.80	-0.20
	3/15/2018	20.24	21.03	0.79	-0.01
	6/6/2018	20.45	20.90	0.45	-0.34
	7/17/2018	20.54	21.92	1.38	0.93
	9/24/2018	19.74	21.05	1.31	-0.07
	10/10/2018	20.20	20.80	0.60	-0.71
	12/11/2018	19.80	20.70	0.90	0.30
	1/23/2019	20.05	21.25	1.20	0.30
	3/13/2019	20.25	21.50	1.25	0.05
	6/26/2019	20.52	21.80	1.28	0.03
	9/21/2019	20.70	21.60	0.90	-0.38
	12/3/2019	20.32	21.56	1.24	0.34
	3/12/2020	19.83	20.75	0.92	-0.32
	5/20/2020	20.47	21.47	1.00	0.08
	6/18/2020	20.64	21.74	1.10	0.10
	8/13/2020	20.92	21.90	0.98	-0.12
	9/15/2020	21.15	22.08	0.93	-0.05
	11/12/2020	21.25	21.90	0.65	-0.28
	12/2/2020	21.45	22.65	1.20	0.55
	3/24/2021	21.45	22.20	0.75	-0.45
	6/8/2021	21.70	22.40	0.70	-0.05
	8/5/2021	20.65	21.70	1.05	0.35
	9/21/2021	20.18	20.43	0.25	-0.80
	12/2/2021	20.98	21.44	0.46	0.21
	3/23/2022	21.24	21.74	0.50	0.04
	6/1/2022	21.68	21.98	0.30	-0.20
	9/28/2022	21.63	22.45	0.82	0.52
	12/7/2022	21.58	22.15	0.57	-0.25
	2/23/2023	21.62	22.84	1.22	0.65
	8/14/2023	22.06	23.59	1.53	0.31
	10/18/2023	20.97	21.32	0.35	-1.18

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
BH-66	7/26/2012	20.84	21.38	0.54	--
	12/20/2012	20.85	21.37	0.52	-0.02
	6/19/2013	20.92	21.53	0.61	0.09
	12/12/2013	19.68	22.44	2.76	2.15
	6/26/2014	19.56	22.58	3.02	0.26
	12/18/2014	19.70	21.85	2.15	-0.87
	3/18/2015	20.34	22.57	2.23	0.08
	6/8/2015	20.01	21.97	1.96	-0.27
	9/15/2015	20.82	21.32	0.50	-1.46
	12/16/2015	20.53	21.83	1.30	0.80
	6/6/2016	21.01	21.36	0.35	-0.95
	9/25/2016	19.05	19.30	0.25	-0.10
	10/28/2016	19.91	21.20	1.29	1.04
	12/11/2016	20.24	21.92	1.68	0.39
	1/21/2017	20.60	21.40	0.80	-0.88
	2/19/2017	20.75	20.99	0.24	-0.56
	3/14/2017	20.84	21.15	0.31	0.07
	4/20/2017	20.95	21.25	0.30	-0.01
	6/6/2017	20.84	21.32	0.48	0.18
	9/19/2017	20.10	20.32	0.22	-0.26
	12/6/2017	20.55	22.30	1.75	1.53
	1/24/2018	20.82	21.62	0.80	-0.95
	2/21/2018	20.95	21.35	0.40	-0.40
	3/15/2018	20.98	21.27	0.29	-0.11
	6/6/2018	21.13	21.73	0.60	0.31
	7/17/2018	21.34	21.68	0.34	-0.26
	9/24/2018	20.55	20.66	0.11	-0.23
	10/10/2018	20.79	20.86	0.07	-0.04
	12/11/2018	20.40	21.80	1.40	1.33
	1/23/2019	20.80	21.35	0.55	-0.85
	3/13/2019	21.00	21.35	0.35	-0.20
	6/26/2019	21.33	21.83	0.50	0.15
	9/21/2019	21.48	21.85	0.37	-0.13
	12/3/2019	21.10	21.55	0.45	0.08
	3/12/2020	20.60	21.22	0.62	0.17
	5/20/2020	21.21	21.68	0.47	-0.15
	6/18/2020	21.42	22.07	0.65	0.18
	8/13/2020	20.62	21.82	1.20	0.55
	9/15/2020	21.70	22.80	1.10	-0.10
	11/12/2020	21.92	22.81	0.89	-0.21
	12/2/2020	21.98	23.66	1.68	0.79
	3/24/2021	22.00	23.32	1.32	-0.36
	6/8/2021	21.98	22.98	1.00	-0.32
	8/5/2021	21.38	22.10	0.72	-0.28
	9/21/2021	--	21.02	--	-0.72
	12/2/2021	21.63	22.07	0.44	0.44
	3/23/2022	21.03	22.20	1.17	0.73
	6/1/2022	22.38	22.93	0.55	-0.62
	9/28/2022	21.83	22.19	0.36	-0.19
	12/7/2022	22.10	23.40	1.30	0.94
	2/23/2023	22.22	24.00	1.78	0.48
	8/14/2023	22.70	24.63	1.93	0.15
	10/18/2023	21.63	22.02	0.39	-1.54

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
BH-67	7/26/2012	20.11	20.85	0.74	--
	12/20/2012	20.07	21.04	0.97	0.23
	6/19/2013	20.18	21.37	1.19	0.22
	12/12/2013	19.21	20.08	0.87	-0.32
	6/26/2014	19.12	20.23	1.11	0.24
	12/18/2014	19.27	19.97	0.70	-0.41
	3/18/2015	19.90	20.43	0.53	-0.17
	6/8/2015	19.57	19.86	0.29	-0.24
	9/15/2015	20.17	20.30	0.13	-0.16
	12/16/2015	20.01	20.07	0.06	-0.07
	6/6/2016	20.39	20.40	0.01	-0.05
	9/25/2016	--	21.59	--	-0.01
	10/28/2016	--	21.57	--	0.00
	12/11/2016	19.78	20.08	0.30	0.30
	1/21/2017	19.95	20.23	0.28	-0.02
	2/19/2017	20.07	20.27	0.20	-0.08
	3/14/2017	20.12	20.30	0.18	-0.02
	4/20/2017	20.25	20.40	0.15	-0.03
	6/6/2017	20.28	20.30	0.02	-0.13
	9/19/2017	19.40	19.52	0.12	0.10
	12/6/2017	20.02	20.43	0.41	0.29
	1/24/2018	20.20	20.40	0.20	-0.21
	2/21/2018	--	20.54	--	-0.20
	3/15/2018	22.30	22.32	0.02	0.02
	6/6/2018	--	Dry	--	-0.02
	7/17/2018	--	Dry	--	0.00
	9/24/2018	--	Dry	--	0.00
	10/10/2018	--	Dry	--	0.00
	12/11/2018	19.85	19.90	0.05	0.05
	3/13/2019	--	Dry	--	-0.05
	6/26/2019	20.60	20.88	0.28	0.28
	9/21/2019	20.62	21.24	0.62	0.34
	12/3/2019	20.40	20.85	0.45	-0.17
	3/12/2020	19.83	20.04	0.21	-0.24
	5/20/2020	20.58	21.00	0.42	0.21
	6/18/2020	20.67	21.50	0.83	0.41
	8/13/2020	20.83	22.20	1.37	0.54
	9/15/2020	20.98	22.94	1.96	0.59
	11/12/2020	21.15	22.45	1.30	-0.66
	12/2/2020	21.20	22.95	1.75	0.45
	3/24/2021	21.34	22.50	1.16	-0.59
	6/8/2021	21.38	22.80	1.42	0.26
	8/5/2021	20.80	20.92	0.12	-1.30
	9/21/2021	20.22	20.24	0.02	-0.10
	12/2/2021	20.95	21.20	0.25	0.23
	3/23/2022	21.38	22.04	0.66	0.41
	6/1/2022	21.64	22.07	0.43	-0.23
	9/28/2022	21.60	22.40	0.80	0.37
	12/7/2022	21.48	22.20	0.72	-0.08
	2/23/2023	21.62	22.68	1.06	0.34
	8/14/2023	22.18	22.75	0.57	-0.49
	10/18/2023	20.56	21.02	0.46	-0.11

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
BH-80	7/26/2012	18.53	19.27	--	--
	12/20/2012	18.55	19.33	0.78	0.04
	6/19/2013	18.60	19.63	1.03	0.25
	12/12/2013	17.68	18.65	0.97	-0.06
	6/26/2014	17.59	18.60	1.01	0.04
	12/18/2014	17.45	18.62	1.17	0.16
	8/13/2015	18.29	19.02	0.73	-0.44
	6/8/2015	17.95	18.45	0.50	-0.23
	9/15/2015	18.53	19.00	0.47	-0.03
	12/16/2015	18.38	18.66	0.28	-0.19
	6/6/2016	18.81	18.82	0.01	-0.27
	9/25/2016	--	16.97	--	-0.01
	10/28/2016	17.95	17.96	0.01	0.01
	12/11/2016	--	18.18	--	-0.01
	1/21/2017	--	18.38	--	0.00
	2/19/2017	--	18.58	--	0.00
	3/14/2017	18.54	18.62	0.08	0.08
	4/20/2017	18.65	18.80	0.15	0.07
	6/6/2017	19.02	19.40	0.38	0.23
	9/19/2017	17.70	17.88	0.18	-0.20
	12/6/2017	18.40	18.70	0.30	0.12
	1/24/2018	18.45	18.88	0.43	0.13
	2/21/2018	18.65	18.95	0.30	-0.13
	3/15/2018	18.55	18.96	0.41	0.11
	6/6/2018	18.70	19.04	0.34	-0.07
	7/17/2018	18.85	19.33	0.48	0.14
	9/24/2018	18.30	18.55	0.25	-0.23
	10/10/2018	18.30	18.70	0.40	0.15
	12/11/2018	18.10	18.55	0.45	0.05
	3/13/2019	18.70	19.00	0.30	-0.15
	6/26/2019	18.90	19.00	0.10	-0.20
	9/21/2019	19.00	19.10	0.10	0.00
	12/3/2019	--	18.88	--	-0.10
	3/12/2020	--	18.25	--	0.00
	5/20/2020	--	18.88	--	0.00
	6/18/2020	--	19.05	--	0.00
	9/15/2020	--	19.50	--	0.00
	12/2/2020	--	18.97	--	0.00
	3/24/2021	--	19.80	--	0.00
	6/8/2021	--	20.00	--	0.00
	8/5/2021	--	20.01	--	0.00
	9/21/2021	--	18.62	--	0.00
	12/2/2021	--	19.02	--	0.00
	3/23/2022	--	19.80	--	0.00
	6/1/2022	--	20.12	--	0.00
	9/28/2022	--	18.86	--	0.00
	12/7/2022	--	19.02	--	0.00
	2/23/2023	19.91	20.00	0.09	0.90
	8/14/2023	20.41	20.61	0.20	-0.70
	10/18/2023	--	19.10	--	-0.20

