Atlantic Richfield Company

Paul G. Johnson

Liability Manager

Remediation Management 30 S. Wacker Drive Chicago, IL 60606 Phone: (331) 236-1415 Mobile: (630) 731-4463 E-Mail: paul.johnson4@bp.com

February 6, 2023

Jessica LaClair
Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7016

RE: Monthly Progress Report, January 2023 Former Anaconda Plant (a.k.a. Harbor at Hastings Site) Site No. 3-60-022 Hastings-On-Hudson, New York

Dear Ms. LaClair:

Enclosed is the January 2023 Monthly Progress Report for the Former Anaconda Plant (a.k.a. Harbor at Hastings Site), New York State Department of Environmental Conservation (NYSDEC) Site No. 3-60-022, Hastings-on-Hudson, New York. This progress report has been prepared in accordance with Section XI of the AMENDED ORDER ON CONSENT and ADMINISTRATIVE SETTLEMENT between Atlantic Richfield Company and NYSDEC, dated November 6, 2013. The time period covered is January 1, 2023, through January 31, 2023.

If you have any questions or comments on this submittal, please feel free to contact me at 630-731-4463.

Sincerely,

Paul G. Johnson Liability Manager

PMM. JL

Enclosure



cc: Village Manager Mary Beth Murphy, Hastings-On-Hudson

Mark Chertok, Hastings-On-Hudson Karl Coplan, Pace/Riverkeeper

File

ecc: David Harrington, Director, Bureau D, NYSDEC DER

David Tromp, Section Chief, Bureau D, Section A, NYSDEC DER

Melissa Doroski, New York State Department of Health Jacquelyn Nealon, New York State Department of Health Phoebe Gittlelson, NYSDEC, Office of General Counsel

Mayor Nicola Armacost, Hastings-On-Hudson Trustee Morgan Fleisig, Hastings-On-Hudson

Village Manager Mary Beth Murphy, Hastings-On-Hudson

Nat Federici, P.E., Westchester County Department of Environmental Facilities

Rachel Noe, Westchester County

Jim Lucari, BP

Michael Daneker, Arnold & Porter

Martha Gopal, Sovereign Consulting Inc.

FORMER ANACONDA WIRE AND CABLE PLANT SITE (a.k.a. HARBOR AT HASTINGS SITE) OU1 NYSDEC SITE 360022 MONTHLY PROGRESS REPORT 212

PREPARED BY: Atlantic Richfield Company

Paul Johnson

REPORTING PERIOD: January 1, 2023 through January 31, 2023

1. PROGRESS MADE THIS REPORTING PERIOD:

- DNAPL gauging and recovery was performed on January 3 and 4, 2023. HARW-2, HARW-5, and HARW-7 were gauged and pumped as required by the August 2011 Design Basis Memorandum.
- Progress continued on these on-going design-related activities:
 - o Development of shoreline concepts
 - o Wetland design meeting with NYSDEC December 12, 2022.
 - o Old Marina / Kinnally Cove stability evaluation for dredging
 - o OU-1 and OU-2 material handling evaluation.
 - o Design team has engaged West Chester County Department of Environmental Facilities regarding underground utilities.
 - o SPDES Permit Equivalent Application
 - o Other design elements
 - o Biological Assessment / Not Likely to Adversely Affect Documentation and Essential Fish Habitat Reports (NMFS)
 - o Nationwide Permit 38 Pre-Construction Notification
 - Joint Permit Application
 - o Draft Permit Matrix Submitted to NYSDEC November 17, 2022
 - TSCA Risk-Based Disposal Action Application from USEPA; NYSDEC and USEPA TSCA met March 30, 2022; USEPA TSCA requested revisions in email dated June 27, 2022. Follow up call with NYSDEC and USEPA TSCA held July 11, 2022; revisions to application in progress and scheduling future calls to review and respond to revisions.

2. UNANTICIPATED PROBLEM AREAS AND RECOMMENDED SOLUTIONS

• None this reporting period.

3. PROBLEMS RESOLVED

None this reporting period.

4. DELIVERABLES SUBMITTED / RECEIVED

• January 6, 2023, Atlantic Richfield to NYSDEC: Hastings December 2022 Monthly Progress Report.

5. UPCOMING EVENTS / ACTIVITIES PLANNED

- Scheduling of subsequent gauging and recovery events will be dependent on the developing COVID-19 situation and AR will continue to communicate with NYSDEC regarding schedule. The tentative schedule is outlined below.
- The next three DNAPL gauging and recovery events are tentatively scheduled to occur the weeks of February 6, 2023, March 6, 2023, and April 3, 2023.
- Continue the Water Tower LNAPL IRM activities, as allowable, in accordance with the IRM Work Plan (Fluor Daniel GTI, December 1997), Fluor Daniel GTI correspondence to the NYSDEC dated May 18, 1998, and Atlantic Richfield correspondence with the NYSDEC on September 2, 2010. The next LNAPL IRM event is tentatively scheduled to occur the week of April 3, 2023, in accordance with the schedule modification request, from monthly to quarterly, sent by Atlantic Richfield to NYSDEC on June 4, 2012, and the approval letter received from NYSDEC dated April 2, 2013.

6. KEY STAFFING

- Sovereign Consulting Inc.
- Parsons Environment and Infrastructure Group, Inc. (OM&M and Security)

7. PERCENTAGE COMPLETE

- DNAPL gauging and recovery ongoing
- LNAPL IRM ongoing

8. DATA

• Final data not generated during this reporting period.

9. CITIZEN PARTICIPATION ACTIVITIES

• None this reporting period.

LIST OF ACRONYMS

Acronym	Description

NYSDEC New York State Department of Environmental

Conservation

LNAPL Light Non-Aqueous Phase Liquid

DNAPL Dense Non-Aqueous Phase Liquid

OU Operable Unit

IRM Interim Remedial Measure

O&M Operations and Maintenance

LIST OF REFERENCES

FLUOR Daniel GTI, 1997. <u>Draft Interim Remedial Measure Work Plan – Separate Phase Liquid Recovery.</u> December.

