

January 16, 2024

Dale Myers  
Washington State Department of Ecology  
Northwest Regional Office  
15700 Dayton Avenue N  
Shoreline, Washington 98133-9716  
*Sent via email*

Re: Quarterly Progress Report: Fourth Quarter 2023  
Carson Cleaners Site, Cleanup Site ID: 14878  
Washington State Department of Ecology Agreed Order No. DE 19805

Dear Mr. Myers:

This Quarterly Progress Report is submitted on behalf of Tahn Associates, LLC, and summarizes the activities performed from October 1 through December 31, 2023, as required by the Washington State Department of Ecology (Ecology) Agreed Order (AO) No. DE 19805. This Quarterly Progress Report has been prepared in accordance with the requirements of the AO, Section VII.F, and describes the following:

1. Actions that have been taken to comply with the AO
2. Sampling and testing reports and other data reports received by the Potentially Liable Party
3. Deviations from approved work plans
4. Contacts with representatives of the local community; public interest groups; the press; and federal, state, and tribal governments
5. Problems or anticipated problems in meeting the schedule or objectives set forth in the scope of work and work plans
6. Solutions developed and implemented or planned to address any actual or anticipated problems or delays
7. Changes in key personnel
8. Work planned for the next reporting period

## **Actions During Fourth Quarter 2023**

### *Actions Performed*

- Implementation of the Remedial Investigation Work Plan (RIWP) at the Carson Cleaners Site (Figure 1) included the following:
  - Investigation Derived Waste, including monitoring well purge water, was transported offsite for disposal at the Chemical Waste Management facility in Arlington, Oregon, on September 29, 2023.

- In accordance with the approved RIWP, quarterly monitoring ceased with the Third Quarter 2023 monitoring event. No additional monitoring was conducted during the Fourth Quarter 2023.

## Sampling and Testing Reports

This report includes the monitoring results from the Third Quarter 2023 monitoring event. From August 8 through 9, 2023, the Third Quarter of groundwater monitoring was completed, including sampling of the newly installed monitoring wells and existing monitoring wells associated with neighboring properties (Figure 2). On August 8, 2023, the Third Quarter 2023 indoor air, subslab vapor, and ambient air monitoring was conducted (Figure 3). Groundwater potentiometric surface contour figures were developed based on the groundwater elevations measured during Third Quarter 2023 (Figure 4). A groundwater elevation summary is provided in Table 1. The analytical results are included in Tables 2 through 4, respectively. Laboratory analytical reports are included in Attachment 1, and data validation reports are included in Attachment 2. A summary of the validated data is as follows:

- Groundwater monitoring analytical results (Table 2) indicated the following:
  - Tetrachloroethene (PCE) concentrations exceeded the Model Toxics Control Act (MTCA) Method B non-cancer screening level (48 micrograms per liter [ $\mu\text{g/L}$ ]) at four monitoring well locations (CC-MW-01, BP-MW27, MW-20, and MW-28). PCE concentrations exceeded the MTCA Method B cancer screening level (21  $\mu\text{g/L}$ ) but was less than the MTCA Method B non-cancer screening level at two monitoring well location (BP-MW28 and BP-MW-8). PCE concentrations exceeded the MTCA Method A screening level (5  $\mu\text{g/L}$ ) but was less than the MTCA Method B cancer screening level at one monitoring well location (MW-25).
  - Trichloroethene (TCE) concentrations exceeded the MTCA Method A screening level (5  $\mu\text{g/L}$ ) at seven monitoring well locations (CC-MW-01, MW-20, MW-22, MW-23, MW-25, MW-27, and MW-28).
  - Vinyl chloride concentrations exceeded the MTCA Method B noncancer screening level (24  $\mu\text{g/L}$ ) at one monitoring well location (MW-25). Vinyl chloride concentrations exceeded the MTCA Method A screening level (0.2  $\mu\text{g/L}$ ) but was less than the MTCA Method B noncancer screening level at four monitoring well locations (MW-22, MW-23, MW-27, and MW-28).
  - Cis-1,2-dichloroethene concentrations exceeded the MTCA Method B noncancer screening level (16  $\mu\text{g/L}$ ) at six monitoring well locations (CC-MW-01, MW-22, MW-23, MW-25, MW-27, and MW-28).
  - Trans-1,2-dichloroethene was detected in seven monitoring well locations but concentrations did not exceed the MTCA Method B Noncancer screening level (160  $\mu\text{g/L}$ ).

- Indoor and ambient air monitoring analytical results (Table 3) indicated the following:
  - PCE was detected at one location, CC-IA-03B (Carson Cleaners) in exceedance of MTCA Method B noncancer screening level but below MTCA Method B cancer screening level.
  - No other target analytes were detected in any of the indoor or ambient air locations during Third Quarter 2023.
- Subslab vapor monitoring analytical results (Table 4) indicated the following:
  - PCE and TCE were detected one location, CC-SS-03B (Carson Cleaners).
  - No other target analytes were detected in any of the subslab vapor monitoring locations during Third Quarter 2023.

Interpolated chlorinated volatile organic compound groundwater analytical results are depicted in Figures 5 through 9. As additional data are available to determine optimized interpolation parameters that best reflect the conceptual site model, the figures will be further revised.

### **Deviations from Approved Work Plans**

There were no deviations from approved work plans.

### **Contacts with Local, State, Federal, or Tribal Representatives**

- A call was held with Ecology on October 31, 2023, to discuss the data gathered to date and the interpretation of the data, as well as comments received from neighboring sites.

### **Summary of Problems**

#### *Problems Encountered*

There were no problems encountered during this reporting period.

### **Changes in Key Personnel**

There were no changes in Key Personnel from the previous reporting period.

### **First Quarter 2024 Planned Work**

- Implement the RIWP, including the following:
  - Discuss monitoring results and data received from neighboring sites to date with Ecology and determine the next steps.
- Anchor QEA, LLC, will share validated data with the neighboring Former Chevron Station Site to begin evaluation of the extent of comingled chlorinated solvent and hydrocarbon plumes from the respective sites.

If you have any questions about the Quarterly Progress Report, please call me at (206) 903-3303 or (206) 462-9572.

Best regards,

A handwritten signature in black ink, appearing to read 'Halah Voges', with a long horizontal flourish extending to the right.

Halah Voges, PE  
Principal Engineer, Anchor QEA, LLC


cc: Nathan Soccorsy and Gavin Casson, Anchor QEA, LLC

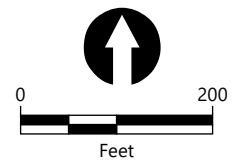
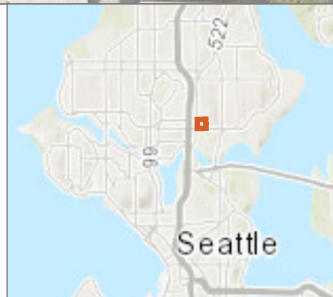
# Figures

