

SITE NAME: Block 79 East

Cleanup Site ID: 13006 Facility/Site ID: 84466254 Completed on 2/7/2022 for inclusion on the February 2022 Hazardous Sites List.

Rank:

2

LOCATION OF SITE

701, 739, and 753 9th Ave N

Seattle, King County, WA 98109

Township 25N, Range 4E, Section 30 Latitude, Longitude: 47.62635, -122.34014

Tax Parcel ID: 40880-3435, -3440, -3485, -3565

SITE DESCRIPTION

Within Currently Defined Site Boundaries

Based on currently available information, the Block 79 East site includes the four parcels listed above (Property). Contaminants may also have migrated beyond parcel boundaries. The 1.52-acre Property is on the northwest corner of Roy Street and Westlake Avenue North (Figure 1). It is zoned as Seattle Mixed - South Lake Union Urban Center (SM-SLU 100/95), which allows a combination of light industrial, commercial, and residential uses and requires commercial uses at street level. Currently the Property is vacant.

The City of Seattle provides water, sewer, and stormwater services. A remedial investigation (RI) and feasibility study (FS) are planned under an agreed order to facilitate property redevelopment.

Petroleum, metals, volatile organic compounds (VOCs), and polycyclic aromatic hydrocarbons (PAHs) exceeding MTCA Method A cleanup levels are present in soil, groundwater, and soil vapor.

The Property formerly contained three separate sites. The Bayside Volvo site (FSID 45221945) at 753 9th Avenue North occupied the northern-most parcel (408880-3565). The Maaco Auto Painting Bodywork 9th Ave site (FSID 2224749) at 739 9th Avenue North occupied the middle parcel (408880-3485). The Seattle Motor Sports site (FSID 84466254) at 701 9th Avenue North occupied the southern-most parcels (408880-3400 and - 3435). This last site was also referred to as the Buca di Beppo Ducati site and the Frank Kenney site. These three sites were combined into one, Block 79 East, to facilitate the RI and FS.

Owner/Operator Site Uses From To 1920 1969 Parcel 408880-3435 and -Auto/truck repair shop 3440 1969 2020 Parcel 408880-3435 and -Auto sales, parking, and repair 3440 1924 1930 Parcel 408880-3485 Tire service and vehicle repair Parcel 408880-3485 Truck welding and equipment 1940 1980 manufacturing 1979 1996 Parcel 408880-3485 Vehicle sales and service 2020 Parcel 408880-3485 1996 Vehicle collision body repair and painting

Historical Owners and Operators



1950 1992 Parcel 408880-3565

Auto and motorcycle sales and service

Area Surrounding the Site

The property is bounded to the north by Aloha Street and across that a hotel (Figure 2). It is bounded to the east by 9th Avenue North and across that Lake Union Park, a restaurant, and retail stores. It is bounded to the south by Roy Street and across that a vacant lot undergoing redevelopment. It is bounded to the west by an alley and across that an office building.

The property is surrounded by five sites listed on Ecology's Confirmed and Suspected Contaminated Sites List. The Seattle City DOT ROW 710 9th Ave N site (cleanup site identification [CSID] 12379) is across the street to the east. It is awaiting cleanup. The AIBS Building Block 43 site (CSID 12637) is southeast of the Site. Cleanup has been started under independent action. The Seattle DOT Mercer Parcels site (CSID 14784) is across the street to the south. Cleanup is ongoing under an agreed order in preparation for property redevelopment. The Roy Aloha (CSID 11216) site is west of the Site. Cleanup has been started under independent action. A block west is the American Linen site (12004). Cleanup is ongoing under an agreed order and the property is being redeveloped.

The nearest surface water body is Lake Union, located 250 feet east. A two-acre portion of Lake Union Park lies along the lake shore, directly across the street to the east of the Site. The park offers landscaped lawns, paved walking paths, a small beach, and a pier.

SITE CHARACTERIZATION AND/OR REMEDIATION

The four parcels are shown in Figure 2. The northern-most parcel (former Bayside Volvo site) was used for auto repair. Three USTs were removed in 1992 (Geotech 1992). Five soil samples were analyzed for gasoline range organics (GRO) and benzene, toluene, ethylbenzene, and xylenes (BTEX).

The middle parcel (former Maaco Auto Painting Bodywork site) was used for truck body assembly, painting, and servicing. Portions of the property have been filled; decaying trash and debris have been observed in the soil. An underground storage tank (UST) was closed in place (Figure 2). During a Phase II investigation conducted in 2014, 12 direct-push borings were advanced (GeoEngineers 2014b). Four hollow-stem borings were advanced, three of which were completed as monitoring wells. Six soil vapor probes were installed. A total of 36 soil samples collected at depths ranging down to 20 feet bgs, 3 groundwater samples, and 6 soil vapor samples were analyzed for petroleum hydrcarbons, metals, PAHs, polychlorinated biphenyls (PCBs), and VOCs.