TABLE I
JANUARY DNAPL PUMPING SUMMARY (WEEK OF 1/2/2023)
ATLANTIC RICHFIELD
1 RIVER STREET
HASTINGS-ON-HUDSON, NEW YORK

Well ID	Date Gauged/ Pumped	Installation Angle (deg)	Pre-Pumping Uncorrected Apparent Height (inches)	Pre-Pumping Corrected Apparent Height (inches)	Post-Pumping Uncorrected Apparent Height (inches)	Post-Pumping Corrected Apparent Height (inches)	Total Fluids Removed (gallons) ⁴	Total DNAPL Removed (gallons) ⁶	Post-Purging Distance of DNAPL Surface Below MS/Fill Interface (ft) ⁵
HARW-1	1/3/2023 1	0	0	0	NA**	NA**	NA**	NA**	NA**
HARW-2	1/3/2023 2	0	24.0	24.0			13.9	4.8	4.5
HARVV-2	1/3/2023 3	U			2.0	2.0	13.9	4.0	4.5
HARW-3	1/3/2023 2	16.5	6.0	5.8			NA**	NA**	3.8
HARW-3	NA** 3	10.5			NA**	NA**			3.6
HARW-4	1/3/2023 ²	24.5	10.0	9.1			NA**	NA**	3.3
TIANVV-4	NA** 3	24.5			NA**	NA**	IVA		5.5
HARW-5	1/3/2023 2	23.5	25.0	22.9			28.1	5.2	4.2
nakw-5	1/4/2023 3	23.5			1.0	0.9	28.1	5.2	4.2
	1/3/2023 2	11.0	2.0	1.9				A1A **	
HARW-6	NA** 3	14.0			NA**	NA**	NA**	NA**	4.4
HARW-7	1/3/2023 2	0	24.0	24.0			14	4.4	4.4
nakw-/	1/4/2023 3	U			4	4.0	14	4.4	4.4
HARW-8	1/3/2023 2	0	9.0	9.0			NA**	NA**	4.0
TIAINW-0	NA** 3	0			NA**	NA**	INA	IVA	4.0
HAOW-12A	1/3/2023 2	0	3.0	3.0			NA**	NA**	4.9
HAUW-12A	NA** 3	U			NA**	NA**	IVA	INA	4.9

Total Gallons of DNAPL Removed:

14.4

Notes:

Apparent Height: refers to the distance between the DNAPL surface and the bottom of the well sump which includes all fluids (groundwater and DNAPL) in the matrix. NA: Not Applicable

¹DNAPL not present, pumping not completed in this well

²Pre-pumping gauge date

³Post-pumping gauge date.

⁴Total gallons of fluid (DNAPL and groundwater) removed from well based on measurement in container.

 $^{^{5}}$ Represents the distance of the post-purging DNAPL material interface from the top of the MS/Fill interface.

⁶Unless otherwise noted, this column refers to the total volume of DNAPL removed based calculation of volume based on well diameter and height of DNAPL in the well.

^{*}DNAPL is present but is under 6-inches and discontinuous.

^{**}Volume in the well is less than threshold required to perform DNAPL pumping procedures.

	Date	Depth to Product (ft)	Product Apparent Height - Pre-pumping (ft)	Product Apparent Height - Post-pumping (ft)	Approximate Volume of Product Recovered (gallons) ³	Days Elapsed Between Measurement Readings	Measurement Tool Used	Recovery Procedure Used
MW-12	Cumulative 10/9/2006 - 7/29/2010	-		-	5.0	-	-	-
		TOTAL VOLUME RI	COVERED TO DATE F	ROM MW-12 (GALLONS)	5.0			
HAOW-12A	Cumulative 3/2/2009 - 12/7/2020	-	-	-	49.7	-	DMT ⁴	-
	1/4/2021	42.7	0.9	-	-	28	DMT ⁴	-
	2/1/2021		DNAPL pur	ping not completed due	to adverse weather conditions		-	-
	3/1/2021	42.6	1.0	-	-	56	DMT ⁴	-
	4/5/2021	42.4	1.2	-	-	35	DMT ⁴	-
	5/3/2021	42.6	1.0	-	-	28	DMT ⁴	-
	6/7/2021	42.6	1.0	-	-	35	DMT ⁴	-
	7/5/2021		DNAPL pur	-	-			
	8/16/2021	42.6	1.0	-	-	70	DMT ⁴	-
	9/7/2021	42.9	0.7	-	-	22	DMT ⁴	-
	10/11/2021	42.8	0.8	-	-	34	DMT ⁴	-
	11/1/2021	43.2	0.4	-	-	21	DMT ⁴	-
	12/6/2021	43.1	0.5	-	-	35	DMT ⁴	-
	1/3/2022		DNAPL p	-	-			
	2/7/2022	43.0	0.6	-	-	63	DMT ⁴	-
	3/7/2022	43.2	0.4	-	-	28	DMT ⁴	-
	4/4/2022	43.1	0.5	-	-	28	DMT ⁴	-
	5/2/2022	43.2	0.4	-	-	28	DMT ⁴	-
	6/7/2022	43.2	0.4	-	-	36	DMT ⁴	-
	7/4/2022			ping not completed due	to adverse weather conditions		-	-
	8/1/2022	43.1	0.5	-	-	55	DMT ⁴	-
	9/6/2022	43.0	0.6	-	-	36	DMT ⁴	<u>-</u>
	10/3/2022	42.6	1.0	-	-	27	DMT ⁴	-
	11/7/2022	43.3	0.3	-	-	35	DMT ⁴	-
	12/5/2022	43.4	0.2	-	-	28	DMT ⁴	-
	1/3/2023	43.4	0.3	-	-	29	DMT ⁴	-
		TOTAL VOLUME RECO	VERED TO DATE FROM	HAOW-12A (GALLONS)	49.7			