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**LEGEND:**

 Former Carson Cleaners Facility



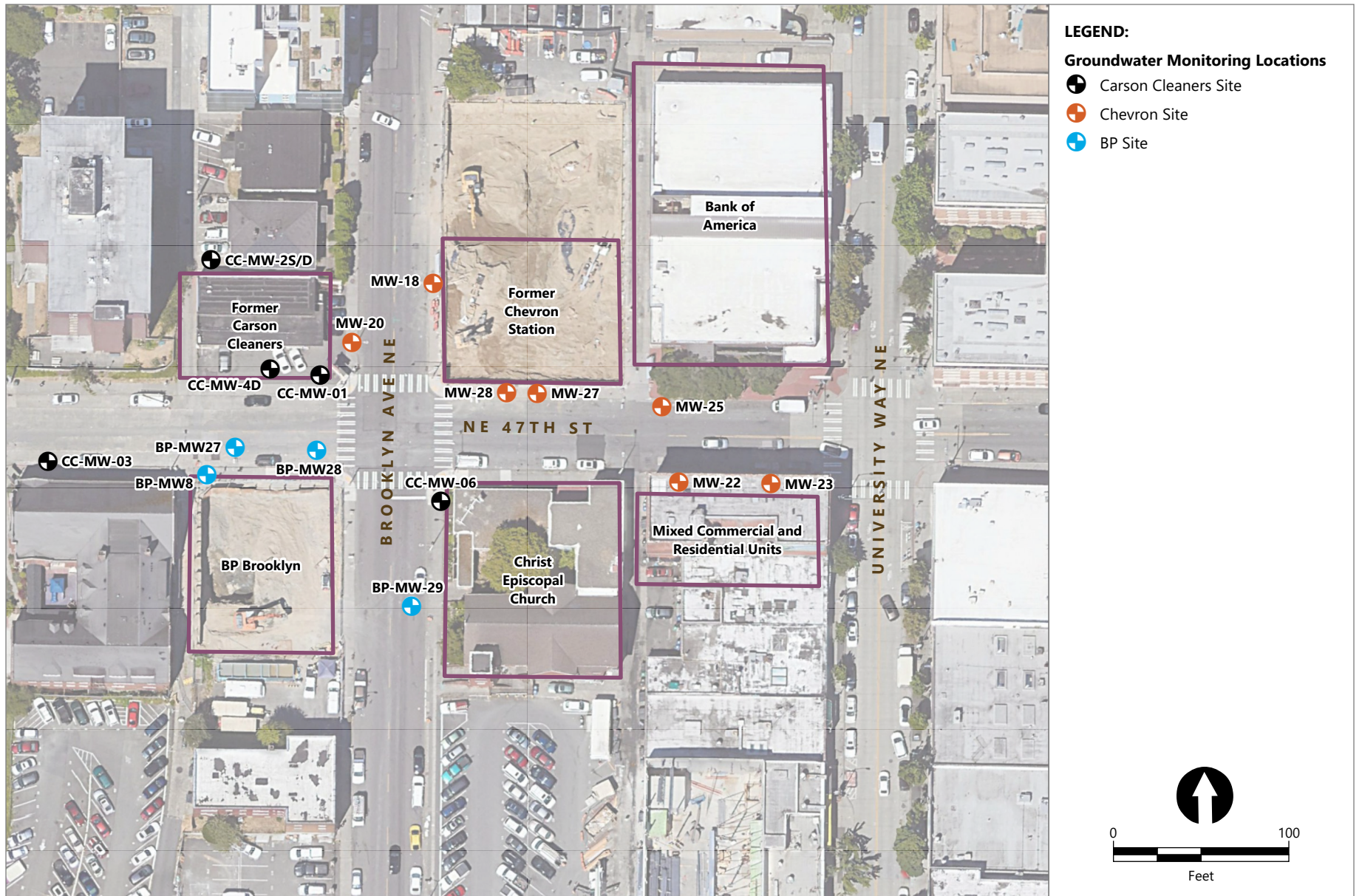
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**Figure 1**  
**Vicinity Map**

Quarterly Progress Report: Fourth Quarter 2023  
 Carson Cleaners Site



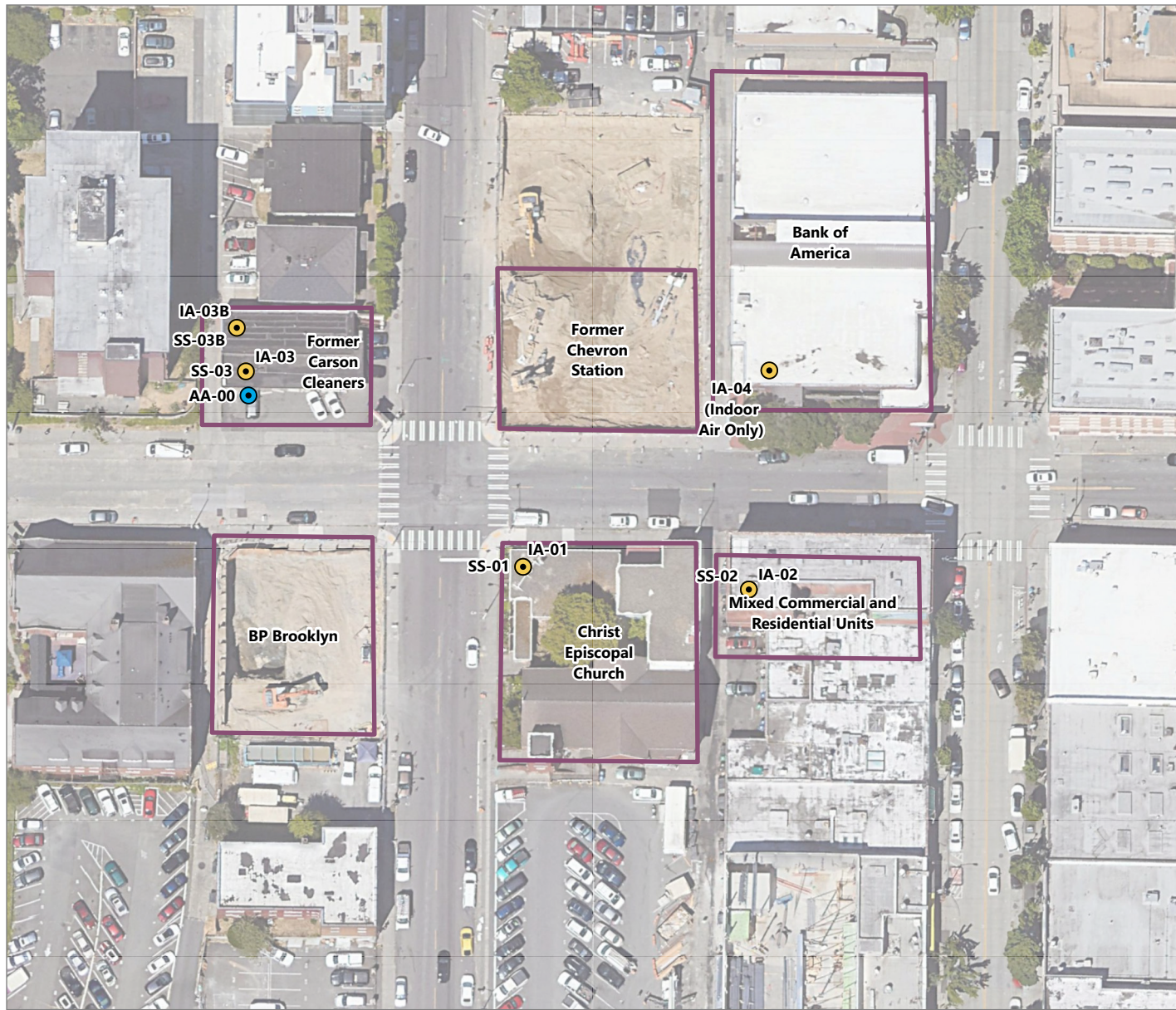


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**Figure 2**  
**Groundwater Sample Locations**  
 Quarterly Progress Report: Fourth Quarter 2023  
 Carson Cleaners Site



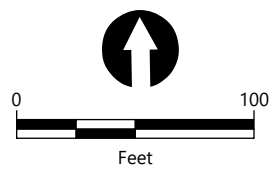


**LEGEND:**

**Vapor Sample Locations:**

- Ambient Air Sample
- Interior Sample (indoor air/subslab location)