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
BH-88	7/26/2012	24.56	24.93	0.37	--
	12/20/2012	24.56	24.90	0.34	-0.03
	6/19/2013	24.68	25.18	0.50	0.16
	12/12/2013	23.77	24.29	0.52	0.02
	6/26/2014	23.57	24.02	0.45	-0.07
	12/18/2014	23.58	23.98	0.40	-0.05
	3/18/2015	24.29	24.62	0.33	-0.07
	6/9/2015	24.04	24.29	0.25	-0.08
	9/15/2015	24.50	24.60	0.10	-0.15
	12/16/2015	--	24.38	--	-0.10
	6/6/2016	--	24.94	--	0.00
	9/25/2016	--	22.75	--	0.00
	10/28/2016	--	23.74	--	0.00
	12/11/2016	--	Dry	--	0.00
	1/21/2017	--	Dry	--	0.00
	2/19/2017	--	24.45	--	0.00
	3/14/2017	--	25.15	--	0.00
	4/20/2017	--	Dry	--	0.00
	6/6/2017	--	24.68	--	0.00
	9/19/2017	--	23.88	--	0.00
	12/6/2017	--	Dry	--	0.00
	1/24/2018	--	Dry	--	0.00
	2/21/2018	--	Dry	--	0.00
	3/15/2018	--	Dry	--	0.00
	6/6/2018	--	Dry	--	0.00
	7/17/2018	--	Dry	--	0.00
	9/24/2018	--	Dry	--	0.00
	10/10/2018	--	Dry	--	0.00
	12/11/2018	--	Dry	--	0.00
	3/13/2019	--	Dry	--	0.00
	6/26/2019	--	Dry	--	0.00
	9/21/2019	--	Dry	--	0.00
	12/3/2019	--	Dry	--	0.00
	3/12/2020	--	Dry	--	0.00
	5/20/2020	--	Dry	--	0.00
	6/18/2020	--	Dry	--	0.00
	9/15/2020	--	Dry	--	0.00
	12/2/2020	--	Dry	--	0.00
	3/24/2021	--	Dry	--	0.00
	6/8/2021	--	Dry	--	0.00
	8/5/2021	--	Dry	--	0.00
	9/21/2021	--	Dry	--	0.00
	12/2/2021	--	Dry	--	0.00
	3/23/2022	--	Dry	--	0.00
	6/1/2022	--	Dry	--	0.00
	9/28/2022	--	Dry	--	0.00
	12/7/2022	--	Dry	--	0.00
	2/23/2023	--	Dry	--	0.00
	8/14/2023	26.60	-- ⁽¹⁾	0.05	0.00
	10/18/2023	25.46	25.50	0.04	0.04

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
BH-91	7/26/2012	24.01	25.01	1.00	--
	12/20/2012	23.92	25.50	1.58	0.58
	6/19/2013	23.01	26.01	3.00	1.42
	12/12/2013	23.11	25.19	2.08	-0.92
	6/26/2014	22.94	24.81	1.87	-0.21
	12/18/2014	22.97	24.45	1.48	-0.39
	3/18/2015	23.68	25.08	1.40	-0.08
	6/9/2015	23.45	24.44	0.99	-0.41
	9/15/2015	24.00	24.40	0.40	-0.59
	12/16/2015	23.87	24.26	0.39	-0.01
	6/6/2016	24.22	24.69	0.47	0.08
	9/25/2016	--	22.47	--	-0.47
	10/28/2016	23.28	23.40	0.12	0.12
	12/11/2016	23.68	23.92	0.24	0.12
	1/21/2017	21.90	22.04	0.14	-0.10
	2/19/2017	23.99	24.20	0.21	0.07
	3/14/2017	24.04	24.18	0.14	-0.07
	4/20/2017	24.15	24.35	0.20	0.06
	6/6/2017	24.25	24.35	0.10	-0.10
	9/19/2017	23.30	23.40	0.10	0.00
	12/6/2017	23.98	24.40	0.42	0.32
	1/24/2018	24.10	24.35	0.25	-0.17
	2/21/2018	20.20	20.32	0.12	-0.13
	3/15/2018	--	22.95	--	-0.12
	6/6/2018	--	24.38	--	0.00
	7/17/2018	24.52	24.70	0.18	0.18
	9/24/2018	23.50	23.87	0.37	0.19
	10/10/2018	23.98	24.25	0.27	-0.10
	12/11/2018	23.85	23.98	0.13	-0.14
	3/13/2019	24.30	24.38	0.08	-0.05
	6/26/2019	24.55	24.60	0.05	-0.03
	9/21/2019	22.64	22.74	0.10	0.05
	12/3/2019	--	24.40	--	-0.10
	3/12/2020	--	23.91	--	0.00
	5/20/2020	--	24.45	--	0.00
	6/18/2020	--	24.68	--	0.00
	9/15/2020	--	25.03	--	0.00
	12/2/2020	--	24.35	--	0.00
	3/24/2021	--	25.32	--	0.00
	6/8/2021	--	23.48	--	0.00
	8/5/2021	--	Dry		0.00
	9/21/2021	--	24.22	--	0.00
	12/2/2021	--	Dry		0.00
	3/23/2022	--	Dry		0.00
	6/1/2022	--	Dry		0.00
	9/28/2022	--	Dry		0.00
	12/7/2022		Dry		0.00
	2/23/2023	--	Dry		0.00
	8/14/2023	--	Dry	--	0.00
	10/18/2023	--	24.75	--	0.00

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
BH-103	7/26/2012	20.48	20.72	0.24	--
	12/20/2012	20.50	20.98	0.48	0.24
	6/19/2013	20.38	22.35	1.97	1.49
	12/12/2013	19.03	20.08	1.05	-0.92
	6/26/2014	18.97	20.94	1.97	0.92
	12/18/2014	19.18	20.04	0.86	-1.11
	3/18/2015	19.82	20.44	0.62	-0.24
	6/8/2015	19.43	20.39	0.96	0.34
	9/15/2015	20.08	20.12	0.04	-0.92
	12/16/2015	19.85	20.33	0.48	0.44
	6/6/2016	20.29	20.44	0.15	-0.33
	9/25/2016	--	18.32	--	-0.15
	10/28/2016	19.23	19.55	0.32	0.32
	12/11/2016	--	NM	--	-0.32
	1/21/2017	19.80	20.08	0.28	0.28
	2/19/2017	19.95	20.18	0.23	-0.05
	3/14/2017	--	20.04	--	-0.23
	4/20/2017	20.15	20.35	0.20	0.20
	6/6/2017	20.14	20.21	0.07	-0.13
	9/19/2017	19.25	19.35	0.10	0.03
	12/6/2017	19.85	20.58	0.73	0.63
	1/24/2018	20.02	20.78	0.76	0.03
	2/21/2018	20.10	20.61	0.51	-0.25
	3/15/2018	20.35	20.50	0.15	-0.36
	6/6/2018	20.35	20.85	0.50	0.35
	7/17/2018	21.30	22.38	1.08	0.58
	9/24/2018	19.70	20.68	0.98	-0.10
	10/10/2018	19.92	20.22	0.30	-0.68
	12/11/2018	19.73	20.30	0.57	0.27
	1/23/2019	20.03	20.73	0.70	0.13
	3/13/2019	20.25	20.75	0.50	-0.20
	6/26/2019	20.40	21.32	0.92	0.42
	9/21/2019	20.46	22.04	1.58	0.66
	12/3/2019	20.30	20.75	0.45	-1.13
	3/12/2020	19.28	19.78	0.50	0.05
	5/20/2020	20.40	20.62	0.22	-0.28
	6/18/2020	20.50	21.32	0.82	0.60
	8/13/2020	20.61	21.60	0.99	0.17
	9/15/2020	20.72	22.68	1.96	0.97
	11/12/2020	20.87	22.51	1.64	-0.32
	12/2/2020	20.94	22.20	1.26	-0.38
	3/24/2021	21.25	21.80	0.55	-0.71
	6/8/2021	21.38	21.62	0.24	-0.31
	8/5/2021	20.48	21.08	0.60	0.36
	9/21/2021	20.18	20.22	0.04	-0.56
	12/2/2021	20.82	21.02	0.20	0.16
	3/23/2022	21.19	21.85	0.66	0.46
	6/1/2022	21.38	22.10	0.72	0.06
	9/28/2022	21.19	21.87	0.68	-0.04
	12/7/2022	21.20	21.63	0.43	-0.25
	2/23/2023	21.23	23.24	2.01	1.58
	8/14/2023	21.73	23.77	2.04	0.03
	10/18/2023	20.62	21.59	0.97	-1.07

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
BH-104	7/26/2012	20.23	21.64	1.41	--
	12/20/2012	20.12	22.45	2.33	0.92
	6/19/2013	20.21	22.61	2.40	0.07
	12/12/2013	19.46	20.08	0.62	-1.78
	6/26/2014	19.38	20.99	1.61	0.99
	12/18/2014	19.45	19.89	0.44	-1.17
	3/18/2015	20.21	20.38	0.17	-0.27
	6/8/2015	19.86	20.07	0.21	0.04
	9/15/2015	20.37	20.89	0.52	0.31
	12/16/2015	20.25	20.50	0.25	-0.27
	6/6/2016	20.23	22.29	2.06	1.81
	9/25/2016	17.70	17.81	0.11	-1.95
	10/28/2016	19.65	19.71	0.06	-0.05
	12/11/2016	19.98	20.03	0.05	-0.01
	1/21/2017	20.20	20.28	0.08	0.03
	2/19/2017	20.32	20.42	0.10	0.02
	3/14/2017	20.40	20.55	0.15	0.05
	4/20/2017	20.40	21.40	1.00	0.85
	6/6/2017	20.56	20.97	0.41	-0.59
	9/19/2017	19.68	19.73	0.05	-0.36
	12/6/2017	20.38	20.45	0.07	0.02
	1/24/2018	20.48	20.74	0.26	0.19
	2/21/2018	20.60	20.78	0.18	-0.08
	3/15/2018	20.48	21.04	0.56	0.38
	6/6/2018	20.58	21.08	0.50	-0.06
	7/17/2018	20.78	22.24	1.46	0.96
	9/24/2018	20.05	20.45	0.40	-1.06
	10/10/2018	20.30	20.70	0.40	0.00
	12/11/2018	20.12	20.50	0.38	-0.02
	3/13/2019	21.40	23.15	1.75	1.37
	6/26/2019	20.78	21.12	0.34	-1.41
	9/21/2019	21.05	21.18	0.13	-0.21
	12/3/2019	20.65	21.06	0.41	0.28
	3/12/2020	20.22	20.65	0.43	0.02
	5/20/2020	20.78	21.24	0.46	0.03
	6/18/2020	20.98	21.45	0.47	0.01
	8/13/2020	21.20	21.84	0.64	0.17
	9/15/2020	21.35	21.68	0.33	-0.31
	11/12/2020	21.53	21.68	0.15	-0.18
	12/2/2020	21.70	22.02	0.32	0.17
	3/24/2021	21.72	22.05	0.33	0.01
	6/8/2021	21.80	22.00	0.20	-0.13
	8/5/2021	20.95	21.43	0.48	0.28
	9/21/2021	--	20.58	--	-0.48
	12/2/2021	21.25	21.30	0.05	0.05
	3/23/2022	21.69	21.75	0.06	0.01
	6/1/2022	Trace	21.94	--	-0.06
	9/28/2022	21.86	21.87	0.01	0.01
	12/7/2022	21.75	22.11	0.36	0.35
	2/23/2023	21.88	22.37	0.49	0.13
	8/14/2023	22.33	23.04	0.71	0.32
	10/18/2023	--	21.50	--	-0.81

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
BH-107	7/26/2012	21.21	21.50	0.29	--
	12/20/2012	21.23	21.81	0.58	0.29
	6/19/2013	20.28	21.35	1.07	0.49
	12/12/2013	20.45	20.82	0.37	-0.70
	6/26/2014	20.28	21.23	0.95	0.58
	12/18/2014	20.21	20.31	0.10	-0.85
	3/18/2015	21.43	22.05	0.62	0.52
	6/8/2015	20.67	20.95	0.28	-0.34
	9/15/2015	21.10	22.25	1.15	0.87
	12/16/2015	20.89	22.18	1.29	0.14
	6/6/2016	21.28	22.34	1.06	-0.23
	9/25/2016	19.40	20.30	0.90	-0.16
	10/28/2016	20.40	20.44	0.04	-0.86
	12/11/2016	20.84	20.95	0.11	0.07
	1/21/2017	21.02	21.27	0.25	0.14
	2/19/2017	21.14	21.37	0.23	-0.02
	3/14/2017	21.15	21.62	0.47	0.24
	4/20/2017	21.22	21.98	0.76	0.29
	6/6/2017	21.30	21.70	0.40	-0.36
	9/19/2017	--	20.45	#VALUE!	-0.40
	12/6/2017	--	21.10	#VALUE!	0.00
	1/24/2018	21.25	21.78	0.53	0.53
	2/21/2018	21.30	21.77	0.47	-0.06
	3/15/2018	21.34	21.68	0.34	-0.13
	6/6/2018	21.51	21.55	0.04	-0.30
	7/17/2018	21.70	21.92	0.22	0.18
	9/24/2018	20.93	20.99	0.06	-0.16
	10/10/2018	21.15	21.17	0.02	-0.04
	12/11/2018	20.98	20.99	0.01	-0.01
	3/13/2019	21.40	21.95	0.55	0.54
	6/26/2019	--	21.70	--	-0.55
	9/21/2019	21.80	22.00	0.20	0.20
	12/3/2019	21.50	21.85	0.35	0.15
	3/12/2020	--	21.38	--	-0.35
	5/20/2020	22.20	22.28	0.08	0.08
	6/18/2020	22.38	22.60	0.22	0.14
	9/15/2020	22.58	23.47	0.89	0.67
	11/12/2020	22.22	22.65	0.43	-0.46
	12/2/2020	22.08	23.28	1.20	0.77
	3/24/2021	22.40	23.18	0.78	-0.42
	6/8/2021	22.40	23.58	1.18	0.40
	8/5/2021	21.60	22.40	0.80	-0.38
	9/21/2021	--	21.32	--	-0.80
	12/2/2021	21.97	22.05	0.08	0.08
	3/23/2022	22.42	22.62	0.20	0.12
	6/1/2022	22.89	23.10	0.21	0.01
	9/28/2022	22.49	23.08	0.59	0.38
	12/7/2022	23.10	23.52	0.42	-0.17
	2/23/2023	22.46	23.77	1.31	0.89
	8/14/2023	23.00	24.18	1.18	-0.13
	10/18/2023	22.20	22.72	0.52	-0.66