SOVEREIGN CONSULTING INC. Page 1 of 6

	Date	Depth to Product (ft)	Product Apparent Height - Pre-pumping (ft)	Product Apparent Height - Post-pumping (ft)	Approximate Volume of Product Recovered (gallons) ³	Days Elapsed Between Measurement Readings	Measurement Tool Used	Recovery Procedure Used
HARW-1	Cumulative 9/29/2010 - 12/7/2020	-	-	-	0.0	-	-	
	1/4/2021	No product detected	0.0	-	-	28	DMT ⁴	-
	2/1/2021		DNAPL pum	ping not completed due	o adverse weather conditions		-	-
	3/1/2021	No product detected	0.0	-	-	56	DMT ⁴	-
	4/5/2021	No product detected	0.0		-	35	DMT ⁴	-
	5/3/2021	No product detected	0.0	-	-	28	DMT ⁴	-
	6/7/2021	No product detected	0.0	-	-	35	DMT ⁴	-
	7/5/2021		DNAPL pum	ping not completed due	o adverse weather conditions		-	-
	8/16/2021	No product detected	0.0		-	70	DMT ⁴	-
	9/7/2021	No product detected	0.0	-	-	22	DMT ⁴	-
	10/11/2021	No product detected	0.0	-	-	34	DMT ⁴	-
	11/1/2021	No product detected	0.0	-	-	21	DMT ⁴	-
	12/6/2021	No product detected	0.0	-	-	35	DMT ⁴	-
	1/3/2022		DNAPL p	-	-			
	2/7/2022	No product detected	0.0	-	-	63	DMT ⁴	-
	3/7/2022	No product detected	0.0	-	-	28	DMT ⁴	-
	4/4/2022	No product detected	0.0		-	28	DMT ⁴	-
	5/2/2022	No product detected	0.0	-	-	28	DMT ⁴	-
	6/7/2022	No product detected	0.0	-	-	36	DMT ⁴	-
	7/4/2022		DNAPL pur	ping not completed due	o adverse weather conditions		-	-
	8/1/2022	No product detected	0.0	-	-	55	DMT ⁴	-
	9/6/2022	No product detected	0.0	-	-	36	DMT ⁴	-
	10/3/2022	No product detected	0.0	-	-	27	DMT ⁴	-
	11/7/2022	No product detected	0.0	•	=	35	DMT ⁴	-
	12/5/2022	No product detected	0.0	-	-	28	DMT ⁴	-
	1/3/2023	No product detected	0.0	-	-	29	DMT⁴	-
		TOTAL VOLUME REC	OVERED TO DATE FRO	M HARW-1 (GALLONS)	0.0			

SOVEREIGN CONSULTING INC. Page 2 of 6

	Date	Depth to Product (ft)	Product Apparent Height - Pre-pumping (ft)	Product Apparent Height - Post-pumping (ft)	Approximate Volume of Product Recovered (gallons) ³	Days Elapsed Between Measurement Readings	Measurement Tool Used	Recovery Procedure Used
HARW-2	Cumulative 9/29/2010 - 12/7/2020	-	-	-	862.6	-	-	-
	1/4/2021	38.0	2.0	0.08	5	28	DMT ⁴	double diaphragm pump
	2/1/2021		DNAPL pun	nping not completed due	o adverse weather conditions		-	-
	3/1/2021	39.0	1.0	-	-	56	DMT ⁴	double diaphragm pump
	4/5/2021	38.3	1.8	-	-	35	DMT ⁴	-
	5/3/2021	37.3	2.7	0.08	6.7	28	DMT ⁴	double diaphragm pump
	6/7/2021	39.2	0.8	-	-	35	DMT ⁴	-
	7/5/2021			ping not completed due	o adverse weather conditions			-
	8/16/2021	38.3	1.8	-	-	70	DMT ⁴	-
	9/7/2021	37.5	2.5	0.33	5.7	22	DMT ⁴	double diaphragm pump
	10/11/2021	39.0	1.0	-	-	34	DMT ⁴	-
	11/1/2021	38.8	1.3	-	-	21	DMT ⁴	-
	12/6/2021	38.5	1.5	-	-	35	DMT ⁴	-
	1/3/2022				ue to COVID-19 restrictions			
	2/8/2022	37.8	2.3	0.33	5	64	DMT ⁴	double diaphragm pump
	3/7/2022	39.0	1.0	-	-	27	DMT ⁴	-
	4/4/2022	38.3	1.8	-	-	28	DMT ⁴	
	5/3/2022	38.0	2.0	0.08	5	29	DMT ⁴	double diaphragm pump
	6/7/2022	39.3	0.8	-	- 1	35	DMT ⁴	-
	7/4/2022	20.0		nping not completed due t	o adverse weather conditions	55	- DAT ⁴	-
	8/1/2022	38.3	1.8	-	5.4	55	DMT ⁴	-
	9/7/2022	37.8	2.2	0.08		37	DMT ⁴	double diaphragm pump
	10/3/2022	39.8	0.3	-	-	26	DMT ⁴	-
	11/7/2022	39.1	0.9	-	-	35	DMT ⁴	-
	12/5/2022	38.8	1.2	- 0.47	-	28	DMT ⁴	-
	1/3/2023	38.0	2.0	0.17	4.8	29	DIVIT	double diaphragm pump
		TOTAL VOLUME REC	OVERED TO DATE FRO	OM HARW-2 (GALLONS)	900.2			
HARW-3	Cumulative 10/14/2010 - 12/7/2020	-			28.6	-		-
martir-0	1/4/2021	38.5	0.5	-	-	28	DMT ⁴	-
	2/1/2021	00.0		nping not completed due	o adverse weather conditions	20	-	-
	3/1/2021	38.5	0.5	-	-	56	DMT ⁴	-
	4/5/2021	38.3	0.8	-	-	35	DMT ⁴	-
	5/3/2021	38.5	0.5	-	-	28	DMT ⁴	-
	6/7/2021	38.4	0.6	-	-	35	DMT ⁴	-
	7/5/2021		DNAPL pun	nping not completed due	o adverse weather conditions		-	-
	8/16/2021	38.4	0.6	-	-	70	DMT ⁴	-
	9/7/2021	38.5	0.5	-	-	22	DMT ⁴	-
	10/11/2021	38.3	0.7	-	-	34	DMT ⁴	-
	11/1/2021	38.4	0.6	-	-	21	DMT ⁴	-
	12/6/2021	38.3	0.8	-	-	35	DMT ⁴	-
					ie to COVID-19 restrictions		-	-
	1/3/2022			umping not completed du	10 10 00 115 10 1000110010110			
	1/3/2022 2/7/2022	38.4	0.6	oumping not completed du	-	63	DMT ⁴	-
	1/3/2022 2/7/2022 3/7/2022	38.4 38.4	0.6 0.6	-	-	28	DMT ⁴	-
	1/3/2022 2/7/2022 3/7/2022 4/4/2022	38.4 38.4 38.5	0.6 0.6 0.5	-	-	28 28	DMT ⁴	-
	1/3/2022 2/7/2022 3/7/2022 4/4/2022 5/2/2022	38.4 38.4 38.5 38.8	0.6 0.6 0.5 0.2		· ·	28 28 28	DMT ⁴ DMT ⁴	- - -
	1/3/2022 2/7/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022	38.4 38.4 38.5	0.6 0.6 0.5 0.2 0.6		-	28 28	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	- - - -
	1/3/2022 2/7/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022	38.4 38.4 38.5 38.8 38.4	0.6 0.6 0.5 0.2 0.6 DNAPL pun	- - - - - ping not completed due !		28 28 28 28 36	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	- - - -
	1/3/2022 2/7/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022	38.4 38.4 38.5 38.8 38.4 38.4	0.6 0.6 0.5 0.2 0.6 DNAPL pun	- - - - - ping not completed due		28 28 28 36	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	- - - - -
	1/3/2022 2/7/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022 9/6/2022	38.4 38.4 38.5 38.8 38.4 38.4 38.4	0.6 0.6 0.5 0.2 0.6 DNAPL pun 0.6 0.5	- - - - - - - - - - - - - - - - - - -		28 28 28 36 55 36	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴ - DMT ⁴ - DMT ⁴	- - - - - -
	1/3/2022 2/7/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022 9/6/2022 10/3/2022	38.4 38.5 38.5 38.8 38.4 38.4 38.5 38.3	0.6 0.6 0.5 0.2 0.6 DNAPL pun 0.6 0.5		o adverse weather conditions	28 28 28 36 55 36	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴ DMT ⁴ DMT ⁴	- - - - - -
	1/3/2022 2/7/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022 9/6/2022 10/3/2022 11/7/2022	38.4 38.5 38.8 38.4 38.4 38.5 38.3 38.4 38.5	0.6 0.6 0.5 0.2 0.6 DNAPL pun 0.6 0.5 0.7	- - - - ping not completed due ! - - -	o adverse weather conditions	28 28 28 36 55 36 27 35	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	- - - - - - -
	1/3/2022 2/7/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022 9/6/2022 10/3/2022 11/7/2022 12/5/2022	38.4 38.5 38.5 38.8 38.4 38.4 38.5 38.3 38.4 38.3	0.6 0.5 0.2 0.6 DNAPL pun 0.6 0.5 0.7 0.6 0.7	- - - ping not completed due l - - -		28 28 28 36 55 36 27 35 28	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴	- - - - - - - - -
	1/3/2022 2/7/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022 9/6/2022 10/3/2022 11/7/2022	38.4 38.5 38.8 38.4 38.4 38.5 38.3 38.4 38.5	0.6 0.6 0.5 0.2 0.6 DNAPL pun 0.6 0.5 0.7	- - - - ping not completed due ! - - -	o adverse weather conditions	28 28 28 36 55 36 27 35	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	- - - - - - -
	1/3/2022 2/7/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022 9/6/2022 10/3/2022 11/7/2022 12/5/2022	38.4 38.5 38.8 38.4 38.4 38.5 38.3 38.4 38.3 38.4 38.3	0.6 0.6 0.5 0.2 0.6 DNAPL pun 0.6 0.5 0.7 0.6 0.7 0.6 0.7 0.5	- - - ping not completed due l - - -		28 28 28 36 55 36 27 35 28	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴	- - - - - - - - -