**NOTE:**  
 1. Subslab sample location SS-03 was relocated in First Quarter 2023 to SS-03B.

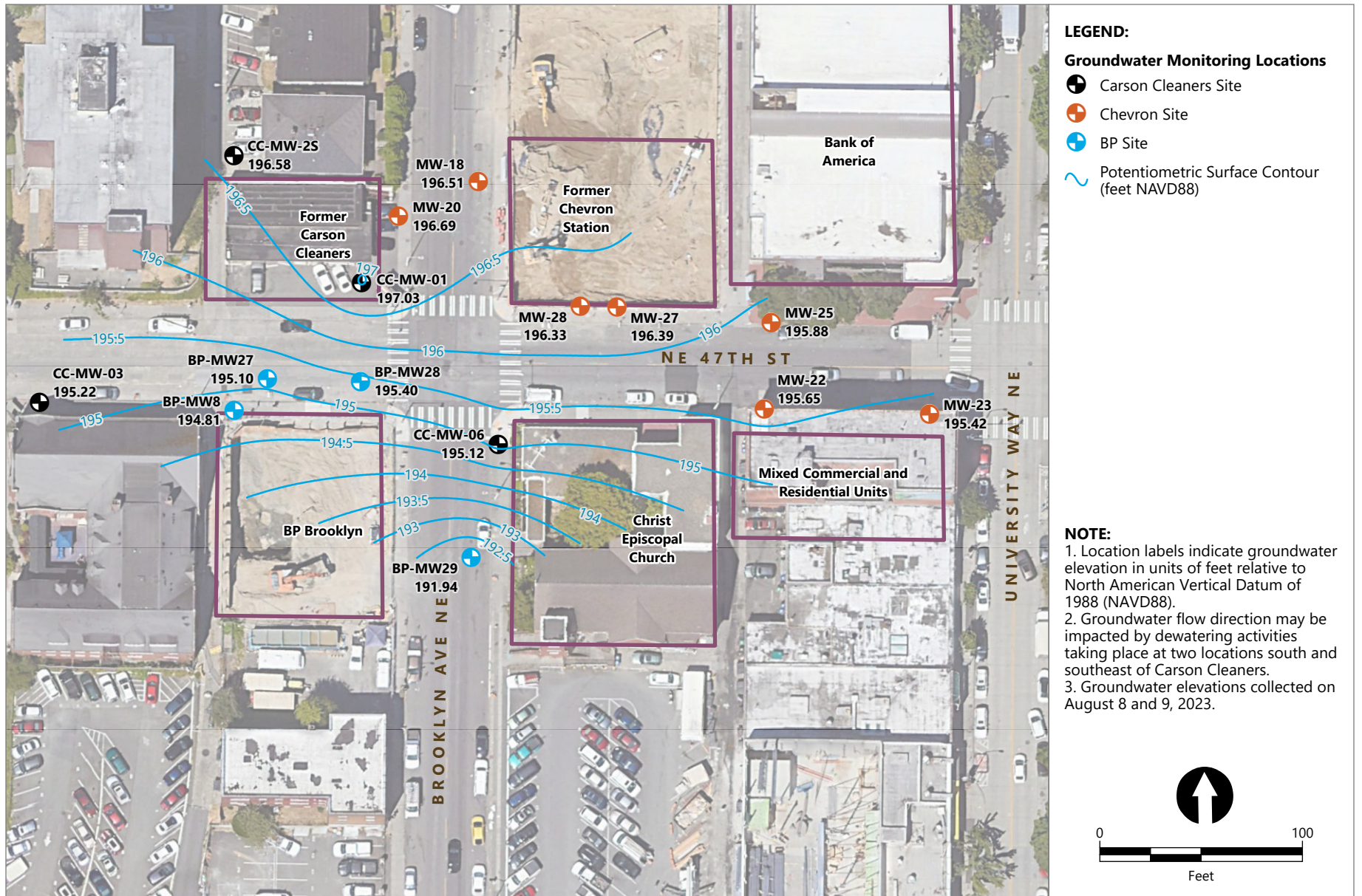


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**Figure 3**  
**Vapor Monitoring Locations**  
 Quarterly Progress Report: Fourth Quarter 2023  
 Carson Cleaners Site



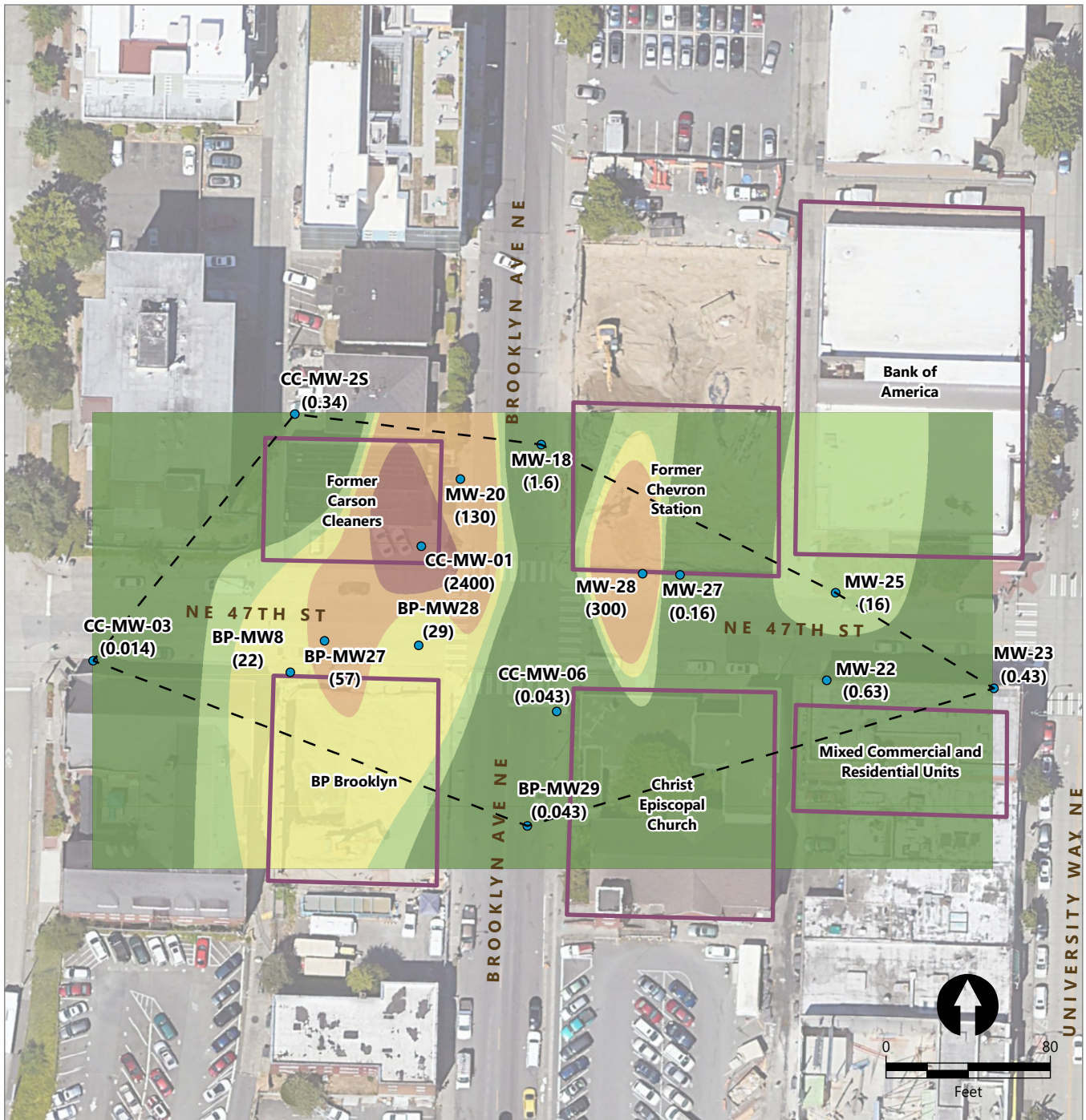


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**Figure 4**  
**Potentiometric Surface Map**  
 Quarterly Progress Report: Fourth Quarter 2023  
 Carson Cleaners Site





**LEGEND:**

- Approximate Site Extent
- Monitoring Well
- Extent of Known Data

**Interpolated PCE Concentrations (µg/L)**

- < 5
- 6 - 21
- 22 - 48
- 49 - 500
- 501 - 2,800

**NOTE:**

1. Concentrations from third quarter 2023 sampling event
2. MTCA Method A screening level for PCE is 5 µg/L
3. MTCA Method B Noncancer screening level for PCE is 48 µg/L
4. MTCA Method B Cancer screening level for PCE is 21 µg/L
5. Color shading is intended only for visual purposes and is based on the Inverse Distance Weighted data model. Color shading inside the dashed line is interpolated while color shading outside the dashed line is extrapolated based on limited data points.