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
BH-111	7/26/2012	21.36	22.90	1.54	--
	12/20/2012	21.38	23.19	1.81	0.27
	6/19/2013	21.48	23.52	2.04	0.23
	12/12/2013	20.73	21.63	0.90	-1.14
	6/26/2014	20.65	21.42	0.77	-0.13
	12/18/2014	20.61	20.96	0.35	-0.42
	3/18/2015	21.21	22.30	1.09	0.74
	6/8/2015	20.94	21.71	0.77	-0.32
	9/15/2015	21.36	23.00	1.64	0.87
	12/16/2015	21.26	22.30	1.04	-0.60
	6/6/2016	21.48	23.53	2.05	1.01
	9/25/2016	19.78	20.02	0.24	-1.81
	10/28/2016	20.67	21.24	0.57	0.33
	12/11/2016	21.10	21.80	0.70	0.13
	1/21/2017	21.25	22.37	1.12	0.42
	2/19/2017	21.35	22.60	1.25	0.13
	3/14/2017	21.38	22.62	1.24	-0.01
	4/20/2017	21.47	22.93	1.46	0.22
	6/6/2017	21.48	23.00	1.52	0.06
	9/19/2017	20.78	21.05	0.27	-1.25
	12/6/2017	21.38	22.28	0.90	0.63
	1/24/2018	21.48	22.88	1.40	0.50
	2/21/2018	21.50	22.92	1.42	0.02
	3/15/2018	21.53	22.95	1.42	0.00
	6/6/2018	21.64	22.58	0.94	-0.48
	7/17/2018	21.80	23.48	1.68	0.74
	9/24/2018	21.18	22.02	0.84	-0.84
	10/10/2018	21.30	22.23	0.93	0.09
	12/11/2018	21.11	22.20	1.09	0.16
	1/23/2019	21.48	21.74	0.26	-0.83
	3/13/2019	21.60	22.90	1.30	1.04
	6/26/2019	21.90	23.08	1.18	-0.12
	9/21/2019	22.04	23.00	0.96	-0.22
	12/3/2019	21.72	23.07	1.35	0.39
	3/12/2020	21.30	21.82	0.52	-0.83
	5/20/2020	21.80	22.80	1.00	0.48
	6/18/2020	22.08	22.80	0.72	-0.28
	8/13/2020	22.32	23.21	0.89	0.17
	9/15/2020	22.38	23.47	1.09	0.20
	11/12/2020	22.58	23.37	0.79	-0.30
	12/2/2020	22.02	23.62	1.60	0.81
	3/24/2021	22.80	23.37	0.57	-1.03
	6/8/2021	22.84	23.90	1.06	0.49
	8/5/2021	22.03	22.44	0.41	-0.65
	9/21/2021	--	21.62	--	-0.41
	12/2/2021	22.30	22.48	0.18	0.18
	3/23/2022	22.75	22.95	0.20	0.02
	6/1/2022	23.00	23.15	0.15	-0.05
	9/28/2022	22.91	23.17	0.26	0.11
	12/7/2022	22.90	23.24	0.34	0.08
	2/23/2023	22.92	23.68	0.76	0.42
	8/14/2023	23.37	24.59	1.22	0.46
	10/18/2023	21.75	21.81	0.06	-1.16

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
BH-114	7/26/2012	20.85	21.29	0.44	--
	12/20/2012	20.66	22.55	1.89	1.45
	6/19/2013	20.73	23.05	2.32	0.43
	12/12/2013	20.10	20.50	0.40	-1.92
	6/26/2014	20.00	20.40	0.40	0.00
	12/18/2014	19.91	19.98	0.07	-0.33
	3/18/2015	21.00	21.01	0.01	-0.06
	6/8/2015	20.27	20.65	0.38	0.37
	9/15/2015	20.78	21.42	0.64	0.26
	12/16/2015	20.63	21.10	0.47	-0.17
	6/6/2016	20.84	22.39	1.55	1.08
	9/25/2016	18.93	19.18	0.25	-1.30
	10/28/2016	19.98	20.23	0.25	0.00
	12/11/2016	20.48	20.60	0.12	-0.13
	1/21/2017	20.65	20.85	0.20	0.08
	2/19/2017	20.80	21.08	0.28	0.08
	3/14/2017	21.84	22.08	0.24	-0.04
	4/20/2017	20.92	21.38	0.46	0.22
	6/6/2017	21.02	21.38	0.36	-0.10
	9/19/2017	17.03	17.24	0.21	-0.15
	12/6/2017	--	20.78	--	-0.21
	1/24/2018	20.90	21.40	0.50	0.50
	2/21/2018	20.95	21.55	0.60	0.10
	3/15/2018	21.49	21.68	0.19	-0.41
	6/6/2018	21.28	21.48	0.20	0.01
	7/17/2018	21.20	22.28	1.08	0.88
	9/24/2018	20.54	21.03	0.49	-0.59
	10/10/2018	20.77	21.03	0.26	-0.23
	12/11/2018	20.60	20.74	0.14	-0.12
	3/13/2019	21.05	21.75	0.70	0.56
	6/26/2019	21.30	21.98	0.68	-0.02
	9/21/2019	21.41	21.92	0.51	-0.17
	12/3/2019	21.15	21.30	0.15	-0.36
	3/12/2020	20.80	21.09	0.29	0.14
	5/20/2020	20.98	21.25	0.27	-0.02
	6/18/2020	21.38	21.72	0.34	0.07
	8/13/2020	21.63	21.84	0.21	-0.13
	9/15/2020	21.75	22.14	0.39	0.18
	11/12/2020	21.90	22.09	0.19	-0.20
	12/2/2020	21.90	22.02	0.12	-0.07
	3/24/2021	22.10	22.17	0.07	-0.05
	6/8/2021	22.18	22.44	0.26	0.19
	8/5/2021	--	21.38	--	-0.26
	9/21/2021	--	20.78	--	0.00
	12/2/2021	--	21.65	--	0.00
	3/23/2022	--	22.05	--	0.00
	6/1/2022	Trace	22.38	--	0.00
	9/28/2022	22.18	22.22	0.04	0.04
	12/7/2022	--	22.20	--	-0.04
	2/23/2023	--	22.25	--	0.00
	8/14/2023	22.77	22.81	0.04	0.04
	10/18/2023	--	21.39	--	-0.04

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
MRW-2	6/19/2013	19.42	19.62	0.20	--
	12/12/2013	17.64	18.50	0.86	0.66
	6/26/2014	17.63	17.76	0.13	-0.73
	12/18/2014	17.60	17.80	0.20	0.07
	3/18/2015	18.25	18.60	0.35	0.15
	6/8/2015	17.94	18.42	0.48	0.13
	9/15/2015	18.40	18.99	0.59	0.11
	12/16/2015	18.25	18.87	0.62	0.03
	6/6/2016	18.65	19.44	0.79	0.17
	9/25/2016	16.70	16.95	0.25	-0.54
	10/28/2016	17.61	17.80	0.19	-0.06
	12/11/2016	18.10	18.19	0.09	-0.10
	1/21/2017	18.30	18.38	0.08	-0.01
	2/19/2017	18.40	18.50	0.10	0.02
	3/14/2017	18.48	18.52	0.04	-0.06
	4/20/2017	18.55	18.68	0.13	0.09
	6/6/2017	18.57	18.67	0.10	-0.03
	9/19/2017	--	17.70	--	-0.10
	12/6/2017	--	18.40	--	0.00
	1/24/2018	18.58	18.70	0.12	0.12
	2/21/2018	--	18.75	--	-0.12
	3/15/2018	--	18.60	--	0.00
	6/6/2018	--	20.46	--	0.00
	7/17/2018	19.01	19.02	0.01	0.01
	9/24/2018	18.20	18.28	0.08	0.07
	10/10/2018	18.41	18.42	0.01	-0.07
	12/11/2018	18.20	18.28	0.08	0.07
	3/13/2019	--	18.70	--	-0.08
	6/26/2019	18.95	19.00	0.05	0.05
	9/21/2019	--	19.08	--	-0.05
	12/3/2019	--	18.75	--	0.00
	3/12/2020	--	18.72	--	0.00
	5/20/2020	--	18.80	--	0.00
	6/18/2020	18.04	18.84	0.80	0.80
	9/15/2020	19.20	19.28	0.08	-0.72
	11/12/2020	--	19.65	--	-0.08
	12/2/2020	--	18.75	--	0.00
	3/24/2021	--	19.04	--	0.00
	6/8/2021	--	19.80	--	0.00
	8/5/2021	--	19.69	--	0.00
	9/21/2021	--	18.28	--	0.00
	12/2/2021	--	19.22	--	0.00
	3/23/2022	--	19.65	--	0.00
	6/1/2022	--	19.92	--	0.00
	9/28/2022	--	19.84	--	0.00
	12/7/2022	--	19.97	--	0.00
	2/23/2023	19.92	20.17	0.25	0.25
	8/14/2023	20.43	20.55	0.12	-0.13
	10/18/2023	19.15	19.36	0.21	0.09

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
MRW-3	6/19/2013	19.10	20.02	0.92	--
	12/12/2013	17.44	18.26	0.82	-0.10
	6/26/2014	17.92	17.99	0.07	-0.75
	12/18/2014	17.39	17.45	0.06	-0.01
	3/18/2015	18.03	18.30	0.27	0.21
	6/8/2015	17.64	18.06	0.42	0.15
	9/15/2015	18.15	19.06	0.91	0.49
	12/16/2015	18.01	18.80	0.79	-0.12
	6/6/2016	18.33	19.43	1.10	0.31
	9/25/2016	16.42	17.00	0.58	-0.52
	10/28/2016	17.54	17.74	0.20	-0.38
	12/11/2016	17.90	18.02	0.12	-0.08
	1/21/2017	18.08	18.15	0.07	-0.05
	2/19/2017	18.22	18.32	0.10	0.03
	3/14/2017	18.24	18.38	0.14	0.04
	4/20/2017	18.35	18.50	0.15	0.01
	6/6/2017	18.39	18.50	0.11	-0.04
	9/19/2017	--	17.48	--	-0.11
	12/6/2017	--	18.18	--	0.00
	1/24/2018	18.32	18.50	0.18	0.18
	2/21/2018	--	18.72	--	-0.18
	3/15/2018	18.38	18.61	0.23	0.23
	6/6/2018	--	20.42	--	-0.23
	7/17/2018	17.63	17.64	0.01	0.01
	9/24/2018	17.87	18.18	0.31	0.30
	10/10/2018	18.18	18.23	0.05	-0.26
	12/11/2018	17.60	17.70	0.10	0.05
	3/13/2019	18.45	18.90	0.45	0.35
	6/26/2019	18.70	18.95	0.25	-0.20
	9/21/2019	18.85	18.98	0.13	-0.12
	12/3/2019	18.50	18.62	0.12	-0.01
	3/12/2020	--	18.02	--	-0.12
	5/20/2020	--	18.63	--	0.00
	6/18/2020	18.80	18.92	0.12	0.12
	9/15/2020	--	19.20	--	-0.12
	12/2/2020	--	18.54	--	0.00
	3/24/2021	--	19.64	--	0.00
	6/8/2021	--	19.70	--	0.00
	8/5/2021	--	19.45	--	0.00
	9/21/2021	--	18.33	--	0.00
	12/2/2021	--	19.54	--	0.00
	3/23/2022	--	19.92	--	0.00
	6/1/2022	--	20.19	--	0.00
	9/28/2022	19.63	19.65	0.02	0.02
	12/7/2022	--	20.02	--	-0.02
	2/23/2023	19.71	19.90	0.19	0.19
	8/14/2023	20.22	20.29	0.07	-0.12
	10/18/2023	18.95	19.10	0.15	0.08