SOVEREIGN CONSULTING INC.
Page 3 of 6

HARW-4	Date	Depth to Product (ft)	Product Apparent Height - Pre-pumping (ft)	Product Apparent Height - Post-pumping (ft)	Approximate Volume of Product Recovered (gallons) ³	Days Elapsed Between Measurement Readings	Measurement Tool Used	Recovery Procedure Used			
DARVV-4	Cumulative 10/14/2010 - 12/7/2020	- 1	-	-	219.0	-	-	-			
	1/4/2021	38.1	0.9	-	-	28	DMT ⁴	-			
	2/1/2021	00.1		nping not completed due	to adverse weather conditions	20	-	-			
	3/1/2021	37.8	1.2		-	56	DMT ⁴	-			
	4/5/2021	38.0	1.0	-	-	35	DMT ⁴	-			
	5/3/2021	37.8	1.2	-	-	28	DMT ⁴	-			
	6/7/2021	38.0	1.0	_	_	35	DMT ⁴	-			
	7/5/2021	00.0		nping not completed due t	to adverse weather conditions		-	-			
	8/16/2021	37.8	1.2	<u> </u>	-	70	DMT ⁴	-			
	9/7/2021	38.0	1.0	-	-	22	DMT ⁴	-			
	10/11/2021	37.8	1.2	-	-	34	DMT ⁴	-			
	11/1/2021	37.6	1.4	-	_	21	DMT ⁴	_			
	12/6/2021	37.4	1.6	_	_	35	DMT ⁴	-			
	1/3/2022	07.1		numping not completed du	ue to COVID-19 restrictions		-	-			
	2/7/2022	38.2	0.8	-	-	63	DMT ⁴	-			
	3/7/2022	37.6	1.4	-	_	28	DMT ⁴	-			
	4/4/2022	37.5	1.5	_	_	28	DMT ⁴	-			
	5/2/2022	37.8	1.3	_	_	28	DMT ⁴	_			
	6/7/2022	37.3	1.8	_	_	36	DMT ⁴	-			
	7/4/2022	37.3		ning not completed due t	to adverse weather conditions	30	- DIWIT				
	8/1/2022	37.4	1.6	ping not completed due	-	55	DMT ⁴	-			
	9/6/2022	37.2	1.8		_	36	DMT ⁴				
	10/3/2022	37.0	2.0	0.17	4.8	27	DMT ⁴	double diaphragm pump			
	11/7/2022	38.0	1.0	-	-	35	DMT ⁴	double diaphragin pump			
-	12/5/2022	38.0	1.0	-	-	28	DMT ⁴	-			
-	1/3/2022	38.2	0.8	-	-	29	DMT ⁴	-			
	1/3/2023	30.2	0.0	-	-	29	DIVIT				
	TOTAL VOLUME RECOVERED TO DATE FROM HARW-4 (GALLONS) 223.8										
			0121122 10 271121110		==010						
HARW-5	Cumulative 7/18/2011 - 12/7/2020	-	-	-	1191.5		-				
HARW-5	Cumulative 7/18/2011 - 12/7/2020 1/4/2021	38.3	2.0	0.08	1191.5 5.0	- 28	- DMT ⁴	- double diaphragm pump			
HARW-5		38.3				- 28	- DMT ⁴ -	- double diaphragm pump -			
HARW-5	1/4/2021	38.3 36.7			5.0	- 28 56		double diaphragm pump - double diaphragm pump			
HARW-5	1/4/2021 2/1/2021		DNAPL pun	ping not completed due	5.0 to adverse weather conditions		-	- double diaphragm pump			
HARW-5	1/4/2021 2/1/2021 3/1/2021	36.7	DNAPL pun 3.6	nping not completed due to 0.31	5.0 to adverse weather conditions 9.4	56	- DMT ⁴	-			
HARW-5	1/4/2021 2/1/2021 3/1/2021 4/5/2021	36.7 37.1	DNAPL pun 3.6 3.2	nping not completed due to 0.31 0.04	5.0 to adverse weather conditions 9.4 8.2	56 35	- DMT ⁴ DMT ⁴	- double diaphragm pump double diaphragm pump -			
HARW-5	1/4/2021 2/1/2021 3/1/2021 4/5/2021 5/3/2021	36.7 37.1 38.7	DNAPL pun 3.6 3.2 1.6 4.4	ping not completed due 0.31	5.0 to adverse weather conditions 9.4 8.2	56 35 28	- DMT ⁴ DMT ⁴ DMT ⁴	- double diaphragm pump			
HARW-5	1/4/2021 2/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021	36.7 37.1 38.7	DNAPL pun 3.6 3.2 1.6 4.4	ping not completed due 0.31	5.0 to adverse weather conditions 9.4 8.2 - 11.5	56 35 28	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	double diaphragm pump double diaphragm pump - double diaphragm pump			
HARW-5	1/4/2021 2/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021	36.7 37.1 38.7 35.9	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun	ping not completed due i 0.31 0.04 - 0.00 ping not completed due i	5.0 to adverse weather conditions 9.4 8.2 - 11.5 to adverse weather conditions	56 35 28 35	DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	double diaphragm pump double diaphragm pump - double diaphragm pump			
HARW-5	1/4/2021 2/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021 8/16/2021	36.7 37.1 38.7 35.9	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5	ping not completed due 0.31 0.04 - 0.00 ping not completed due 0.00	5.0 to adverse weather conditions 9.4 8.2 - 11.5 to adverse weather conditions 11.7	56 35 28 35	- DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴	double diaphragm pump double diaphragm pump - double diaphragm pump - double diaphragm pump - double diaphragm pump			
HARW-5	1/4/2021 2/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021 8/16/2021 9/7/2021	36.7 37.1 38.7 35.9 35.8 38.8	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5	ping not completed due to 0.31 0.04 - 0.00 ping not completed due to 0.00 - 0.00	5.0 to adverse weather conditions 9.4 8.2 - 11.5 to adverse weather conditions 11.7 -	56 35 28 35 70 22	- DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴ DMT ⁴	double diaphragm pump double diaphragm pump - double diaphragm pump			
HARW-Ś	1/4/2021 2/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021 8/16/2021 9/7/2021 10/11/2021	36.7 37.1 38.7 35.9 35.8 36.8 36.5	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8	ping not completed due to 0.31	5.0 to adverse weather conditions 9.4 8.2 - 11.5 to adverse weather conditions 11.7 - 9.6	56 35 28 35 70 22 34	- DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	double diaphragm pump double diaphragm pump - double diaphragm pump - double diaphragm pump - double diaphragm pump - double diaphragm pump			