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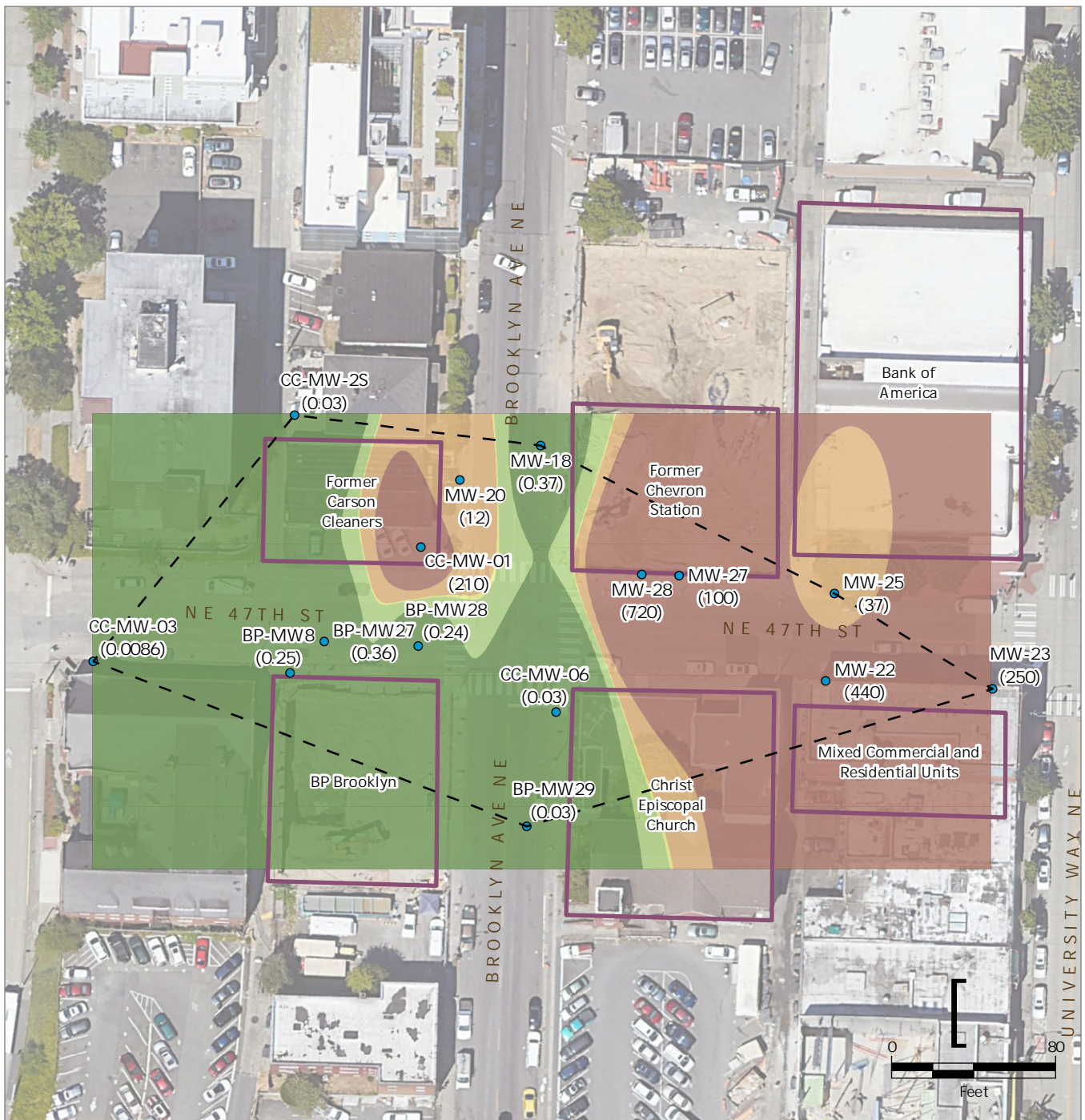
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**Figure 5**  
**Tetrachloroethene (PCE) Groundwater Isoconcentration**

Quarterly Progress Report: Fourth Quarter 2023  
Carson Cleaners Site





**LEGEND:**

- |                         |                                    |
|-------------------------|------------------------------------|
| Approximate Site Extent | Interpolated Concentrations (ug/L) |
| Monitoring Well         | 0 - 0.5                            |
| Extent of Known Data    | 0.5 - 4                            |
|                         | 4 - 5                              |
|                         | 5 - 50                             |
|                         | 50 - 720                           |

**NOTE:**

1. Concentrations from third quarter 2023 sampling event
2. MTCA Method A screening level for TCE is 5 µg/L
3. MTCA Method B Noncancer screening level for TCE is 4 µg/L
4. MTCA Method B Cancer screening level for TCE is 0.54 µg/L
5. Color shading is intended only for visual purposes and is based on the Inverse Distance Weighted data model. Color shading inside the dashed line is interpolated while color shading outside the dashed line is extrapolated based on limited data points.

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Figure 6  
Trichloroethene (TCE) Groundwater Isoconcentration  
Quarterly Progress Report: Fourth Quarter 2023  
Carson Cleaners Site





**LEGEND:**

Approximate Site Extent	Interpolated Concentrations (µg/L)
Monitoring Well	< 0.029
Extent of Known Data	0.03 - 0.20
	0.21 - 1
	1.1 - 10
	10.1 - 63

**NOTE:**

1. Concentrations from third quarter 2023 sampling event
2. MTCA Method A screening level for Vinyl chloride is 0.2 µg/L
3. MTCA Method B Noncancer screening level for Vinyl chloride is 24 µg/L
4. MTCA Method B Cancer screening level for Vinyl chloride is 0.029 µg/L
5. Color shading is intended only for visual purposes and is based on the Inverse Distance Weighted data model. Color shading inside the dashed line is interpolated while color shading outside the dashed line is extrapolated based on limited data points.

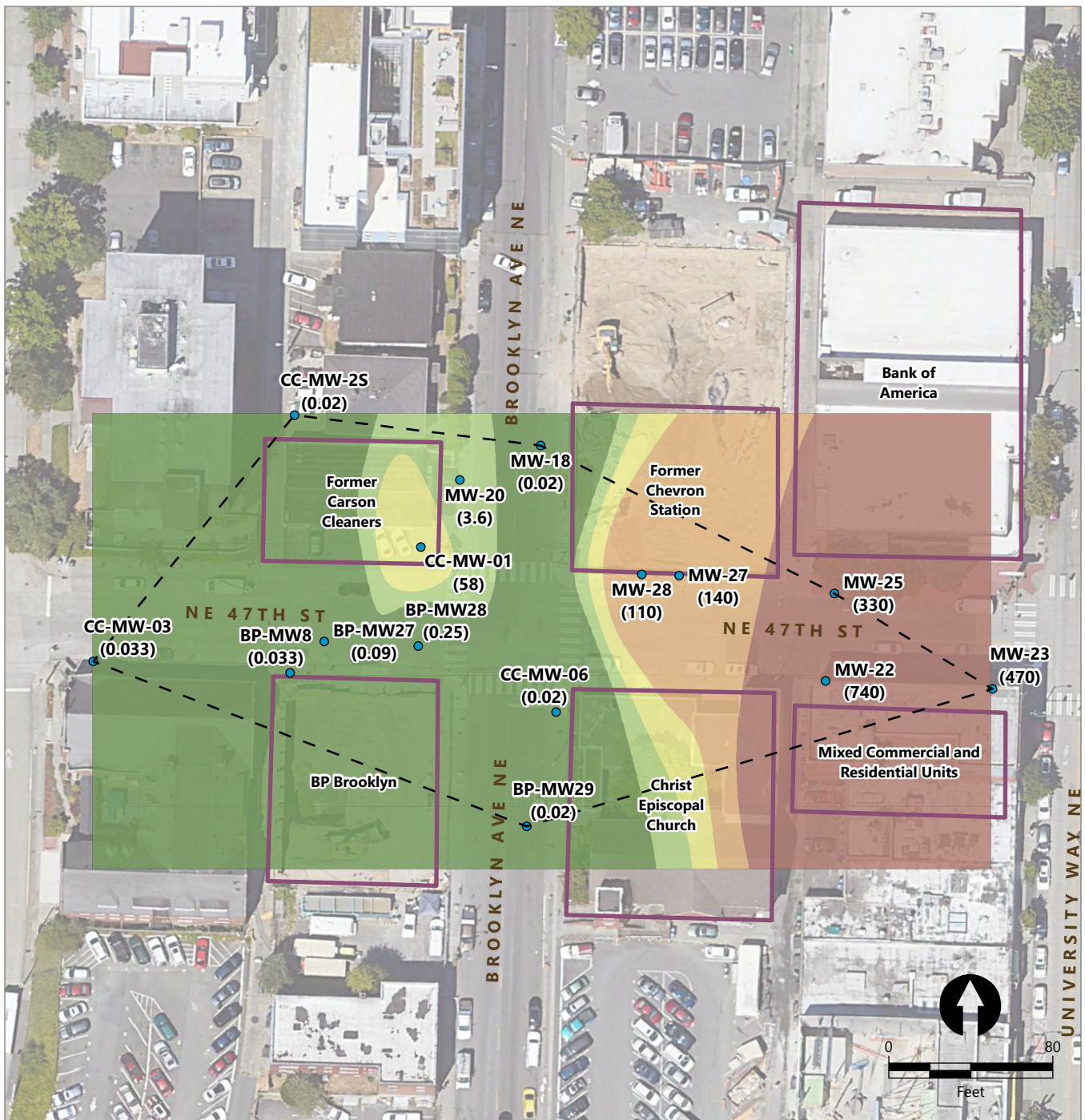
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Figure 7  
 Vinyl Chloride Groundwater Isoconcentration  
 Quarterly Progress Report: Fourth Quarter 2023  
 Carson Cleaners Site