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
MRW-4	6/19/2013	18.68	20.63	1.95	--
	12/12/2013	16.94	18.35	1.41	-0.54
	6/26/2014	16.69	18.22	1.53	0.12
	12/18/2014	16.92	17.72	0.80	-0.73
	3/18/2015	17.52	18.57	1.05	0.25
	6/8/2015	17.17	18.11	0.94	-0.11
	9/15/2015	17.85	18.20	0.35	-0.59
	12/16/2015	17.70	17.98	0.28	-0.07
	6/6/2016	17.91	19.05	1.14	0.86
	9/25/2016	16.04	16.64	0.60	-0.54
	10/28/2016	17.09	17.32	0.23	-0.37
	12/11/2016	17.45	17.65	0.20	-0.03
	1/21/2017	17.70	17.80	0.10	-0.10
	2/19/2017	17.72	17.86	0.14	0.04
	3/14/2017	17.20	17.55	0.35	0.21
	4/20/2017	17.95	18.10	0.15	-0.20
	6/6/2017	17.99	18.03	0.04	-0.11
	9/19/2017	--	17.10	--	-0.04
	12/6/2017	17.78	17.98	0.20	0.20
	1/24/2018	17.92	18.15	0.23	0.03
	2/21/2018	18.00	18.12	0.12	-0.11
	3/15/2018	18.00	18.09	0.09	-0.03
	6/6/2018	--	18.14	--	-0.09
	7/17/2018	18.07	19.20	1.13	1.13
	9/24/2018	17.58	17.93	0.35	-0.78
	10/10/2018	17.80	17.88	0.08	-0.27
	12/11/2018	17.60	17.70	0.10	0.02
	3/13/2019	18.10	18.30	0.20	0.10
	6/26/2019	18.35	18.40	0.05	-0.15
	9/21/2019	18.40	18.90	0.50	0.45
	12/3/2019	18.15	18.38	0.23	-0.27
	3/12/2020	17.60	17.82	0.22	-0.01
	5/20/2020	18.15	18.18	0.03	-0.19
	6/18/2020	18.41	18.62	0.21	0.18
	9/15/2020	18.78	19.18	0.40	0.19
	11/12/2020	19.05	19.25	0.20	-0.20
	12/2/2020	19.05	20.01	0.96	0.76
	3/24/2021	19.00	20.05	1.05	0.09
	6/8/2021	19.12	19.82	0.70	-0.35
	8/5/2021	18.40	18.62	0.22	-0.48
	9/21/2021	17.97	17.98	0.01	-0.21
	12/2/2021	20.15	20.42	0.27	0.26
	3/23/2022	--	19.18	--	-0.27
	6/1/2022	19.34	19.48	0.14	0.14
	9/28/2022	19.29	19.33	0.04	-0.10
	12/7/2022	--	19.20	--	-0.04
	2/23/2023	19.30	19.70	0.40	0.40
	8/14/2023	19.83	20.26	0.43	0.03
	10/18/2023	--	18.57	--	-0.43

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
MRW-5	6/19/2013	17.80	20.80	3.00	--
	12/12/2013	16.29	18.98	2.69	-0.31
	6/26/2014	16.59	16.73	0.14	-2.55
	12/18/2014	16.60	16.68	0.08	-0.06
	3/18/2015	17.20	17.50	0.30	0.22
	6/8/2015	16.80	17.40	0.60	0.30
	9/15/2015	17.37	18.15	0.78	0.18
	12/16/2015	17.17	18.13	0.96	0.18
	6/6/2016	17.46	19.08	1.62	0.66
	9/25/2016	13.15	17.50	4.35	2.73
	10/28/2016	16.63	17.16	0.53	-3.82
	12/11/2016	17.03	17.35	0.32	-0.21
	1/21/2017	17.28	17.50	0.22	-0.10
	2/19/2017	17.72	17.86	0.14	-0.08
	3/14/2017	17.87	17.92	0.05	-0.09
	4/20/2017	17.50	17.75	0.25	0.20
	6/6/2017	17.54	17.71	0.17	-0.08
	9/19/2017	16.70	16.80	0.10	-0.07
	12/6/2017	17.35	17.55	0.20	0.10
	1/24/2018	17.47	17.88	0.41	0.21
	2/21/2018	17.55	17.88	0.33	-0.08
	3/15/2018	17.58	17.88	0.30	-0.03
	6/6/2018	17.72	17.84	0.12	-0.18
	7/17/2018	17.80	18.80	1.00	0.88
	9/24/2018	17.02	18.02	1.00	0.00
	10/10/2018	17.31	17.70	0.39	-0.61
	12/11/2018	17.15	17.40	0.25	-0.14
	3/13/2019	17.40	18.35	0.95	0.70
	6/26/2019	17.85	18.60	0.75	-0.20
	9/21/2019	18.08	18.60	0.52	-0.23
	12/3/2019	17.70	18.20	0.50	-0.02
	3/12/2020	17.02	18.62	1.60	1.10
	5/20/2020	17.60	18.04	0.44	-1.16
	6/18/2020	17.95	18.47	0.52	0.08
	8/13/2020	18.18	19.23	1.05	0.53
	9/15/2020	18.28	19.10	0.82	-0.23
	11/12/2020	18.42	19.12	0.70	-0.12
	12/2/2020	18.45	20.44	1.99	1.29
	3/24/2021	18.66	19.29	0.63	-1.36
	6/8/2021	19.80	20.03	0.23	-0.40
	8/5/2021	17.90	18.92	1.02	0.79
	9/21/2021	17.46	17.48	0.02	-1.00
	12/2/2021	19.96	20.02	0.06	0.04
	3/23/2022	18.68	18.92	0.24	0.18
	6/1/2022	18.97	19.05	0.08	-0.16
	9/28/2022	18.81	19.27	0.46	0.38
	12/7/2022	18.74	19.15	0.41	-0.05
	2/23/2023	18.76	20.18	1.42	1.01
	8/14/2023	19.28	20.62	1.34	-0.08
	10/18/2023	18.13	18.40	0.27	-1.07

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
MRW-6	6/19/2013	20.08	20.30	0.22	--
	12/12/2013	16.59	16.82	0.23	0.01
	6/26/2014	16.49	16.58	0.09	-0.14
	12/18/2014	16.51	16.61	0.10	0.01
	3/18/2015	17.14	17.20	0.06	-0.04
	6/8/2015	16.77	16.90	0.13	0.07
	9/15/2015	--	17.35	--	-0.13
	12/16/2015	--	17.20	--	0.00
	6/6/2016	17.54	17.55	0.01	0.01
	9/25/2016	--	15.64	--	-0.01
	10/28/2016	--	16.62	--	0.00
	12/11/2016	--	16.95	--	0.00
	1/21/2017	--	17.18	--	0.00
	2/19/2017	17.30	17.32	0.02	0.02
	3/14/2017	--	17.33	--	-0.02
	4/20/2017	18.44	18.45	0.01	0.01
	6/6/2017	18.17	18.18	0.01	0.00
	9/19/2017	--	16.60	--	-0.01
	12/6/2017	17.18	17.20	0.02	0.02
	1/24/2018	16.90	17.02	0.12	0.10
	2/21/2018	--	18.67	--	-0.12
	3/15/2018	--	17.52	--	0.00
	6/6/2018	--	17.68	--	0.00
	7/17/2018	17.80	18.09	0.29	0.29
	9/24/2018	--	17.05	--	-0.29
	10/10/2018	17.75	17.76	0.01	0.01
	12/11/2018	17.09	17.10	0.01	0.00
	3/13/2019	--	17.60	--	-0.01
	6/26/2019	--	17.85	--	0.00
	9/21/2019	--	17.97	--	0.00
	12/3/2019	--	17.65	--	0.00
	3/12/2020	--	17.08	--	0.00
	5/20/2020	--	17.49	--	0.00
	6/18/2020	--	17.91	--	0.00
	9/15/2020	--	18.30	--	0.00
	12/2/2020	--	17.76	--	0.00
	3/24/2021	--	18.68	--	0.00
	6/8/2021	--	18.78	--	0.00
	8/5/2021	--	18.45	--	0.00
	9/21/2021	--	17.88	--	0.00
	12/2/2021	--	19.10	--	0.00
	3/23/2022	--	19.54	--	0.00
	6/1/2022	--	19.88	--	0.00
	9/28/2022	--	19.56	--	0.00
	12/7/2022	--	19.88	--	0.00
	2/23/2023	18.82	19.10	0.28	0.28
	8/14/2023	19.33	19.82	0.49	0.21
	10/18/2023	18.08	18.25	0.17	-0.32

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
MRW-7	6/19/2013	19.40	19.41	0.01	--
	12/12/2013	16.10	16.12	0.02	0.01
	6/26/2014	15.92	16.35	0.43	0.41
	12/18/2014	16.04	16.14	0.10	-0.33
	3/18/2015	16.60	17.09	0.49	0.39
	6/8/2015	16.23	16.62	0.39	-0.10
	9/15/2015	16.78	17.08	0.30	-0.09
	12/16/2015	16.60	17.21	0.61	0.31
	6/6/2016	16.95	17.45	0.50	-0.11
	9/25/2016	15.29	15.61	0.32	-0.18
	10/28/2016	16.13	16.26	0.13	-0.19
	12/11/2016	16.45	16.62	0.17	0.04
	1/21/2017	16.64	16.70	0.06	-0.11
	2/19/2017	16.80	16.87	0.07	0.01
	3/14/2017	16.81	16.84	0.03	-0.04
	4/20/2017	16.95	17.00	0.05	0.02
	6/6/2017	16.98	17.00	0.02	-0.03
	9/19/2017	16.10	16.14	0.04	0.02
	12/6/2017	16.75	16.82	0.07	0.03
	1/24/2018	16.90	17.02	0.12	0.05
	2/21/2018	--	15.25	--	-0.12
	3/15/2018	--	17.25	--	0.00
	6/6/2018	--	17.15	--	0.00
	7/17/2018	--	17.20	--	0.00
	9/24/2018	--	16.52	--	0.00
	10/10/2018	16.69	16.70	0.01	0.01
	12/11/2018	16.70	16.90	0.20	0.19
	3/13/2019	--	17.05	--	-0.20
	6/26/2019	--	16.34	--	0.00
	9/21/2019	--	16.65	--	0.00
	12/3/2019	--	17.08	--	0.00
	3/12/2020	--	16.57	--	0.00
	5/20/2020	--	17.11	--	0.00
	6/18/2020	--	17.43	--	0.00
	9/15/2020	17.88	18.15	0.27	0.27
	12/2/2020	--	17.18	--	-0.27
	3/24/2021	--	18.18	--	0.00
	6/8/2021	--	18.28	--	0.00
	8/5/2021	--	18.11	--	0.00
	9/21/2021	--	17.67	--	0.00
	12/2/2021	--	18.34	--	0.00
	3/23/2022	--	18.63	--	0.00
	6/1/2022	--	18.90	--	0.00
	9/28/2022	--	18.43	--	0.00
	12/7/2022	--	18.78	--	0.00
	2/23/2023	18.40	18.45	0.05	0.05
	8/14/2023	18.91	18.98	0.07	0.02
	10/18/2023	--	19.64	--	-0.07