HARW-Ś	1/4/2021 2/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021 8/16/2021 9/7/2021 10/11/2021	36.7 37.1 38.7 35.9 35.8 38.8 36.5 38.3	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8 2.0 2.0	ping not completed due 0.31 0.04 - 0.00 ping not completed due 0.00 - 0.17 0.00 0.08	5.0 to adverse weather conditions 9.4 8.2 - 11.5 to adverse weather conditions 11.7 - 9.6 5.2	56 35 28 35 70 22 34 21	- DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴ - DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump			
HARW-Ś	1/4/2021 2/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 12/6/2021	36.7 37.1 38.7 35.9 35.8 38.8 36.5 38.3	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8 2.0 2.0	ping not completed due 0.31 0.04 - 0.00 ping not completed due 0.00 - 0.17 0.00 0.08	5.0 to adverse weather conditions 9.4 8.2 - 1.5 to adverse weather conditions 11.7 - 9.6 5.2 5.0	56 35 28 35 70 22 34 21	- DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴ - DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump			
HARW-Ś	1/4/2021 2/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 12/6/2021 1/3/2022	36.7 37.1 38.7 35.9 35.8 36.8 36.5 36.5 38.3 38.3	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8 2.0 DNAPL p	ping not completed due to 0.31 0.04	5.0 to adverse weather conditions 9.4 8.2 - 11.5 to adverse weather conditions 11.7 - 9.6 5.2 5.0 te to COVID-19 restrictions	56 35 28 35 70 22 34 21 35	- DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴ DM	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump			
HARW-5	1/4/2021 2/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 11/1/2021 11/3/2022 2/8/2022	36.7 37.1 38.7 35.9 35.8 38.8 36.5 38.3 38.3	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8 2.0 DNAPL p	ping not completed due to 0.31	5.0 to adverse weather conditions 9.4 8.2 - 11.5 to adverse weather conditions 11.7 - 9.6 5.2 5.0 te to COVID-19 restrictions 7.4	56 35 28 35 70 22 34 21 35	- DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴ - DMT ⁴	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump			
HARW-5	1/4/2021 2/11/2021 3/11/2021 4/5/2021 5/3/2021 6/7/2021 8/16/2021 9/7/2021 10/11/2021 11/11/2021 11/11/2021 12/6/2021 1/3/2022 2/8/2022 3/7/2022	36.7 37.1 38.7 35.9 35.8 38.8 36.5 38.3 36.5 38.3 38.3	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8 2.0 2.0 DNAPL p	ping not completed due i 0.31 0.04 - 0.00 ping not completed due i 0.00 - 0.17 0.00 0.08 pumping not completed due i 0.01 - 0.17	5.0 to adverse weather conditions 9.4 8.2 - 11.5 to adverse weather conditions 11.7 - 9.6 5.2 5.0 te to COVID-19 restrictions 7.4	56 35 28 35 70 22 34 21 35	- DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴ - DMT ⁴	double diaphragm pump double diaphragm pump - double diaphragm pump - double diaphragm pump - double diaphragm pump			
HARW-5	1/4/2021 2/1/2021 3/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 11/3/2022 2/8/2022 3/7/2022 4/4/2022 5/2/2022	36.7 37.1 38.7 35.9 35.8 36.8 36.5 38.3 38.3 37.3 38.6 36.6 36.8	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8 2.0 DNAPL g DNAPL g 3.0 1.8 3.5 1.6	ping not completed due 0.31 0.04 0.00 ping not completed due 0.00 0.17 0.00 0.08 pumping not completed due 0.00 0.17 0.00 0.08	5.0 to adverse weather conditions 9.4 8.2 - 11.5 to adverse weather conditions 11.7 - 9.6 5.2 5.0 to to COVID-19 restrictions 7.4 - 8.9	56 35 28 35 70 22 34 21 35 64 27 28	- DMT ⁴ DMT	double diaphragm pump double diaphragm pump			
HARW-5	1/4/2021 2/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 11/3/2022 2/8/2022 3/7/2022 4/4/2022	36.7 37.1 38.7 35.9 35.8 38.8 36.5 38.3 38.3 37.3 38.6 36.6	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8 2.0 DNAPL pun 3.0 1.8 3.5 1.6 3.6	ping not completed due 1 0.31 0.04 0.00 ping not completed due 1 0.00 - 0.17 0.00 0.08 umping not completed du 0.017 - 0.017 - 0.017 - 0.017 - 0.017 - 0.017 - 0.017 - 0.017	5.0 to adverse weather conditions 9.4 8.2 - 11.5 to adverse weather conditions 11.7 - 9.6 5.2 5.0 te to COVID-19 restrictions 7.4 - 8.9 - 8.9	56 35 28 35 70 22 34 21 35 64 27	- DMT ⁴ DMT	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump			
HARW-5	1/4/2021 2/1/2021 3/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 11/1/2021 11/3/2022 2/8/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022	36.7 37.1 38.7 35.9 35.8 36.8 36.5 38.3 38.3 37.3 38.6 36.6 36.8	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8 2.0 DNAPL pun 3.0 1.8 3.5 1.6 3.6	ping not completed due 1 0.31 0.04 0.00 ping not completed due 1 0.00 - 0.17 0.00 0.08 umping not completed du 0.017 - 0.017 - 0.017 - 0.017 - 0.017 - 0.017 - 0.017 - 0.017	5.0 to adverse weather conditions 9.4 8.2 - 11.5 to adverse weather conditions 11.7 - 9.6 5.2 5.0 te to COVID-19 restrictions 7.4 - 8.9 -	56 35 28 35 70 22 34 21 35 64 27 28	- DMT ⁴ DMT	double diaphragm pump double diaphragm pump			
HARW-5	1/4/2021 2/1/2021 3/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 11/1/2021 12/6/2021 13/2022 2/8/2022 3/7/2022 4/4/2022 6/7/2022 7/1/2022 7/1/2022	36.7 37.1 38.7 35.9 35.8 38.8 36.5 38.3 38.3 37.3 38.6 36.8 38.7 36.7	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8 2.0 2.0 DNAPL p 3.0 1.8 3.5 1.6 3.6 DNAPL pun	ping not completed due 1 0.31 0.04 0.00 ping not completed due 1 0.00 - 0.17 0.00 0.08 pumping not completed due 1 0.00 0.17 - 0.17 - 0.08 - 0.17 - 0.08	5.0 to adverse weather conditions 9.4 8.2 - 11.5 to adverse weather conditions 11.7 - 9.6 5.2 5.0 to COVID-19 restrictions 7.4 - 8.9 - 8.9 to adverse weather conditions	56 35 28 35 70 22 34 21 35 64 27 28 28 36	- DMT 4 DMT	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump			