**LEGEND:**

- Approximate Site Extent
- Monitoring Well
- Extent of Known Data

**Interpolated Concentrations (µg/L)**

- < 1
- 1 - 16
- 16 - 80
- 80 - 300
- 300 - 2,800

**NOTE:**

1. Concentrations from third quarter 2023 sampling event
2. MTCA Method B Noncancer screening level for Cis-1,2-dichloroethene is 16 µg/L
3. Color shading is intended only for visual purposes and is based on the Inverse Distance Weighted data model. Color shading inside the dashed line is interpolated while color shading outside the dashed line is extrapolated based on limited data points.

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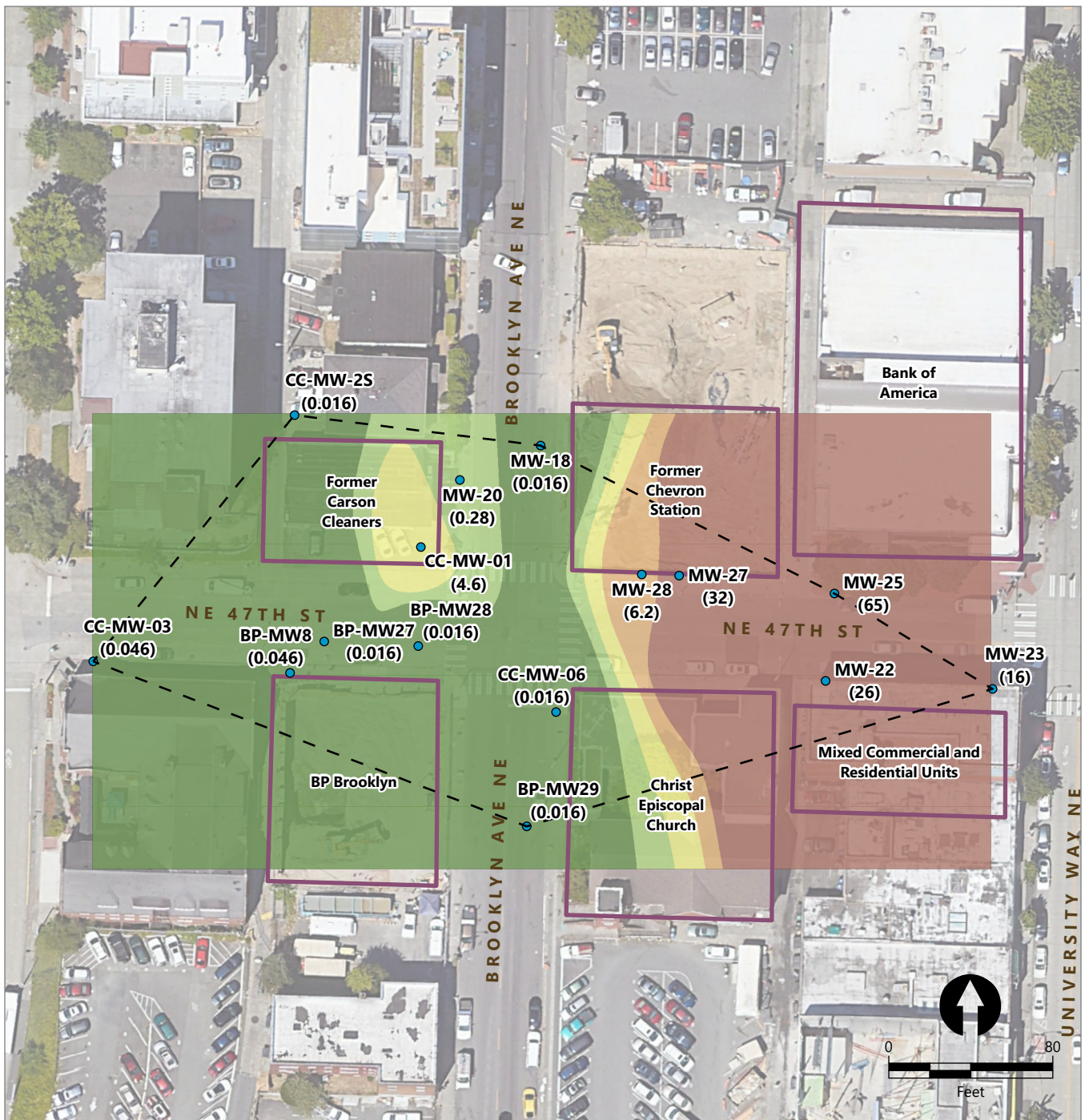
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**Figure 8**  
**Cis-1,2-dichloroethene Groundwater Isoconcentration**

Quarterly Progress Report: Fourth Quarter 2023  
Carson Cleaners Site





**LEGEND:**

- Approximate Site Extent
- Monitoring Well
- Extent of Known Data

**Interpolated Concentrations (µg/L)**

- 0.0 - 0.1
- 0.1 - 1.0
- 1.0 - 5.0
- 5.0 - 10.0
- 10.0 - 100.0

**NOTE:**

1. Concentrations from third quarter 2023 sampling event
2. MTCA Method B Noncancer screening level for trans-1,2-dichloroethene is 160 µg/L
3. Color shading is intended only for visual purposes and is based on the Inverse Distance Weighted data model. Color shading inside the dashed line is interpolated while color shading outside the dashed line is extrapolated based on limited data points.