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
MRW-14	6/19/2013	25.25	25.35	0.10	--
	12/12/2013	21.90	22.12	0.22	0.12
	6/26/2014	21.69	21.89	0.20	-0.02
	12/18/2014	21.73	21.81	0.08	-0.12
	3/18/2015	22.39	22.56	0.17	0.09
	6/8/2015	22.10	22.29	0.19	0.02
	9/15/2015	22.55	22.80	0.25	0.06
	12/16/2015	--	22.44	--	-0.25
	6/6/2016	22.81	22.93	0.12	0.12
	9/25/2016	--	19.88	--	-0.12
	10/28/2016	--	21.29	--	0.00
	12/11/2016	--	22.24	--	0.00
	1/21/2017	--	23.45	--	0.00
	2/19/2017	--	22.62	--	0.00
	3/14/2017	--	22.60	--	0.00
	4/20/2017	--	22.70	--	0.00
	6/6/2017	--	22.70	--	0.00
	9/19/2017	--	22.08	--	0.00
	12/6/2017	--	22.62	--	0.00
	1/24/2018	--	22.80	--	0.00
	2/21/2018	--	23.03	--	0.00
	3/15/2018	--	22.79	--	0.00
	6/6/2018	23.90	23.93	0.03	0.03
	7/17/2018	23.06	23.07	0.01	-0.02
	9/24/2018	Trace	22.32	Trace	-0.01
	10/10/2018	--	22.70	--	0.00
	12/11/2018	--	22.38	--	0.00
	3/13/2019	--	22.66	--	0.00
	6/26/2019	--	22.34	--	0.00
	9/21/2019	--	23.30	--	0.00
	12/3/2019	--	22.90	--	0.00
	3/12/2020	--	22.19	--	0.00
	5/20/2020	--	22.58	--	0.00
	6/18/2020	--	23.16	--	0.00
	9/15/2020	--	23.58	--	0.00
	12/2/2020	--	22.85	--	0.00
	3/24/2021	--	23.95	--	0.00
	6/8/2021	--	24.08	--	0.00
	8/5/2021	--	23.18	--	0.00
	9/21/2021	--	22.88	--	0.00
	12/2/2021	--	23.87	--	0.00
	3/23/2022	--	24.12	--	0.00
	6/1/2022	--	24.39	--	0.00
	9/28/2022	--	24.21	--	0.00
	12/7/2022	--	24.56	--	0.00
	2/23/2023	24.24	24.30	0.06	0.06
	8/14/2023	24.64	24.74	0.10	0.04
	10/18/2023	--	24.19	--	-0.10

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
MW-1	7/26/2012	--	22.02	--	--
	12/20/2012	--	22.27	--	0.00
	6/23/2013	--	22.32	--	0.00
	12/12/2013	--	21.30	--	0.00
	6/26/2014	--	21.10	--	0.00
	12/18/2014	--	21.50	--	0.00
	3/18/2015	--	22.08	--	0.00
	6/9/2015	--	21.67	--	0.00
	12/16/2015	--	22.01	--	0.00
	6/6/2016	--	22.46	--	0.00
	12/13/2016	--	21.82	--	0.00
	6/7/2017	--	22.40	--	0.00
	12/6/2017	--	22.20	--	0.00
	3/15/2018	--	20.35	--	0.00
	6/6/2018	--	22.48	--	0.00
	9/24/2018	--	21.92	--	0.00
	12/11/2018	--	21.95	--	0.00
	3/13/2019	--	22.53	--	0.00
	6/26/2019	--	22.68	--	0.00
	9/21/2019	--	22.84	--	0.00
	12/3/2019	--	22.55	--	0.00
	3/14/2020	--	21.80	--	0.00
	6/18/2020	--	22.87	--	0.00
	9/15/2020	--	23.24	--	0.00
	12/2/2020	--	23.41	--	0.00
	3/24/2021	--	23.58	--	0.00
	6/8/2021	--	23.82	--	0.00
	9/21/2021	--	22.12	--	0.00
	12/2/2021	--	23.04	--	0.00
	3/23/2022	--	23.64	--	0.00
	6/1/2022	--	23.80	--	0.00
	9/28/2022	--	23.83	--	0.00
	12/7/2022	--	23.80	--	0.00
	2/23/2023	--	23.95	--	0.00
	8/14/2023	--	24.49	--	0.00
	10/19/2023	--	23.22	--	0.00

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
MW-3	7/26/2012	--	21.72	--	--
	12/20/2012	--	21.75	--	0.00
	6/23/2013	--	21.10	--	0.00
	12/12/2013	--	21.10	--	0.00
	6/26/2014	--	20.97	--	0.00
	12/18/2014	--	20.55	--	0.00
	3/18/2015	--	21.42	--	0.00
	6/9/2015	--	21.14	--	0.00
	12/16/2015	--	21.48	--	0.00
	6/6/2016	--	21.86	--	0.00
	12/13/2016	--	21.27	--	0.00
	6/7/2017	--	21.83	--	0.00
	12/6/2017	--	21.58	--	0.00
	3/15/2018	--	21.17	--	0.00
	6/6/2018	--	21.98	--	0.00
	9/24/2018	--	21.43	--	0.00
	12/11/2018	--	21.54	--	0.00
	3/13/2019	--	21.90	--	0.00
	6/26/2019	--	22.11	--	0.00
	9/21/2019	--	22.25	--	0.00
	12/3/2019	--	24.95	--	0.00
	3/14/2020	--	21.33	--	0.00
	6/18/2020	--	22.14	--	0.00
	9/15/2020	--	22.82	--	0.00
	12/2/2020	--	22.85	--	0.00
	3/24/2021	--	22.77	--	0.00
	6/8/2021	--	22.97	--	0.00
	9/21/2021	--	21.65	--	0.00
	12/2/2021	--	22.33	--	0.00
	3/23/2022	--	22.80	--	0.00
	6/1/2022	--	23.00	--	0.00
	9/28/2022	--	22.89	--	0.00
	12/7/2022	--	22.81	--	0.00
	2/23/2023	--	22.95	--	0.00
	8/14/2023	--	23.48	--	0.00
	10/19/2023	--	21.10	--	0.00

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
MW-5	7/26/2012	--	24.00	--	--
	12/20/2012	--	23.99	--	0.00
	6/23/2013	--	21.36	--	0.00
	12/12/2013	--	23.33	--	0.00
	6/26/2014	--	23.13	--	0.00
	12/18/2014	--	23.05	--	0.00
	3/18/2015	--	23.69	--	0.00
	6/9/2015	--	23.44	--	0.00
	12/16/2015	--	23.68	--	0.00
	6/6/2016	--	24.11	--	0.00
	12/13/2016	--	23.50	--	0.00
	6/7/2017	--	24.07	--	0.00
	12/6/2017	--	23.87	--	0.00
	3/15/2018	--	23.95	--	0.00
	6/6/2018	--	24.19	--	0.00
	9/24/2018	--	23.69	--	0.00
	12/11/2018	--	23.67	--	0.00
	3/13/2019	--	24.10	--	0.00
	6/26/2019	--	24.32	--	0.00
	9/21/2019	--	24.49	--	0.00
	12/3/2019	--	24.14	--	0.00
	3/14/2020	--	23.73	--	0.00
	6/18/2020	--	24.40	--	0.00
	9/15/2020	--	24.51	--	0.00
	12/2/2020	--	24.66	--	0.00
	3/24/2021	--	25.08	--	0.00
	6/8/2021	--	25.30	--	0.00
	9/21/2021	--	23.93	--	0.00
	12/2/2021	--	24.63	--	0.00
	3/23/2022	--	25.12	--	0.00
	6/1/2022	--	25.33	--	0.00
	9/28/2022	--	25.34	--	0.00
	12/7/2022	--	25.30	--	0.00
	2/23/2023	--	25.41	--	0.00
	8/14/2023	--	25.92	--	0.00
	10/19/2023	--	24.84	--	0.00

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
MW-6	7/26/2012	--	16.42	--	--
	12/20/2012	--	17.50	--	0.00
	6/23/2013	--	19.78	--	0.00
	12/12/2013	--	16.80	--	0.00
	6/26/2014	--	16.63	--	0.00
	12/18/2014	--	16.10	--	0.00
	3/18/2015	--	17.11	--	0.00
	6/8/2015	--	16.76	--	0.00
	12/16/2015	--	17.18	--	0.00
	6/6/2016	--	17.58	--	0.00
	1/21/2017	--	16.92	--	0.00
	6/7/2017	--	17.54	--	0.00
	12/6/2017	--	17.21	--	0.00
	3/15/2018	--	17.50	--	0.00
	6/6/2018	--	17.72	--	0.00
	9/24/2018	--	17.12	--	0.00
	12/11/2018	--	17.12	--	0.00
	3/13/2019	--	17.63	--	0.00
	6/26/2019	--	17.81	--	0.00
	9/21/2019	--	18.01	--	0.00
	12/3/2019	--	17.68	--	0.00
	3/14/2020	--	17.16	--	0.00
	6/18/2020	--	17.88	--	0.00
	9/15/2020	--	18.24	--	0.00
	12/2/2020	--	18.39	--	0.00
	3/24/2021	--	18.51	--	0.00
	6/8/2021	--	18.79	--	0.00
	9/21/2021	--	17.38	--	0.00
	12/2/2021	--	18.03	--	0.00
	3/23/2022	--	18.48	--	0.00
	6/1/2022	--	18.74	--	0.00
	9/28/2022	--	18.51	--	0.00
	12/7/2022	--	18.40	--	0.00
	2/23/2023	--	18.51	--	0.00
	8/14/2023	--	19.21	--	0.00
	10/19/2023	--	17.43	--	0.00

TABLE 1
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Fluid Level Measurements

Monitoring Well ID	Date Measured	Depth to Product Below TOC (ft-btoc)	Depth to Water Below TOC (ft-btoc)	Product Thickness (feet)	LNAPL Thickness Change Since Previous GW Mon Event (feet)
MW-7	7/26/2012	--	18.84	--	--
	12/20/2012	--	18.93	--	0.00
	6/23/2013	--	19.08	--	0.00
	12/12/2013	--	18.16	--	0.00
	6/26/2014	--	17.93	--	0.00
	12/18/2014	--	17.70	--	0.00
	3/18/2015	--	18.59	--	0.00
	6/9/2015	--	18.25	--	0.00
	12/16/2015	--	18.62	--	0.00
	6/6/2016	--	18.59	--	0.00
	12/13/2016	--	18.35	--	0.00
	6/7/2017	--	18.95	--	0.00
	12/6/2017	--	18.67	--	0.00
	3/15/2018	--	18.92	--	0.00
	6/6/2018	--	19.16	--	0.00
	9/24/2018	--	18.67	--	0.00
	12/11/2018	--	18.55	--	0.00
	3/13/2019	--	19.03	--	0.00
	6/26/2019	--	19.24	--	0.00
	9/21/2019	--	19.39	--	0.00
	12/3/2019	--	19.04	--	0.00
	3/14/2020	--	18.58	--	0.00
	6/18/2020	--	19.24	--	0.00
	9/15/2020	--	19.65	--	0.00
	12/2/2020	--	19.80	--	0.00
	3/24/2021	--	19.89	--	0.00
	6/8/2021	--	20.12	--	0.00
	9/21/2021	--	18.78	--	0.00
	12/2/2021	--	19.42	--	0.00
	3/23/2022	--	19.85	--	0.00
	6/1/2022	--	20.10	--	0.00
	9/28/2022	--	19.92	--	0.00
	12/7/2022	--	19.82	--	0.00
	2/23/2023	--	19.95	--	0.00
	8/14/2023	--	20.60	--	0.00
	10/19/2023	--	18.98	--	0.00

Notes:

2023 Q2 fluid level measurements were not collected due to oilfield atmospheric safety conditions.

(1) Only LNAPL present in well

-- = not applicable

ft btoc = feet below top of casing

GW Mon = Groundwater Monitoring

HFS = HF Sinclair

LNAPL = Light non-aqueous phase liquid

TOC = Top of casing

TABLE 2
HF Sinclair North Monument 6-Inch Gathering Line, AP# 34
Monument, Lea County, New Mexico
Summary of Groundwater Analytical Data - 2023