HARW-5	1/4/2021 2/1/2021 3/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 11/3/2022 2/8/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022 9/7/2022	36.7 37.1 38.7 35.9 35.8 36.8 36.5 38.3 38.3 37.3 38.6 36.8 36.7 36.7	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8 2.0 DNAPL gun 3.0 1.8 3.5 1.6 3.6 DNAPL pun 3.7 2.1	ping not completed due 1 0.31 0.04 0.00 ping not completed due 1 0.00 - 0.17 0.00 0.08 pumping not completed due 1 0.17 - 0.08 - 0.17 - 0.08 - 0.17 - 0.08 - 0.17 - 0.08 - 0.17 - 0.08 - 0.08 - 0.17 - 0.08 - 0.08	5.0 to adverse weather conditions 9.4 8.2 - 11.5 to adverse weather conditions 11.7 - 9.6 5.2 5.0 ue to COVID-19 restrictions 7.4 - 8.9 - 8.9 - 9.0 adverse weather conditions	56 35 28 35 70 22 34 21 35 64 27 28 28 28 36	- DMT ⁴ DMT ⁴ DMT ⁴ DMT ⁴ - DMT ⁴ - DMT ⁴	double diaphragm pump double diaphragm pump			
HARW-5	1/4/2021 2/11/2021 3/11/2021 3/12/2021 4/5/2021 5/3/2021 6/7/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 11/1/2021 11/3/2022 2/8/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 8/11/2022 8/11/2022 9/7/2022 10/3/2022	36.7 37.1 38.7 35.9 35.8 36.8 36.5 36.3 38.3 37.3 36.6 36.8 36.7 36.7	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8 2.0 DNAPL p 3.0 TNAPL p 3.6 DNAPL p 3.7 2.1 1.3	ping not completed due 1 0.31 0.04 0.00 ping not completed due 1 0.00 - 0.17 0.00 0.08 umping not completed du 0.017 - 0.017 - 0.08 - 0.17 - 0.08 - 0.08 - 0.17 - 0.08 - 0.08 - 0.17 - 0.08 - 0.17 - 0.08 - 0.17 - 0.08	5.0 to adverse weather conditions 9.4 8.2 - 11.5 to adverse weather conditions 11.7 - 9.6 5.2 5.0 to to COVID-19 restrictions - 8.9 - 8.9 to adverse weather conditions	56 35 28 35 70 22 34 21 35 64 27 28 28 28 36 55 37 26	- DMT 4 DMT	double diaphragm pump double diaphragm pump - double diaphragm pump - double diaphragm pump - double diaphragm pump - double diaphragm pump - double diaphragm pump - double diaphragm pump			
HARW-5	1/4/2021 2/1/2021 3/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 11/1/2021 11/1/2021 2/8/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022 9/7/2022 10/3/2022 11/8/2022	36.7 37.1 38.7 35.9 35.8 38.8 36.5 38.3 38.3 37.3 36.6 36.8 36.7 36.7	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8 2.0 2.0 DNAPL p 3.0 1.8 3.5 1.6 3.6 DNAPL pun 3.7 2.1 1.3 3.3	ping not completed due 1 0.31 0.04 0.00 ping not completed due 1 0.17 0.00 0.08 0.17 - 0.17 - 0.08 - 0.17 0.08 - 0.08 - 0.17 ping not completed due 1 0.17 - 0.08 - 0.17 - 0.08 - 0.17 - 0.08 - 0.17 - 0.08 - 0.17 - 0.08 - 0.17 - 0.08 - 0.17 - 0.08 - 0.17 - 0.08 - 0.17 - 0.08 - 0.08 - 0.08 - 0.08 - 0.08	5.0 to adverse weather conditions 9.4 8.2 - 11.5 to adverse weather conditions 11.7 - 9.6 5.2 5.0 to COVID-19 restrictions 7.4 - 8.9 - 8.9 - 8.9 to adverse weather conditions	56 35 28 35 70 22 34 21 35 64 27 28 28 28 36 55 37 26 36	- DMT 4	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump			
HARW-5	1/4/2021 2/1/2021 3/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 7/5/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 11/1/2021 12/6/2021 2/8/2022 2/8/2022 4/4/2022 5/2/2022 6/7/2022 8/1/2022 9/7/2022 10/3/2022 11/8/2022 11/8/2022 11/8/2022	36.7 37.1 38.7 35.9 35.8 38.8 36.5 38.3 38.3 37.3 38.6 36.8 38.7 36.7 36.6 38.2 39.0 37.1 37.5	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8 2.0 DNAPL p 3.0 1.8 3.5 1.6 3.6 DNAPL pun 3.7 2.1 1.3 3.3 2.8	ping not completed due 1 0.31 0.04 0.00 ping not completed due 1 0.07 0.00 - 0.17 0.00 0.08 pumping not completed du 0.17 - 0.08 - 0.17 - 0.08 - 0.17 ping not completed due 1 0.17 - 0.08 - 0.08 - 0.17 - 0.08 - 0.08 - 0.08 0.08 0.08	5.0 to adverse weather conditions 9.4 8.2	56 35 28 35 70 22 34 21 35 64 27 28 28 28 36 55 37 26 36 36 27	- DMT 4	double diaphragm pump double diaphragm pump			
HARW-5	1/4/2021 2/1/2021 3/1/2021 3/1/2021 4/5/2021 5/3/2021 6/7/2021 8/16/2021 9/7/2021 10/11/2021 11/1/2021 11/1/2021 11/1/2021 2/8/2022 3/7/2022 4/4/2022 5/2/2022 6/7/2022 7/4/2022 8/1/2022 9/7/2022 10/3/2022 11/8/2022	36.7 37.1 38.7 35.9 35.8 38.8 36.5 38.3 38.3 37.3 36.6 36.8 36.7 36.7	DNAPL pun 3.6 3.2 1.6 4.4 DNAPL pun 4.5 1.5 3.8 2.0 2.0 DNAPL p 3.0 1.8 3.5 1.6 3.6 DNAPL pun 3.7 2.1 1.3 3.3	ping not completed due 1 0.31 0.04 0.00 ping not completed due 1 0.17 0.00 0.08 0.17 - 0.17 - 0.08 - 0.17 0.08 - 0.08 - 0.17 ping not completed due 1 0.17 - 0.08 - 0.17 - 0.08 - 0.17 - 0.08 - 0.17 - 0.08 - 0.17 - 0.08 - 0.17 - 0.08 - 0.17 - 0.08 - 0.17 - 0.08 - 0.17 - 0.08 - 0.08 - 0.08 - 0.08 - 0.08	5.0 to adverse weather conditions 9.4 8.2 - 11.5 to adverse weather conditions 11.7 - 9.6 5.2 5.0 to COVID-19 restrictions 7.4 - 8.9 - 8.9 - 8.9 to adverse weather conditions	56 35 28 35 70 22 34 21 35 64 27 28 28 28 36 55 37 26 36	- DMT 4	double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump double diaphragm pump			