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**Figure 9**  
**Trans- 1,2-dichloroethene Groundwater Isoconcentration**

Quarterly Progress Report: Fourth Quarter 2023  
Carson Cleaners Site



# Tables

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**Table 1**  
**Groundwater Elevation Summary**

Site	Well ID	Deep/Shallow Well	Date	TOC Elevation (NAV88/18 )	Measured Depth to GW (feet BTOC)	Groundwater Elevation (NAV88/18)	Measured Total Well Depth (feet BTOC)
Carson Cleaners	CC-MW-01	Shallow	12/5/2022	215.83	19.21	196.62	29.20
			2/21/2023		18.43	197.40	29.23
			6/13/2023		18.70	197.13	29.23
			8/8/2023		18.80	197.03	29.23
Carson Cleaners	CC-MW-2S	Shallow	12/5/2022	223.13	26.71	196.42	35.27
			2/22/2023		25.83	197.30	35.28
			6/13/2023		26.18	196.95	35.25
			8/9/2023		26.55	196.58	35.40
Carson Cleaners	CC-MW-2D	Deep	12/5/2022	222.94	69.10	153.84	84.50
			2/22/2023		68.75	154.19	84.51
			6/13/2023		68.88	154.06	84.51
			8/9/2023		69.05	153.89	84.48
Carson Cleaners	CC-MW-03	Shallow	12/5/2022	212.77	17.76	195.01	29.69
			2/23/2023		17.04	195.73	29.69
			6/13/2023		16.77	196.00	29.64
			8/8/2023		17.55	195.22	29.72
Carson Cleaners	CC-MW-4D	Deep	12/5/2022	215.31	62.37	152.94	70.80
			2/23/2023		62.25	153.06	70.80
			6/14/2023		62.25	153.06	70.84
			8/8/2023		52.32	162.99	70.71
Carson Cleaners	CC-MW-06	Shallow	12/5/2022	214.92	19.92	195.00	29.42
			2/23/2023		19.84	195.08	29.42
			6/12/2023		19.66	195.26	29.40
			8/9/2023		19.80	195.12	29.53
Chevron Property	MW-18	Shallow	12/6/2022	216.08	19.53	196.55	24.45
			2/21/2023		18.93	197.15	24.45
			6/12/2023		19.30	196.78	24.40
			8/9/2023		19.57	196.51	24.42
Chevron Property	MW-20	Shallow	12/6/2022	216.01	19.46	196.55	27.61
			2/21/2023		18.74	197.27	27.61
			6/12/2023		19.05	196.96	27.60
			8/9/2023		19.32	196.69	28.00
Chevron Property	MW-22	Shallow	12/6/2022	213.10	17.13	195.97	25.69
			2/21/2023		17.10	196.00	25.69
			6/12/2023		17.25	195.85	25.65
			8/9/2023		17.45	195.65	26.00

**Table 1**  
**Groundwater Elevation Summary**

Site	Well ID	Deep/Shallow Well	Date	TOC Elevation (NAV88/18 )	Measured Depth to GW (feet BTOC)	Groundwater Elevation (NAV88/18)	Measured Total Well Depth (feet BTOC)
Chevron Property	MW-23	Shallow	12/6/2022	211.89	16.19	195.70	24.77
			2/21/2023		16.10	195.79	24.77
			6/12/2023		16.23	195.66	24.75
			8/9/2023		16.47	195.42	24.75
Chevron Property	MW-25	Shallow	12/7/2022	212.98	16.86	196.12	29.91
			2/21/2023		16.71	196.27	29.91
			6/14/2023		16.90	196.08	29.90
			8/9/2023		17.10	195.88	29.90
Chevron Property	MW-27	Shallow	12/6/2022	214.49	18.11	196.38	23.43
			2/21/2023		17.61	196.88	23.43
			6/12/2023		17.88	196.61	23.40
			8/9/2023		18.10	196.39	23.40
Chevron Property	MW-28	Shallow	12/6/2022	214.54	18.15	196.39	25.07
			2/21/2023		17.61	196.93	25.07
			6/12/2023		17.91	196.63	25.05
			8/9/2023		18.21	196.33	25.20
BP Property	BP-MW8	Shallow	12/5/2022	214.17	21.00	193.17	24.29
			2/23/2023		20.23	193.94	24.29
			6/12/2023		19.38	194.79	24.24
			8/8/2023		19.36	194.81	24.30
BP Property	BP-MW27	Shallow	12/7/2022	213.82	20.70	193.12	23.92
			2/23/2023		19.50	194.32	23.92
			6/13/2023		18.56	195.26	23.90
			8/9/2023		18.72	195.10	23.91
BP Property	BP-MW28	Shallow	12/7/2022	214.63	20.54	194.09	24.12
			2/23/2023		19.92	194.71	24.12
			6/13/2023		19.11	195.52	24.11
			8/9/2023		19.23	195.40	24.12
BP Property	BP-MW29	Shallow	12/7/2023	213.10	NM	NM	NM
			2/23/2023		21.83	191.27	23.95
			6/14/2023		20.34	192.76	24.00
			8/9/2023		21.16	191.94	23.80

Notes:

Vertical Datum: NAV88/18

BTOC: below top of casing

ft: feet

GW: groundwater

NM : not measured

TOC: top of casing



**Table 2**  
**Groundwater Analytical Results**

					Volatile Organics (µg/L)					
					Chemical	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,2-Dichloroethene, cis-	1,2-Dichloroethene, trans-	Vinyl chloride
					Method	SW8260D	SW8260D	SW8260D	SW8260D	SW8260D
					MTCA Method A	5	5	--	--	0.2
					MTCA Method B Noncancer	48	4	16	160	24
					MTCA Method B Cancer	21	0.54	--	--	0.029
Property Location	Location ID	Matrix	Sample Type	Sample Date						
BP Property	BP-MW27	Groundwater	Normal	12/7/2022	18	0.2	0.015 U	0.021 U	0.024 J	
BP Property	BP-MW27	Groundwater	Normal	2/23/2023	48 J	0.31	0.074	0.021 U	0.04	
BP Property	BP-MW27	Groundwater	Normal	6/13/2023	67	0.19	0.05	0.016 U	0.024	
BP Property	BP-MW27	Groundwater	Normal	8/9/2023	57	0.36	0.09	0.016 U	0.025	
BP Property	BP-MW28	Groundwater	Normal	12/7/2022	19	0.3	0.13	0.021 U	0.017 UJ	
BP Property	BP-MW28	Groundwater	Normal	2/23/2023	25 J	0.29	0.16	0.021 U	0.017 U	
BP Property	BP-MW28	Groundwater	Normal	6/13/2023	28	0.28	0.19	0.016 U	0.012 U	
BP Property	BP-MW28	Groundwater	Normal	8/9/2023	29	0.24	0.25	0.016 U	0.012 U	
BP Property	BP-MW29	Groundwater	Normal	2/23/2023	0.023 UJ	0.032 U	0.015 U	0.021 U	0.017 U	
BP Property	BP-MW29	Groundwater	Normal	6/14/2023	0.043 U	0.030 U	0.020 U	0.016 U	0.012 U	
BP Property	BP-MW29	Groundwater	Normal	8/9/2023	0.043 U	0.030 U	0.020 U	0.016 U	0.012 U	
BP Property	BP-MW8	Groundwater	Normal	12/5/2022	20 J	0.29 J	0.016 UJ	0.035 UJ	0.018 UJ	
BP Property	BP-MW8	Groundwater	Normal	2/23/2023	18 J	0.24	0.015 U	0.021 U	0.017 U	
BP Property	BP-MW8	Groundwater	Normal	6/12/2023	16 J	0.23	0.033 U	0.046 U	0.015 U	
BP Property	BP-MW8	Groundwater	Normal	8/8/2023	22	0.25	0.033 U	0.046 U	0.015 U	
Carson Cleaners	CC-MW-01	Groundwater	Normal	12/5/2022	2800 J	190 J	43 J	3.5 UJ	1.8 UJ	
Carson Cleaners	CC-MW-01	Groundwater	Normal	2/21/2023	2100 J	200 J	1.6 U	3.5 U	1.8 U	
Carson Cleaners	CC-MW-01	Groundwater	Normal	6/13/2023	2300	210	59	1.6 U	1.2 U	
Carson Cleaners	CC-MW-01	Groundwater	Normal	8/8/2023	2400	210	58	4.6 U	1.5 U	
Carson Cleaners	CC-MW-03	Groundwater	Normal	12/5/2022	0.023 U	0.032 U	0.015 U	0.021 U	0.017 U	
Carson Cleaners	CC-MW-03	Groundwater	Normal	2/23/2023	0.063 J	0.032 U	0.015 U	0.021 U	0.017 U	
Carson Cleaners	CC-MW-03	Groundwater	Normal	6/13/2023	0.043 U	0.030 U	0.020 U	0.016 U	0.012 U	
Carson Cleaners	CC-MW-03	Groundwater	Normal	8/8/2023	0.014 U	0.0086 U	0.033 U	0.046 U	0.015 U	
Carson Cleaners	CC-MW-06	Groundwater	Normal	12/5/2022	0.023 U	0.032 U	0.015 U	0.021 U	0.017 U	
Carson Cleaners	CC-MW-06	Groundwater	Normal	2/23/2023	0.023 U	0.032 U	0.015 U	0.021 U	0.017 U	
Carson Cleaners	CC-MW-06	Groundwater	Normal	6/12/2023	0.014 U	0.0086 U	0.033 U	0.046 U	0.015 U	
Carson Cleaners	CC-MW-06	Groundwater	Normal	8/9/2023	0.043 U	0.030 U	0.020 U	0.016 U	0.012 U	
Carson Cleaners	CC-MW-2D	Groundwater	Normal	12/5/2022	6.2 J	0.15 J	0.016 UJ	0.035 UJ	0.018 UJ	
Carson Cleaners	CC-MW-2D	Groundwater	Normal	2/23/2023	1.9	0.06	0.016 U	0.035 U	0.018 U	
Carson Cleaners	CC-MW-2D	Groundwater	Normal	6/13/2023	2.1	0.082	0.020 U	0.016 U	0.012 U	
Carson Cleaners	CC-MW-2D	Groundwater	Normal	8/9/2023	3.8	0.13	0.020 U	0.016 U	0.012 U	