The southern-most parcels (former Seattle Motor Sports site) were historically used for truck repair. There were six hoists and a UST (Figure 2). Later the property housed a restaurant and a motorcycle dealership. A preliminary assessment conducted in 1988 included four soil borings and one groundwater sample (SoundEarth 2015). Samples were analyzed for total petroleum hydrocarbons (TPH), BTEX, and extraction procedure toxicity metals. A Phase II investigation conducted in 1992 involved eight soil borings and one monitoring well (SoundEarth 2015). Samples were analyzed for GRO, diesel range organics (DRO), oil range organics (ORO), BTEX, and VOCs. Another Phase II investigation conducted in 2014 involved seven soil borings (SoundEarth 2015). Samples were analyzed for GRO, DRO, ORO, BTEX, chlorinated VOCs, and five metals.

In March 2021, two USTs and multiple hydraulic hoists were removed from the Maaco Auto Painting Bodywork and Seattle Motor Sports parcels, along with contaminated soils associated with these features (Figure 2) (Farallon 2021). After the decommissioning, 44 soil samples collected at depths ranging down to 15 feet bgs were analysed for petroleum hydrocarbons; BTEX; chlorinated VOCs; metals; PAHs; and PCBs. The parcels are currently vacant in preparation for property redevelopment (Figure 3).

Hazardous substances exceeding soil cleanup levels include GRO, DRO, and ORO; benzene, ethylbenzene, xylenes, naphthalene, and 1-methylnaphthalene; cadmium, mercury, and lead; benzo(a)pyrene; and tetrachlorothene (PCE). Hazardous substances exceeding groundwater cleanup levels include GRO, DRO, and ORO; benzene and ethylbenzene; arsenic; and vinyl chloride. Hazardous substances exceeding soil vapor



screening levels include TPH; benzene, naphthalene, and xylenes; 1,4-dioxane; and PCE.

ADDITIONAL INFORMATION COLLECTED BY THE SITE HAZARD ASSESSOR

A site visit was conducted on January 21, 2022. Conditions at the site and in the surrounding area were consistent with those described above.

SPECIAL CONSIDERATIONS

Checked boxes indicate routes applicable for Washington Ranking Method (WARM) scoring

Surface Water

No confirmed transport pathway to surface water.

✓ Air

VOCs were detected in soil vapor above screening levels.

Groundwater

Petroleum hydrocarbons, metals, VOCs, and PAHs were detected in soil and may leach to groundwater. Benzene, vinyl chloride, and arsenic were detected in groundwater.

Multiple areas of contamination are present throughout the four parcels. The most comprehensive sampling effort was conducted on the Maaco parcel in 2014. The estimated source volumes discussed below are based on Figures 4 and 5 of the GeoEngineers (2014) Phase II report for the Maaco parcel. Most of the sampling locations investigated during that study do not appear to have been removed during the decommissioning of historical features in 2021.

Benzene exceeds its Method B screening level in soil vapor probes (SV) 3 through 6, PCE in SV 5 and 6, naphthalene in SV 3 and 4, and xylenes in SV 3 (Figure 5). The air source was assumed to be the eastern half of the property, which is approximately 65 x 190 feet, which corresponds to approximately 12,300 square feet.

Benzene exceeds Method A in MW-2, was detected below Method A in MW-3, and was not detected in MW-1 (Figure 4). Vinyl chloride exceeds Method A in MW-2 and MW-3 and was not detected in MW-1. The groundwater source was assumed to be a circle with radius 70 feet (half the distance from MW-3 to MW-1), which corresponds to 16,300 square feet. The source was assumed to be three feet thick, a default assumption when exact dimensions are not known.

ROUTE SCORES

Surface Water/ Human Health:	Surface Water/ Environment:		
Air/ Human Health:	54.4	Air/ Environment:	5.7
Groundwater/ Human Health:	37.4		