Analyte		Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Total Xylenes (mg/L)	TPH DRO (mg/L)	TPH GRO (mg/L)
NMWQCC Groundwater Standards (mg/L)		0.00500	1.00	0.700	0.620	NA	NA
Monitoring Well	Date						
2023 Q1							
MW-1	2/23/2023	<0.00300	<0.00300	<0.00600	<0.00300	<0.164 C	<0.0600
MW-3	2/23/2023	<0.00300	<0.00300	<0.00600	<0.00300	<0.177 C	<0.0600
MW-5	2/23/2023	<0.00300	<0.00300	<0.00600	<0.00300	<0.154 C	<0.0600
MW-5 (Duplicate)	2/23/2023	<0.00300	<0.00300	<0.00600	<0.00300	<0.157 C	<0.0600
MW-6	2/23/2023	<0.00300	<0.00300	<0.00600	<0.00300	<0.155 C	0.531
MW-7	2/23/2023	<0.00300	<0.00300	<0.00600	<0.00300	<0.156 C	<0.0600
2023 Q3							
MW-1	8/15/2023	<0.00300	<0.00300	<0.00600	<0.00300	<0.154	<0.0600
MW-3	8/15/2023	<0.00300	<0.00300	<0.00600	<0.00300	<0.148	<0.0600
MW-5	8/15/2023	<0.00300	<0.00300	<0.00600	<0.00300	<0.147	<0.0600
MW-6	8/15/2023	<0.00300	<0.00300	<0.00600	<0.00300	<0.150	0.203
MW-6 (Duplicate)	8/15/2023	<0.00300	<0.00300	<0.00600	<0.00300	<0.164	0.235
MW-7	8/15/2023	<0.00300	<0.00300	<0.00600	<0.00300	<0.149	<0.0600
2023 Q4							
MW-1	10/19/2023	<0.00300	<0.00300	<0.00600	<0.00300	<0.152	<0.0600
MW-3	10/19/2023	<0.00300	<0.00300	<0.00600	<0.00300	<0.160	<0.0600
MW-5	10/19/2023	<0.00300	<0.00300	<0.00600	<0.00300	<0.159	<0.0600
MW-5 (Duplicate)	10/19/2023	<0.00300	<0.00300	<0.00600	<0.00300	<0.152	<0.0600
MW-6	10/19/2023	<0.00300	<0.00300	<0.00600	<0.00300	0.464	0.292
MW-7	10/19/2023	<0.00300	<0.00300	<0.00600	<0.00300	<0.159	<0.0600

Notes:

2023 Q2 samples were not collected due to oilfield atmospheric safety conditions.

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

HFS = HF Sinclair

mg/L = milligrams per liter

NM WQCC = New Mexico Water Quality Control Commission groundwater standard for human health exposure, 20.6.2.3103.A NMAC

NMAC = New Mexico Administrative Code

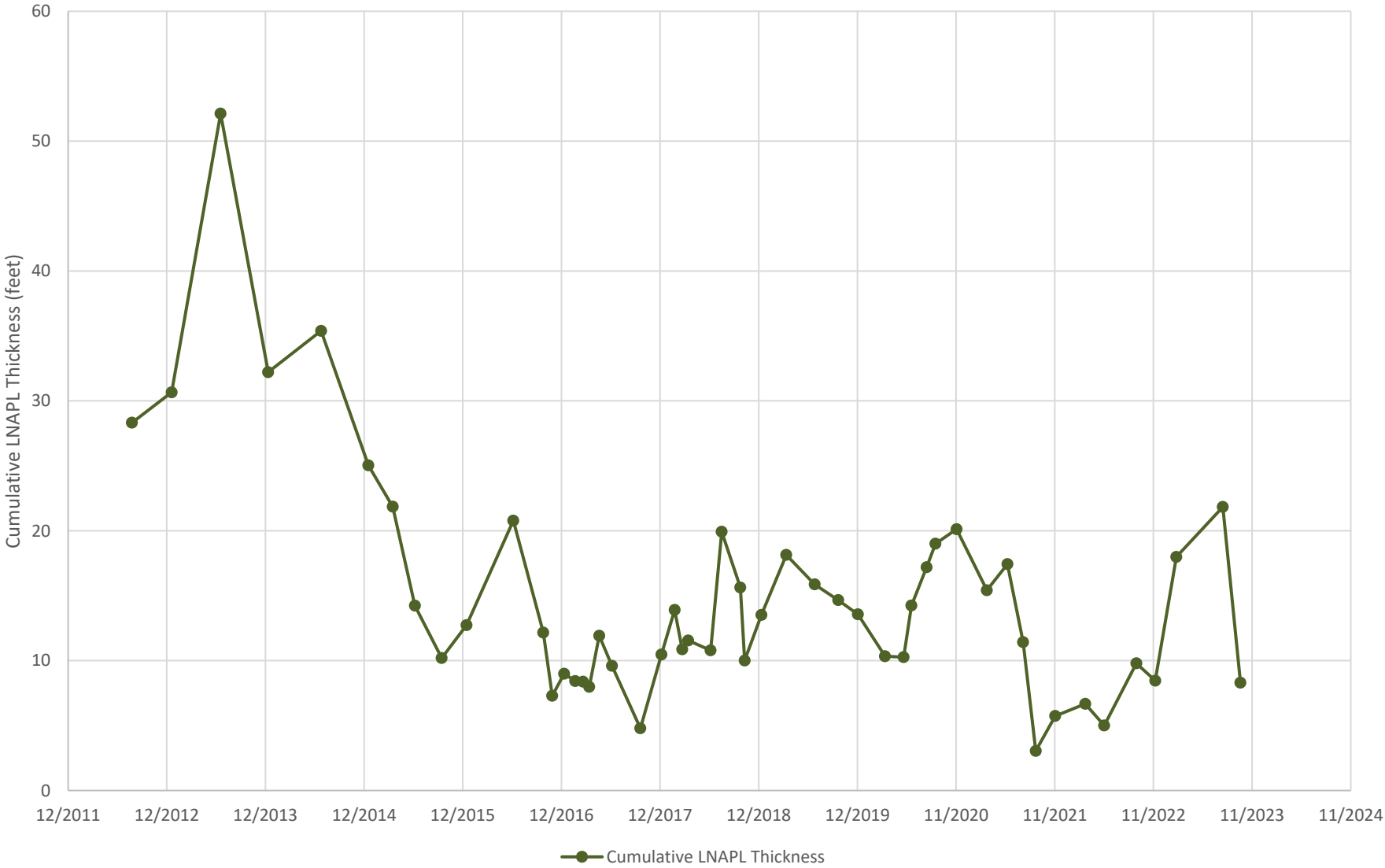
TPH = Total Petroleum Hydrocarbons

Laboratory Footnotes:

C = Out of hold time due to laboratory error, corrective action.

CHART 1

Chart 1
Cumulative LNAPL Thickness Over Time
HF Sinclair North Monument 6-Inch Gathering Line AP# 34
Lea County, New Mexico



TECHNICAL MEMORANDUM

Technical Memorandum

To: Dana Helbert, Assistant Project Manager **Project No.:** 524199
From: Jeffrey Hansen, P.H., TRC
Subject: LNAPL Transmissivity Testing & Recommendations
Client: HF Sinclair
Site: North Monument 6-Inch Gathering Line, AP #34
Location: Maddox Road, Lea County, New Mexico
Date: December 18, 2023
cc: Bryan Gilbert, TRC; Teal Glass, TRC

TRC Environmental Corporation (TRC) performed Light Non-Aqueous Phase Liquid (LNAPL) Transmissivity tests at four monitoring wells (i.e., BH-17, BH-39, BH-103, and WBH-20) located at the above-referenced HF Sinclair Site in Lea County, New Mexico. The tests were conducted during the period between October 18 and 20, 2023 and in accordance with TRC Standard Operating Procedure (SOP) ECR-017 *Hydrocarbon Bail down Test Revision 3* dated January 2020. The purpose of the tests was to estimate LNAPL transmissivities, which can be used as a metric for evaluating the potential mobility and practicality of recovering LNAPL at a Site. According to the Interstate Technology & Regulatory Council (ITRC), LNAPL transmissivity of 0.8 feet² per day (ft²/day) represents a typical upper end threshold for mobility and recoverability (ITRC, 2009). Many states consider LNAPL recovery by hydraulic or pneumatic systems to be impractical and unsustainable when LNAPL transmissivities are below this value.

LNAPL transmissivity data were processed and evaluated using the American Petroleum Institute (API) LNAPL Transmissivity Workbook (API, April 2016) and in accordance with TRC SOP ECR-025 *Interpretation of Bail down Test Data for Estimation of LNAPL Transmissivity* dated January 2020. Based upon geologic conditions noted on area boring logs and evaluation of LNAPL drawdown-discharge responses, LNAPL exists under unconfined conditions. Therefore, data from the wells were analyzed using the Bouwer & Rice, Cooper-Jacob, and Cooper-Bredehoeft-Papadopoulos Methods for unconfined LNAPL. The relative density of LNAPL used for the analysis was 0.763 measured in LNAPL collected from BH-42 located in the vicinity of the tested wells.

With the exception of spreadsheets for the Cooper Jacob Method for wells BH-39, BH-103, and WBH-20, copies of the API LNAPL Transmissivity Workbook spreadsheets present the data analysis are included in Attachment 1. A match to the data could not be achieved using Cooper

LNAPL Transmissivity Memorandum

December 18, 2023

Page 2 of 2

Jacob for wells BH-39, BH-103, and WBH-20. Resulting LNAPL transmissivities calculated for the wells are summarized in Table 1 below.

Table 1 Summary of LNAPL Transmissivity HF Sinclair North Monument 6-Inch Gathering Line, AP #34 Site Lea County, New Mexico				
Well	LNAPL Transmissivity (ft²/day)			
	Bouwer & Rice	Cooper-Jacob	Cooper-Bredehoeft-Papadopulos	Mean
BH-17	0.08	0.09	0.2	0.12
BH-39	0.12	---	0.71	0.42
BH-103	0.92	---	1.86	1.39
WBH-20	6.53	---	20.52	13.53

Note: --- = Match to data could not be achieved.

Based on the data presented herein, LNAPL transmissivities at monitoring well locations BH-17 and BH39 are below the upper threshold for sustainable LNAPL recovery. BH-103 exhibited an LNAPL transmissivity range near the upper threshold for sustainable LNAPL recovery indicating that LNAPL recovery from this well would likely be limited. This is supported by the slow recovery of LNAPL (only 0.2 feet) after approximately 24 hours of recovery.

The highest LNAPL transmissivity occurred at WBH-20 and was more than 8 times the upper threshold for LNAPL recovery indicating that potentially recoverable LNAPL may be present in the vicinity of this well.

References

API, 2016. *API LNAPL Transmissivity Workbook: A Tool for Bail down Test Analysis*, User's Guide. API Publication 4762. April.

ITRC, 2009. *Evaluating LNAPL Remedial Technologies for Achieving Project Goals*. Technical and Regulatory Guidance Document. December.