**Table 2**  
**Groundwater Analytical Results**

				Volatile Organics (µg/L)					
				Chemical	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,2-Dichloroethene, cis-	1,2-Dichloroethene, trans-	Vinyl chloride
				Method	SW8260D	SW8260D	SW8260D	SW8260D	SW8260D
				MTCA Method A	5	5	--	--	0.2
				MTCA Method B Noncancer	48	4	16	160	24
				MTCA Method B Cancer	21	0.54	--	--	0.029
Property Location	Location ID	Matrix	Sample Type	Sample Date					
Carson Cleaners	CC-MW-2S	Groundwater	Normal	12/5/2022	0.14 J	0.045 UJ	0.016 UJ	0.035 UJ	0.018 UJ
Carson Cleaners	CC-MW-2S	Groundwater	Normal	2/23/2023	0.14	0.045 U	0.016 U	0.035 U	0.018 U
Carson Cleaners	CC-MW-2S	Groundwater	Normal	6/13/2023	0.23	0.030 U	0.020 U	0.016 U	0.012 U
Carson Cleaners	CC-MW-2S	Groundwater	Normal	8/9/2023	0.34	0.030 U	0.020 U	0.016 U	0.012 U
Carson Cleaners	CC-MW-4D	Groundwater	Normal	12/5/2022	0.38 J	0.28 J	1.2 J	0.19 J	0.018 UJ
Carson Cleaners	CC-MW-4D	Groundwater	Normal	2/23/2023	0.1 J	0.27	1.5	0.27	0.017 U
Carson Cleaners	CC-MW-4D	Groundwater	Normal	6/14/2023	0.16	0.26	1.6	0.32	0.012 U
Carson Cleaners	CC-MW-4D	Groundwater	Normal	8/8/2023	0.11	0.29	1.6	0.32	0.015 U
Chevron Property	MW-18	Groundwater	Normal	12/6/2022	1.4	0.45	0.015 U	0.021 U	0.017 U
Chevron Property	MW-18	Groundwater	Normal	2/21/2023	0.023 UJ	0.032 UJ	0.015 UJ	0.021 UJ	0.017 UJ
Chevron Property	MW-18	Groundwater	Normal	6/12/2023	0.86	0.16	0.033 U	0.046 U	0.015 U
Chevron Property	MW-18	Groundwater	Normal	8/9/2023	1.6	0.37	0.020 U	0.016 U	0.012 U
Chevron Property	MW-20	Groundwater	Normal	12/6/2022	100	5.4	1.1	0.11	0.017 U
Chevron Property	MW-20	Groundwater	Normal	2/21/2023	99 J	14 J	4.4 J	0.3 J	0.018 U
Chevron Property	MW-20	Groundwater	Normal	6/12/2023	95	11	3.5	0.28	0.015 U
Chevron Property	MW-20	Groundwater	Normal	8/9/2023	130	12	3.6	0.28	0.012 U
Chevron Property	MW-22	Groundwater	Normal	12/6/2022	1.4	410	700	12	5.5 J
Chevron Property	MW-22	Groundwater	Normal	2/21/2023	0.92 J	450 J	700 J	22 J	9.9 J
Chevron Property	MW-22	Groundwater	Normal	6/12/2023	0.14 U	500	760	28	13
Chevron Property	MW-22	Groundwater	Normal	8/9/2023	0.63	440	740	26	10
Chevron Property	MW-23	Groundwater	Normal	12/6/2022	0.47	220	700	19	18 J
Chevron Property	MW-23	Groundwater	Normal	2/21/2023	0.98 J	240 J	380 J	12 J	5.1 J
Chevron Property	MW-23	Groundwater	Normal	6/12/2023	0.14 U	470	630	22	32
Chevron Property	MW-23	Groundwater	Normal	8/9/2023	0.43 U	250	470	16	21
Chevron Property	MW-25	Groundwater	Normal	12/7/2022	45	150	310	48	6.4 J
Chevron Property	MW-25	Groundwater	Normal	2/21/2023	14 J	120 J	540 J	100 J	67 J
Chevron Property	MW-25	Groundwater	Normal	6/14/2023	17	48	350	68	66
Chevron Property	MW-25	Groundwater	Normal	8/9/2023	16	37	330	65	63
Chevron Property	MW-27	Groundwater	Normal	12/6/2022	0.21	42	88	6.4	2 J
Chevron Property	MW-27	Groundwater	Normal	2/21/2023	0.079 J	7.8 J	54 J	5 J	3 J
Chevron Property	MW-27	Groundwater	Normal	6/12/2023	0.014 U	15	71	14	5.3
Chevron Property	MW-27	Groundwater	Normal	8/9/2023	0.16	100	140	32	8.1
Chevron Property	MW-28	Groundwater	Normal	12/6/2022	2.1	5.7	36	1.4	0.69 J
Chevron Property	MW-28	Groundwater	Normal	2/21/2023	250 J	490 J	150 J	0.21 UJ	2.3 J
Chevron Property	MW-28	Groundwater	Normal	6/12/2023	290	770	150	8.3	2.9
Chevron Property	MW-28	Groundwater	Normal	8/9/2023	300	720	110	6.2	2


**Table 2**  
**Groundwater Analytical Results**


				Volatile Organics (µg/L)					
				Chemical	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,2-Dichloroethene, cis-	1,2-Dichloroethene, trans-	Vinyl chloride
				Method	SW8260D	SW8260D	SW8260D	SW8260D	SW8260D
				MTCA Method A	5	5	--	--	0.2
				MTCA Method B Noncancer	48	4	16	160	24
				MTCA Method B Cancer	21	0.54	--	--	0.029
Property Location	Location ID	Matrix	Sample Type	Sample Date					


Notes:

USEPA Stage 2B data validation was completed by Laboratory Data Consultants.

All nondetect results are reported at the method detection limit.