SOVEREIGN CONSULTING INC.
Page 4 of 6

	Date	Depth to Product (ft)	Product Apparent Height - Pre-pumping (ft)	Product Apparent Height - Post-pumping (ft)	Approximate Volume of Product Recovered (gallons) ³	Days Elapsed Between Measurement Readings	Measurement Tool Used	Recovery Procedure Used
HARW-6	Cumulative 7/19/2011 - 12/7/2020	-	-	-	0.0	-	-	
	1/4/2021	40.1	0.7	-	=	28	DMT ⁴	ı
	2/1/2021		DNAPL pun	nping not completed due	o adverse weather conditions		-	-
	3/1/2021	40.1	0.7	-	-	56	DMT ⁴	-
	4/5/2021	40.1	0.8	-	-	35	DMT ⁴	-
	5/3/2021	40.6	0.2	-	-	28	DMT ⁴	-
	6/7/2021	40.6	0.3	-	-	35	DMT ⁴	-
	7/5/2021			nping not completed due	o adverse weather conditions		-	-
	8/16/2021	40.3	0.5	-	-	70	DMT ⁴	-
	9/7/2021	40.5	0.3	-	-	22	DMT ⁴	-
	10/11/2021	40.3	0.5	-	-	34	DMT ⁴	-
	11/1/2021	40.2	0.6	-	-	21	DMT ⁴	-
	12/6/2021	40.3	0.5	-	-	35	DMT ⁴	-
	1/3/2022			pumping not completed du	ie to COVID-19 restrictions		- ,	-
	2/7/2022	40.2	0.6	-	-	63	DMT ⁴	-
	3/7/2022	40.2	0.6	-	-	28	DMT ⁴	-
	4/4/2022	40.1	0.7	-	-	28	DMT ⁴	-
	5/2/2022	40.1	0.7	-	-	28	DMT ⁴	-
	6/7/2022	40.6	0.3	-	-	36	DMT ⁴	-
	7/4/2022			nping not completed due	o adverse weather conditions		- ,	-
	8/1/2022	40.6	0.3	-	-	55	DMT ⁴	-
	9/6/2022	40.1	0.7	-	-	36	DMT ⁴	-
	10/3/2022	40.0	0.8	-	-	27	DMT ⁴	-
	11/7/2022	40.2	0.6	-	-	35	DMT ⁴	-
	12/5/2022	40.7	0.1	-	-	28	DMT ⁴	-
	1/3/2023	40.6	0.2	-	-	29	DMT ⁴	-
		TOTAL VOLUME REG	COVERED TO DATE FRO	 DM HARW-6 (GALLONS)	0.0			
HARW-7	Cumulative 7/18/2011 - 12/7/2020	-	-	-	582.0	-	- DAT4	-
	1/4/2021 2/1/2021	40.8	1.2	aning not completed due	o adverse weather conditions	28	DMT ⁴	<u> </u>
	3/1/2021	40.0	2.0	0.0	5.2	56	DMT ⁴	double diaphragm pump
	4/5/2021	41.3	0.8	-	5.2	35	DMT ⁴	- double diapriragin pump
	5/3/2021	41.3	0.8	-	-	28	DMT ⁴	-
				-		35	DMT ⁴	
	6/7/2021 7/5/2021	40.8	1.3		- conditions	35	- -	-
	8/16/2021	39.5	2.5	0.2	6.1	70	DMT ⁴	double diaphragm pump
	9/7/2021	41.8	0.3	- 0.2	-	22	DMT ⁴	- double diapriragin pump
	9/7/2021	41.8	0.3				DMT ⁴	
	10/11/2021	41.5	0.5	-	-	34 21	DMT ⁴	-
		41.1		-	+	21 35	DMT ⁴	
	12/6/2021 1/3/2022	40.0	1.4		e to COVID-19 restrictions	33	- -	-
	2/7/2022	40.2	1.8	Jamping not completed at	I I I I I I I I I I I I I I I I I I I	63	DMT ⁴	-
	3/7/2022	39.6	2.4	0.1	6.1	28	DMT ⁴	double disperses nur-
				- 0.1	1		DMT ⁴	double diaphragm pump
	4/4/2022 5/2/2022	41.7 41.4	0.3	-	-	28 28	DMT ⁴	-
				-	-		DMT ⁴	-
	6/7/2022 7/4/2022	40.9	1.1		o adverse weather conditions	36	DMI.	-
		40.0	2.0	0.0	5.2	55	DMT ⁴	double diaphragm pump
		40.0	0.3	0.0	5.2	36	DMT ⁴	double diaphragm pump -
	8/1/2022	41.8		-		36 27	DMT ⁴	
	9/6/2022		0.0		-		DIVIT	•
	9/6/2022 10/3/2022	41.3	0.8		i	25	DMT ⁴	
	9/6/2022 10/3/2022 11/7/2022	41.3 41.1	0.9	-	-	35	DMT ⁴	-
	9/6/2022 10/3/2022 11/7/2022 12/5/2022	41.3 41.1 40.9	0.9	-	-	28	DMT ⁴	
	9/6/2022 10/3/2022 11/7/2022	41.3 41.1	0.9	-	1			- - double diaphragm pump