Attachment 1

API LNAPL Transmissivity Analysis Spreadsheets

Generalized Bouwer and Rice (1976)

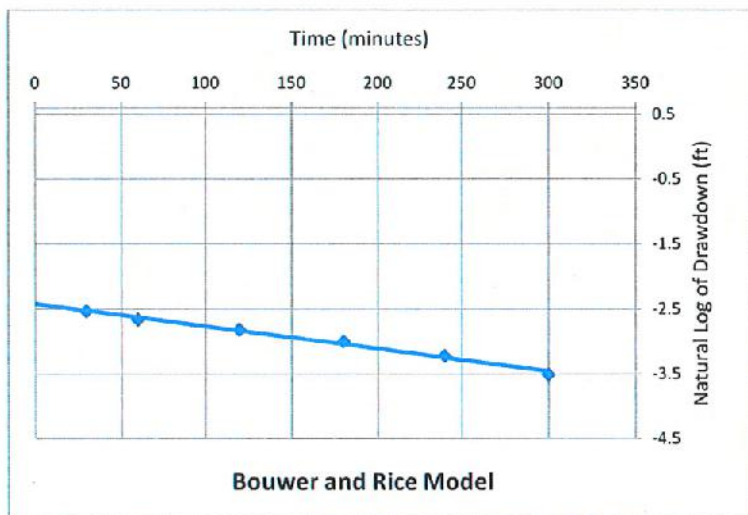
Well Designation: BH-17
Date: 20-Oct-23

$$T_n = \frac{r_e^2 \ln(R/r_e) \ln(s_n(t_1)/s_n(t))}{2(-J)(t - t_1)}$$

Enter early time cut-off for least-squares model fit

Time_{cut} 180.5 <- Enter or change value here

Model Results: T_n (ft²/d) = 0.08 +/- 0.00 ft²/d

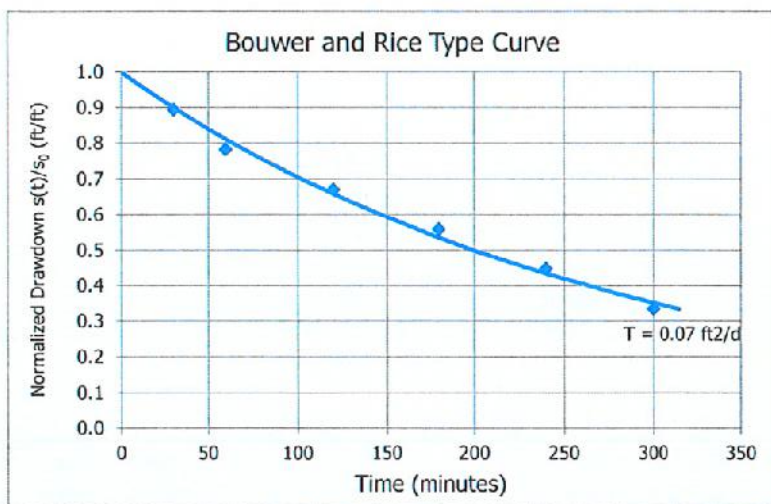


L_e/r_e
5.3
C
1.00
R/r_e
3.25

J-Ratio
-1.000

Coef. Of Variation
0.05

C coefficient calculated from Eq. 6.5(c) of Butler, The Design, Performance, and Analysis of Slug Tests, CRC Press, 2000.



Cooper and Jacob (1946)

Well Designation:	BH-17
Date:	20-Oct-23

$$V_n(t_i) = \sum_j^i \frac{4\pi T_n S_j}{\ln\left(\frac{2.25 T_n t_j}{r_e^2 S_n}\right)} \Delta t_j$$

Enter early time cut-off for least-squares model fit

Time _{cut} (min):	180.5	<- Enter or change values here
Time Adjustment (min):	120.9	

Trial S_n : d <-- Enter d for default or enter S_n value

Root-Mean-Square Error: 0.008 <-- Minimize this using "Solver"

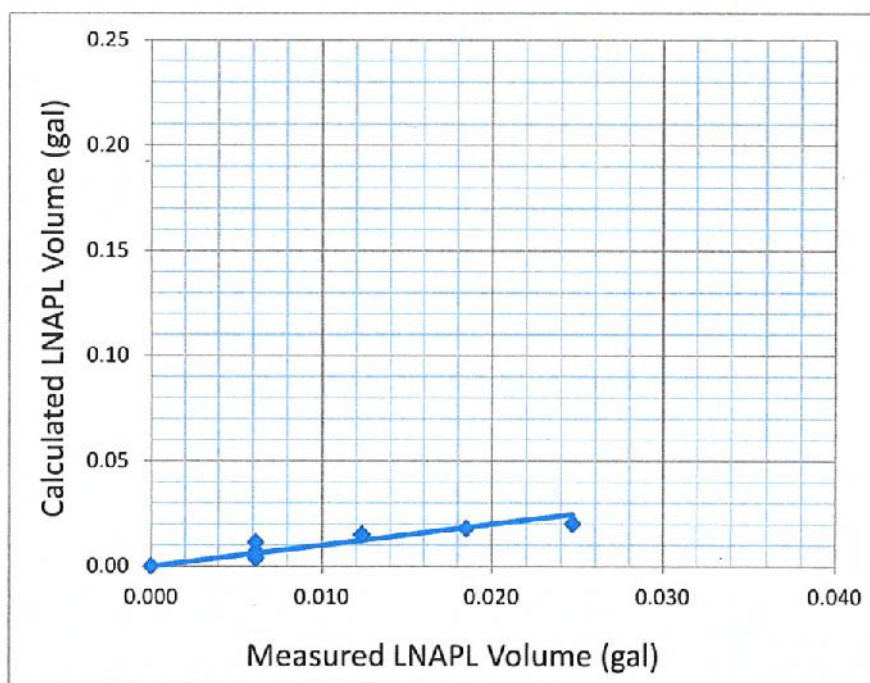
0.007 <-- Working S_n

Trial T_n (ft²/d): 0.086 <-- By changing T_n through "Solver"

Add constraint $T_n > 0.00001$

Model Result:

T_n (ft²/d) = 0.09



Cooper, Bredehoeft and Papadopoulos (1967)

Well Designation:	BH-17
Date:	20-Oct-23

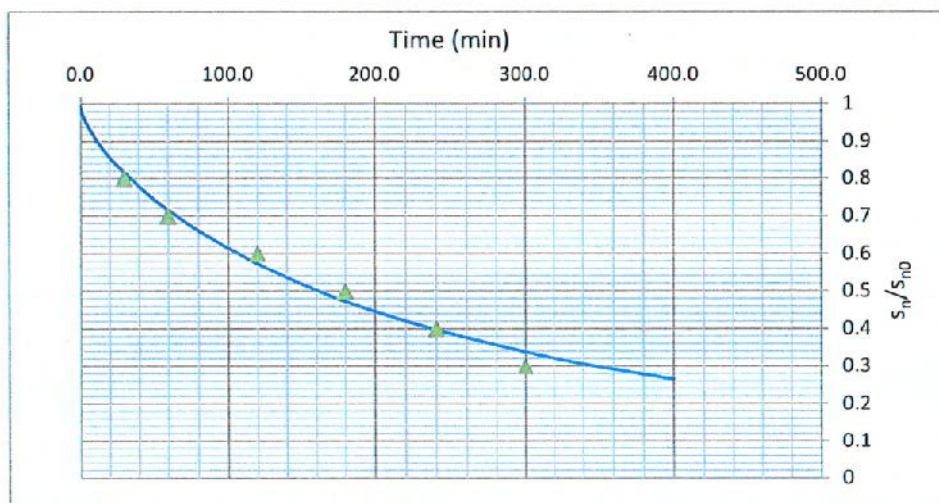
Enter early time cut-off for least-squares model fit

Time _{cut} (min):	180.5	<-- Enter or change values here
Initial Drawdown s_n (ft):	0.1	

Trial S_n : <-- Enter d for defaultRoot-Mean-Square Error: <-- Minimize this using "Solver"Trial T_n (ft²/d): <-- By changing T_n through "Solver" <-- Working S_n Add constraint $T_n > 0.00001$ **Model Result:**

T_n (ft ² /d) =	0.20
------------------------------	------

T_{min}	0.1
T_{max}	400

J-Ratio
-1.000

Generalized Bouwer and Rice (1976)

Well Designation: BH-39
Date: 20-Oct-23

$$T_n = \frac{r_e^2 \ln(R/r_e) \ln(s_n(t_1)/s_n(t))}{2(-J)(t - t_1)}$$

Enter early time cut-off for least-squares model fit

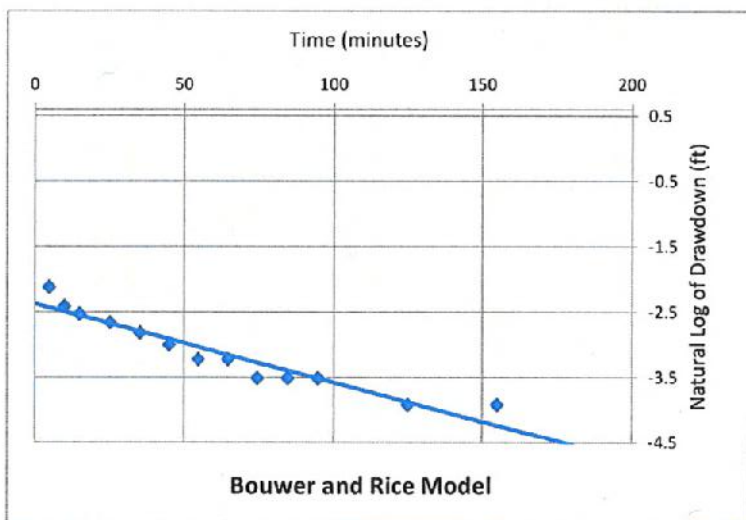
Time_{cut} 26 <- Enter or change value here

Model Results: T_n (ft²/d) = 0.12 +/- 0.01 ft²/d

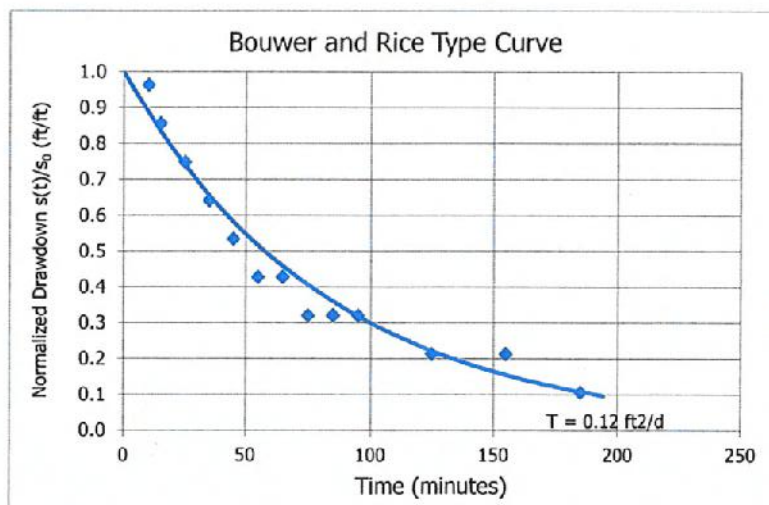
L_e/r_e
3.7
C
0.94
R/r_e
2.49

J-Ratio
-1.700

Coef. Of
Variation
0.07



C coefficient calculated from Eq. 6.5(c) of Butler, The Design, Performance, and Analysis of Slug Tests, CRC Press, 2000.



Cooper, Bredehoeft and Papadopoulos (1967)

Well Designation:	BH-39
Date:	20-Oct-23

Enter early time cut-off for least-squares model fit

Time _{cut} (min):	26	<-- Enter or change values here
Initial Drawdown s_n (ft):	0.15	

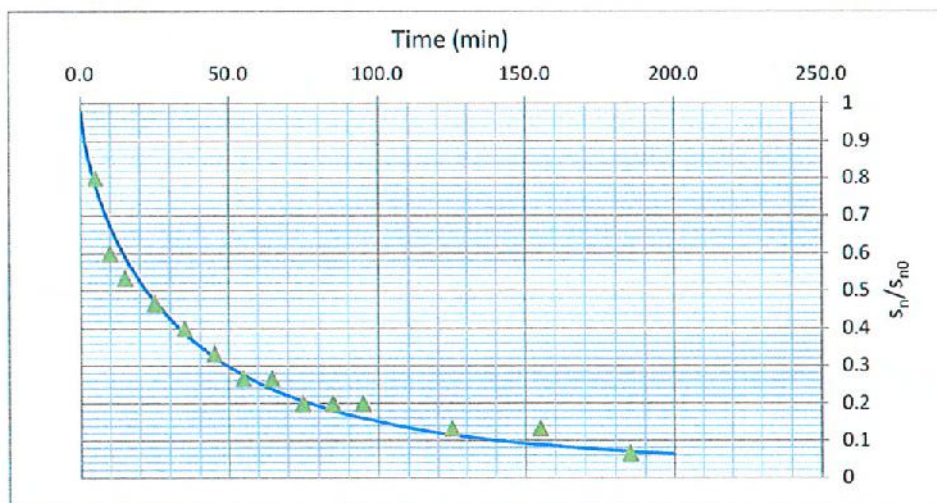
Trial S_n : d <-- Enter d for default

Root-Mean-Square Error: 0.121 <-- Minimize this using "Solver"

Trial T_n (ft²/d): 0.709 <-- By changing T_n through "Solver"0.021 <-- Working S_n Add constraint $T_n > 0.00001$ **Model Result:**