 Detected concentration is greater than MTCA Method A screening level

 Detected concentration is greater than MTCA Method B Noncancer screening level

 Detected concentration is greater than MTCA Method B Cancer screening level

**Bold: Detected result**

Calculated values have been rounded to laboratory-reported significant digits

*Italicized*: nondetected concentration is above one or more identified screening levels

µg/L: microgram per liter

J: Estimated value

MTCA: Model Toxics Control Act

NS: Not Sampled

U: Compound analyzed for, but not detected above detection limit

UJ: Compound analyzed for, but not detected above estimated detection limit

USEPA: U.S. Environmental Protection Agency

**Table 3**  
**Ambient and Indoor Air Monitoring Analytical Results**

							Volatile Organics (µg/m <sup>3</sup> )					
							Chemical	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,2-Dichloroethene, cis-	1,2-Dichloroethene, trans-	Vinyl chloride
							Method	TO-15				
							MTCA Method B Cancer	9.6	0.33	--	--	0.28
							MTCA Method B Non Cancer	18	0.91	18	18	46
Property Location	Location ID	Matrix	Latitude	Longitude	Sample Type	Sample Date						
Carson Cleaners	CC-AA-01	Ambient Air	-122.314676	47.66324732	Normal	12/9/2022	0.14 U	0.051 U	0.036 U	0.035 U	0.024 U	
Carson Cleaners	CC-AA-01	Ambient Air	-122.314676	47.66324732	Normal	2/22/2023	0.14 U	0.051 U	0.036 U	0.035 U	0.024 U	
Carson Cleaners	CC-AA-01	Ambient Air	-122.314676	47.66324732	Normal	6/13/2023	0.18 U	0.051 U	0.020 U	0.051 U	0.012 U	
Carson Cleaners	CC-AA-01	Ambient Air	-122.314676	47.66324732	Normal	8/8/2023	0.18 U	0.051 U	0.020 U	0.051 U	0.012 U	
Episcopal Church	CC-IA-01	Indoor Air	-122.3140972	47.6629944	Normal	12/9/2022	0.14 U	0.051 U	0.036 U	0.035 U	0.024 U	
Episcopal Church	CC-IA-01	Indoor Air	-122.3140972	47.6629944	Normal	2/22/2023	0.14 U	0.051 U	0.036 U	0.035 U	0.024 U	
Episcopal Church	CC-IA-01	Indoor Air	-122.3140972	47.6629944	Normal	6/13/2023	0.18 U	0.051 U	0.020 U	0.051 U	0.012 U	
Episcopal Church	CC-IA-01	Indoor Air	-122.3140972	47.6629944	Normal	8/8/2023	0.18 U	0.051 U	0.020 U	0.051 U	0.012 U	
Mixed Use Building	CC-IA-02	Indoor Air	-122.3136028	47.6629556	Normal	12/9/2022	0.14 U	0.051 U	0.036 U	0.035 U	0.024 U	
Mixed Use Building	CC-IA-02	Indoor Air	-122.3136028	47.6629556	Normal	2/22/2023	0.14 U	0.051 U	0.036 U	0.035 U	0.024 U	
Mixed Use Building	CC-IA-02	Indoor Air	-122.3136028	47.6629556	Normal	6/13/2023	0.18 U	0.051 U	0.020 U	0.051 U	0.012 U	
Mixed Use Building	CC-IA-02	Indoor Air	-122.3136028	47.6629556	Normal	8/8/2023	0.18 U	0.051 U	0.020 U	0.051 U	0.012 U	
Carson Cleaners	CC-IA-03	Indoor Air	-122.3146444	47.6632583	Normal	12/9/2022	0.14 U	0.051 U	0.036 U	0.035 U	0.024 U	
Carson Cleaners	CC-IA-03	Indoor Air	-122.3146444	47.6632583	Normal	2/22/2023	0.14 U	0.051 U	0.036 U	0.035 U	0.024 U	
Carson Cleaners	CC-IA-03B	Indoor Air	-122.3146593	47.66326392	Normal	6/14/2023	<b>8.2</b>	0.051 U	0.020 U	0.051 U	0.012 U	
Carson Cleaners	CC-IA-03B	Indoor Air	-122.3146593	47.66326392	Normal	8/8/2023	<b>20</b>	0.051 U	0.020 U	0.051 U	0.012 U	
Bank of America	CC-IA-04	Indoor Air	-122.3135833	47.6632639	Normal	12/7/2022	0.14 U	<b>0.51</b>	<b>0.57</b>	0.035 U	0.024 U	
Bank of America	CC-IA-04	Indoor Air	-122.3135833	47.6632639	Normal	2/22/2023	0.14 U	<b>0.37</b>	<b>0.46</b>	0.035 U	0.024 U	
Bank of America	CC-IA-04	Indoor Air	-122.3135833	47.6632639	Normal	6/13/2023	0.18 U	0.051 U	0.020 U	0.051 U	0.012 U	
Bank of America	CC-IA-04	Indoor Air	-122.3135833	47.6632639	Normal	8/8/2023	0.18 U	0.051 U	0.020 U	0.051 U	0.012 U	

Notes:

All nondetect results are reported at the **method detection limit**.

USEPA Stage 2B data validation was completed by Laboratory Data Consultants.

 : detected concentration is greater than MTCA Method B Cancer screening level

 : detected concentration is greater than MTCA Method B Noncancer screening level

**Bold**: detected result

µg/m<sup>3</sup>: microgram per meters cubed

MTCA: Model Toxics Control Act

U: compound analyzed for but not detected above detection limit

USEPA: U.S. Environmental Protection Agency

**Table 4**  
**Subslab Vapor Monitoring Analytical Results**

							Volatile Organics (µg/m <sup>3</sup> )					
							Chemical	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,2-Dichloroethene, cis-	1,2-Dichloroethene, trans-	Vinyl chloride
							Method	TO-15				
Property Location	Location ID	Matrix	Latitude	Longitude	Sample Type	Sample Date						
Episcopal Church	CC-SS-01	Sub-Slab Soil Gas	-122.3140972	47.6629944	Normal	12/9/2022	0.70 U	0.25 U	0.18 U	0.17 U	0.12 U	
Episcopal Church	CC-SS-01	Sub-Slab Soil Gas	-122.3140972	47.6629944	Normal	2/22/2023	0.69 U	0.25 U	0.18 U	0.17 U	0.12 U	
Episcopal Church	CC-SS-01	Sub-Slab Soil Gas	-122.3140972	47.6629944	Normal	6/13/2023	0.94 U	0.27 U	0.10 U	0.27 U	0.062 U	
Episcopal Church	CC-SS-01	Sub-Slab Soil Gas	-122.3140972	47.6629944	Normal	8/8/2023	0.90 U	0.25 U	0.10 U	0.25 U	0.060 U	
Mixed Used Building	CC-SS-02	Sub-Slab Soil Gas	-122.3136028	47.6629556	Normal	12/9/2022	7.8 U	2.9 U	2.0 U	2.0 U	1.3 U	
Mixed Used Building	CC-SS-02	Sub-Slab Soil Gas	-122.3136028	47.6629556	Normal	2/22/2023	0.69 U	0.25 U	0.18 U	0.17 U	0.12 U	
Mixed Used Building	CC-SS-02	Sub-Slab Soil Gas	-122.3136028	47.6629556	Normal	6/13/2023	0.92 U	0.26 U	0.10 U	0.26 U	0.061 U	
Mixed Used Building	CC-SS-02	Sub-Slab Soil Gas	-122.3136028	47.6629556	Normal	8/8/2023	0.95 U	0.27 U	0.11 U	0.27 U	0.064 U	
Carson Cleaners	CC-SS-03	Sub-Slab Soil Gas	-122.3146444	47.6632583	Normal	12/9/2022	1.5 U	0.56 U	0.40 U	0.38 U	0.26 U	
Carson Cleaners	CC-SS-03b	Sub-Slab Soil Gas	-122.314678	47.663306	Normal	2/22/2023	<b>99</b>	<b>1.5</b>	0.27 U	0.26 U	0.18 U	
Carson Cleaners	CC-SS-03b	Sub-Slab Soil Gas	-122.314678	47.663306	Normal	6/14/2023	<b>42</b>	<b>1.7</b>	0.10 U	0.27 U	0.062 U	
Carson Cleaners	CC-SS-03b	Sub-Slab Soil Gas	-122.314678	47.663306	Normal	8/8/2023	<b>170</b>	<b>7.8</b>	0.10 U	0.26 U	0.061 U	

Notes:

All nondetect results are reported at the **method detection limit**.

USEPA Stage 2B data validation was completed by Laboratory Data Consultants.

**Bold:** detected result

µg/m<sup>3</sup>: microgram per meters cubed

U: compound analyzed for but not detected above detection limit

USEPA: U.S. Environmental Protection Agency



Attachment 1

Laboratory Analytical Reports

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Attachment 2

Data Validation Reports

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