SOVEREIGN CONSULTING INC.
Page 5 of 6

	Date	Depth to Product (ft)	Product Apparent Height - Pre-pumping (ft)	Product Apparent Height - Post-pumping (ft)	Approximate Volume of Product Recovered (gallons) ³	Days Elapsed Between Measurement Readings	Measurement Tool Used	Recovery Procedure Used
HARW-8	Cumulative 7/19/2011 - 12/7/2020	-	-	-	36.1	-	-	-
	1/4/2021	41.8	1.2	-	-	28	DMT ⁴	-
	2/1/2021		DNAPL pun	-	-			
	3/1/2021	41.8	1.3	-	-	56	DMT ⁴	-
	4/5/2021	41.4	1.6	-	-	35	DMT ⁴	-
	5/3/2021	41.0	2.0	0.0	5.2	28	DMT ⁴	double diaphragm pump
	6/7/2021	42.8	0.2	-	-	35	DMT ⁴	-
	7/5/2021		DNAPL pun	ping not completed due	to adverse weather conditions		-	-
	8/16/2021	42.5	0.5	-	-	70	DMT ⁴	-
	9/7/2021	42.5	0.5	-	-	22	DMT ⁴	-
	10/11/2021	42.3	0.7	-	-	34	DMT ⁴	-
	11/1/2021	42.2	0.8	-	-	21	DMT ⁴	-
	12/6/2021	42.2	0.8	-	-	35	DMT ⁴	-
	1/3/2022		DNAPL p	-	-			
	2/7/2022	42.2	0.8	-	-	63	DMT ⁴	-
	3/7/2022	41.9	1.1	-	-	28	DMT ⁴	-
	4/4/2022	41.8	1.3	-	-	28	DMT ⁴	-
	5/2/2022	41.7	1.3	-	-	28	DMT ⁴	-
	6/7/2022	41.7	1.3	-	-	36	DMT ⁴	-
	7/4/2022		DNAPL pun	ping not completed due	to adverse weather conditions		-	-
	8/1/2022	41.5	1.5	-	-	55	DMT ⁴	-
	9/6/2022	41.4	1.6	-	-	36	DMT ⁴	-
	10/3/2022	41.3	1.8	-	-	27	DMT ⁴	-
	11/8/2022	41.0	2.0	0.5	3.9	36	DMT ⁴	double diaphragm pump
	12/5/2022	42.4	0.6	-	-	27	DMT ⁴	-
	1/3/2023	42.8	0.3	-	-	29	DMT ⁴	-
		TOTAL VOLUME REC	COVERED TO DATE FRO	OM HARW-8 (GALLONS)	45.2			

TOTAL VOLUME RECOVERED TO DATE FROM ALL WELLS (GALLONS)

3178.6

Notes: MW-12

Depth to Top of Screen: 33 ft Depth to Bottom: 36 ft

HARW-1 Depth to Top of Screen: 24 ft

Depth to Bottom: 42 ft

HARW-5 Angle from Vertical: 23.5°

Vertical Depth to Top of Screen: 27 ft Vertical Depth to Bottom: 40.3 ft

HAOW-12A

Depth to Top of Screen: 28.6 ft Depth to Bottom: 43.6 ft

HARW-2

HARW-6

Depth to Top of Screen: 26 ft

Depth to Bottom: 40 ft

Angle from Vertical: 16.5° Vertical Depth to Top of Screen: 25.4 ft

Vertical Depth to Bottom: 39 ft

HARW-7

HARW-3

Angle from Vertical: 14° Depth to Top of Screen: 27.5 ft Vertical Depth to Top of Screen: 26.7 ft Depth to Bottom: 42 ft

Vertical Depth to Bottom: 40.8 ft

HARW-4

Angle from Vertical: 24.5° Vertical Depth to Top of Screen: 28.7 ft

Vertical Depth to Bottom: 41 ft

HARW-8

Depth to Top of Screen: 28.5 ft Depth to Bottom: 43 ft

For historical reference to past DNAPL measurement events prior to January 2017, please refer to the January 2018 monthly report submitted to NYSDEC on 5 February 2018.

DMT = DNAPL Measurement Tool, consisting of a copper tubing handle, a spacer section to prevent the probe from contacting the sides of the well riser, and an all-thread rod probe to extend into the DNAPL.

SOVEREIGN CONSULTING INC. Page 6 of 6

¹ Reserved

² Reserved

³ Volume of product recovered by downwell pump is estimated by approximating the volume discharged to the drum and additional product in tubing and on pump.

Volume of product recovered by bailer is estimated using the bailer volume and number of times bailed.

Volume of product recovered by double diaphragm and positive displacement piston pumps are estimated by approximating the volume discharged to the drum or by using the pre- and post-pumping apparent height of product and the well dimensions (8" diameter well).

⁴ All depth and thickness values for HARW-3, HARW-4 HARW-5 and HARW-6 are provided as vertical equivalents of the field measurements based on the angle of the installed well.