T_n (ft ² /d) =	0.71
------------------------------	------

T_{min}	0.1
T_{max}	200

J-Ratio
-1.700

Generalized Bouwer and Rice (1976)

Well Designation: BH-103
Date: 18-Oct-23

$$T_n = \frac{r_e^2 \ln(R/r_e) \ln(s_n(t_1)/s_n(t))}{2(-J)(t - t_1)}$$

Enter early time cut-off for least-squares model fit

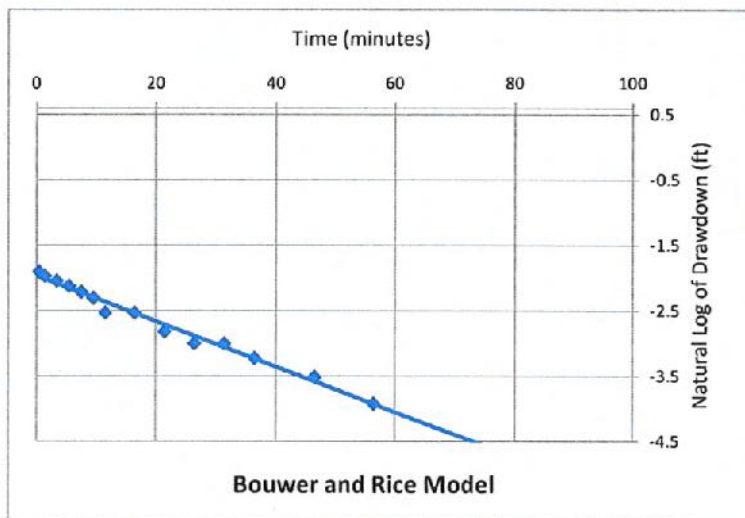
Time_{cut} 9 <- Enter or change value here

Model Results: T_n (ft²/d) = 0.92 +/- 0.02 ft²/d

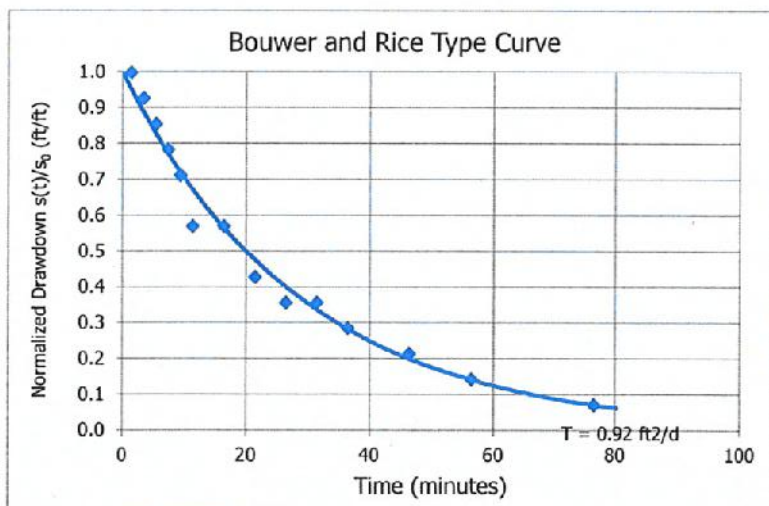
L_e/r_e
6.0
C
1.03
R/r_e
3.56

J-Ratio
-0.903

Coef. Of Variation
0.03



C coefficient calculated from Eq. 6.5(c) of Butler, The Design, Performance, and Analysis of Slug Tests, CRC Press, 2000.



Cooper, Bredehoeft and Papadopoulos (1967)

Well Designation:	BH-103
Date:	18-Oct-23

Enter early time cut-off for least-squares model fit

Time _{cut} (min):	9	<-- Enter or change values here
Initial Drawdown s_n (ft):	0.16	

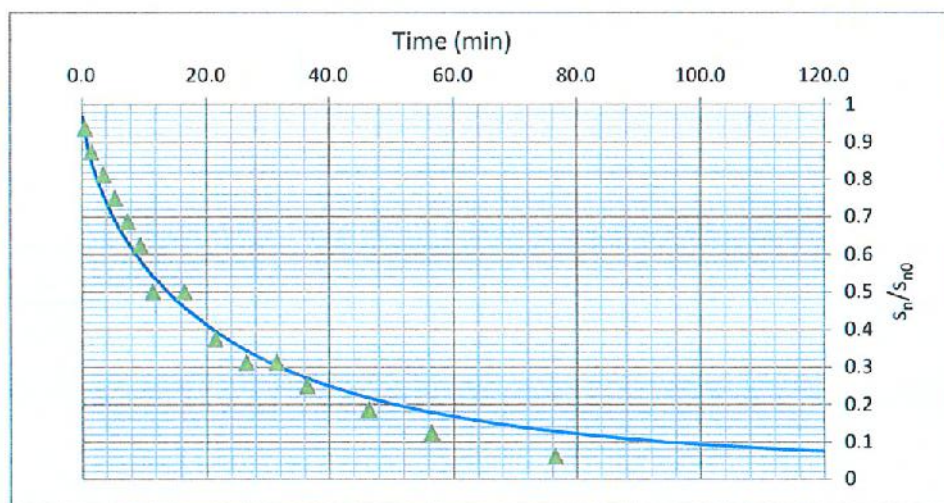
Trial S_n : d <-- Enter d for default

Root-Mean-Square Error: 0.159 <-- Minimize this using "Solver"

Trial T_n (ft²/d): 1.856 <-- By changing T_n through "Solver"0.034 <-- Working S_n Add constraint $T_n > 0.00001$ **Model Result:**

T_n (ft ² /d) =	1.86
------------------------------	------

T_{min}	0.1
T_{max}	120

J-Ratio
-0.903

Generalized Bouwer and Rice (1976)

Well Designation: WBH-20
Date: 18-Oct-23

$$T_n = \frac{r_e^2 \ln(R/r_e) \ln(s_n(t_1)/s_n(t))}{2(-J)(t - t_1)}$$

Enter early time cut-off for least-squares model fit

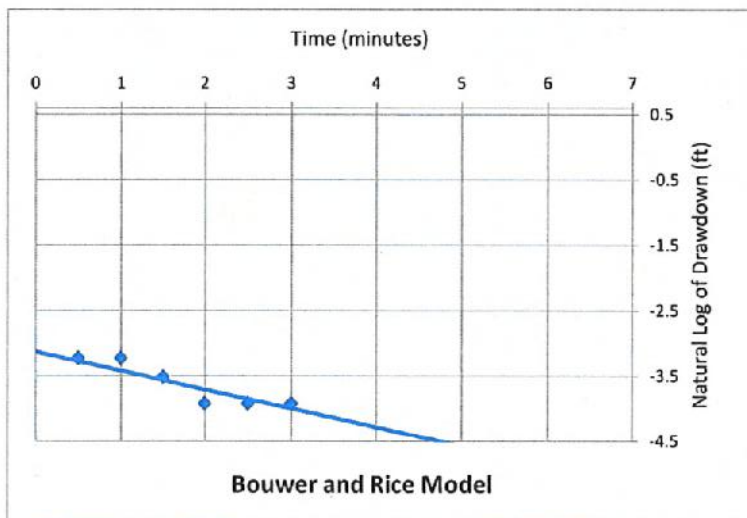
Time_{cut} <- Enter or change value here

Model Results: T_n (ft²/d) = 6.53 +/- 0.85 ft²/d

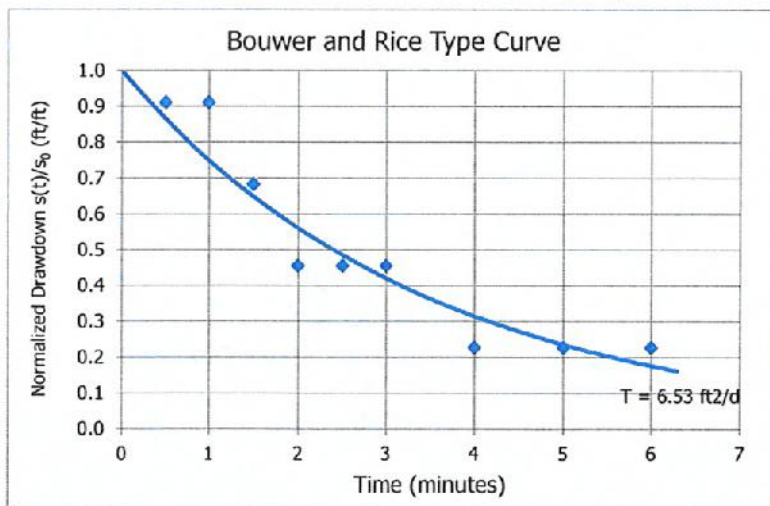
L_e/r_e
2.8
C
0.90
R/r_e
2.04

J-Ratio
-0.596

Coef. Of Variation
0.13



C coefficient calculated from Eq. 6.5(c) of Butler, The Design, Performance, and Analysis of Slug Tests, CRC Press, 2000.



Cooper, Bredehoeft and Papadopoulos (1967)

Well Designation:	WBH-20
Date:	18-Oct-23

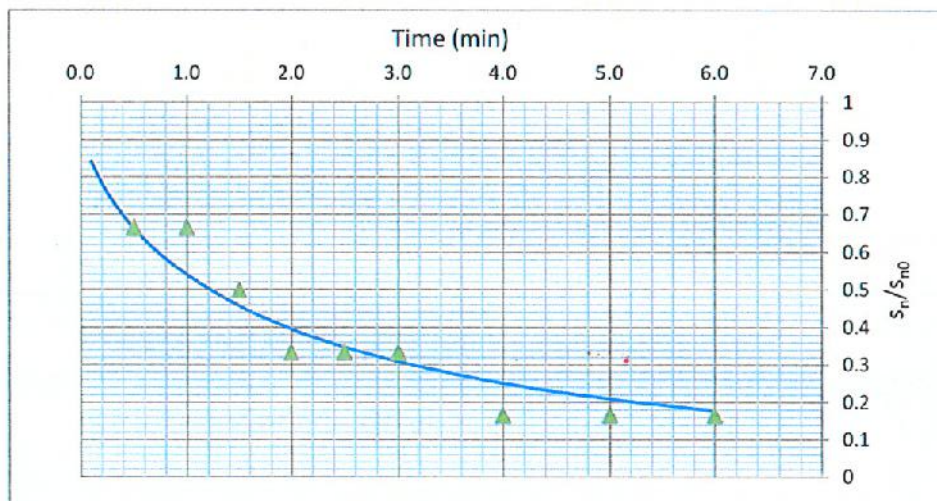
Enter early time cut-off for least-squares model fit

Time _{cut} (min):	1	<- Enter or change values here
Initial Drawdown s_n (ft):	0.06	

Trial S_n : d <- Enter d for defaultRoot-Mean-Square Error: 0.178 <- Minimize this using "Solver"Trial T_n (ft²/d): 20.520 <- By changing T_n through "Solver"0.113 <- Working S_n Add constraint $T_n > 0.00001$ **Model Result:**

T_n (ft ² /d) =	20.52
------------------------------	-------

T_{min}	0.1
T_{max}	6



J-Ratio	-0.596
---------	--------

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

CONDITIONS

Action 306807

CONDITIONS

Operator: HF Sinclair Navajo Refining LLC ATTN: GENERAL COUNSEL Dallas, TX 75201	OGRID: 15694
	Action Number: 306807
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review for the report titled, Request for Modifications to Stage 2 Abatement Plan HF Sinclair, North Monument 6-Inch Gathering Line AP# 34, Monument, New Mexico 1. Modification to the schedule as proposed is approved. 2. Based on trends demonstrated by the transmissivity test results, EFR schedule may be reduced as proposed in the ST2 modification proposal. Reduce EFR events from monthly to quarterly. (previously approved by OCD) 3. The OCD agrees that the LNAPL plume is stable and decreasing for the portion that remains. 4. Focus EFR events on the western portion and edge of the release. 5. HF Sinclair previously given approval on 07/08/2024 to reduce groundwater monitoring events to semi-annual from quarterly events. 6. Please keep OCD apprised of any other site changes for consideration.	1/7/2025