Overall Rank: 2



REFERENCES

- 1 Ecology's What's in my Neighborhood? Accessed November 2021. https://apps.ecology.wa.gov/neighborhood/
- 2 ESRI Gobal Annual Evapotranspiration. Access July 2021. https://www.arcgis.com/home/webmap/viewer.html?layers=ad3f8cc18fc74e6894ee220acd
- 3 Farallon. 2021. Historical Feature Decommissioning and Removal Summary Report, Block 79 East Property. May 17.
- 4 GeoEngineers. 2014a. Phase I Environmental Site Assessment, South Lake Union Marriott AC. November 13.
- 5 GeoEngineers. 2014b. Phase II Environmental Site Assessment, South Lake Union Marriott AC. November 13.
- 6 Geotech Consultants, Inc. 1992. Underground Storage Tank Removal and Supplemental Environmental Studies, Bayside Volvo, Seattle, WA. September 15.
- 7 King County iMap. Accessed November 2021. https://gismaps.kingcounty.gov/imap/
- 8 Missouri Census Data Center. Accessed November 2021. https://mcdc.missouri.edu/applications/caps2010.html
- 9 NOAA NCEI Climate Data Online. Accessed July 2021. https://www.ncdc.noaa.gov/cdoweb/
- 10 SoundEarth Strategies. 2015. Remedial Investigation and Cleanup Action Plan, Buca di Beppo/Ducati Property. November 19.
- 11 Washington Ranking Method (WARM) Toxicity Database. Available from Kim Wooten, Washington State Department of Ecology, Northwest Regional Office.
- 12 Washington State Department of Ecology. 2007. Washington Ranking Method (WARM) Scoring Manual. Https://apps.ecology.wa.gov/publications/documents/90014.pdf
- 13 WDOH Office of Drinking Water Find Water Systems. Accessed July 2021. https://fortress.wa.gov/doh/eh/portal/odw/si/Disclaimer.aspx?Page=FindWaterSystem.aspx



SITE HAZARD ASSESSMENT Worksheet 2: Route Documentation

SITE NAME: Block 79 East

Cleanup Site ID: 13006

Facility/Site ID: 84466254

1. SURFACE WATER ROUTE

List those substances to be considered for scoring:

Not scored

Explain the basis for choice of substances to be used in scoring:

No evidence of complete transport pathway.

List those management units to be considered for scoring:

Explain basis for choice of unit to be used in scoring:

2. AIR ROUTE

List those substances to be considered for scoring:

Benzene, PCE, naphthalene, and xylenes

Explain the basis for choice of substances to be used in scoring:

Exceedances in soil vapor.

List those management units to be considered for scoring:

Soil vapor

Explain basis for choice of unit to be used in scoring:

Exceedances in soil vapor.

3. GROUNDWATER ROUTE

List those substances to be considered for scoring:

Benzene, vinyl chloride

Explain the basis for choice of substances to be used in scoring:

Benzene exceeds Method A in soil and groundwater. Vinyl chloride exceeds Method A in groundwater and there is a source of PCE, which degrades to vinyl chloride, in soil

List those management units to be considered for scoring:

Groundwater

Explain basis for choice of unit to be used in scoring:

Exceedances in groundwater







Figure 3. Block 79 East Parcels Looking Northwest (photo taken by Ecology on February 12, 2021)





TMICH Ľ. FIED APE - LAN .DWG\TAB:SITE PLAN DATA. CHEV 3:1201207760031001CAD120776003-00 SITE PLAN SOIL VAPOR



Notes

- 1. Only analytes detected at concentrations greater than the corresponding MTCA Method A or B cleanup levels are shown in the data boxes above. For a full list of soil vapor chemical analytical detections, see Table 5.
- 2. The locations of all features shown are approximate.
- 3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Reference: Base Land Title Survey by Bush, Roed & Hitchings dated 6-28-14.

Soil Vapor Chemical Analytical Results

South Lake Union Marriott AC Seattle, Washington

GEOENGINEERS

Figure 5

Worksheet 4 Surface Water Route

CSID: 13006 Site: Block 79 East

Not scored.

Worksheet 5 Air Route

CSID: 13006 Site: Block 79 East

1.0 SUBSTANCE CHARACTERISTICS

1.1 Introduction

No scoring in Section 1.1.

1.2 Human Toxicity

	Amb. Air	Stnd.	Acute To	xicity	Chronic T	oxicity	Carcinoge	enicity
	Value		Value		Value		Adj. CPFi (risk/mg/kg-	
Substance	(ug/m ³)	Score	(mg/m ³)	Score	(mg/kg/day)	Score	day)	Score
Benzene	0.0345	10	31947	3	8.57E-03	8	2.73E-02	5
PCE	0.169	10	4000	5	1.14E-02	5	7.28E-04	3
Naphthalene	0.0294	10		Х	8.57E-04	10	5.95E-02	5
Xylenes		Х	21714	3	0.0286	5		Х
Maximum score:	10							
Bonus points:	2					Hun	nan Toxicity	Score:
Source:	WARM To	kicity Da	tabase				Range:	1-12

1.3 Mobility

Gaseous Mobility

	Vapor Pressure		Henry's	Law
	Value		Value (atm-	
Substance	(mm Hg)	Score	m3/ mol)	Score
Benzene	9.50E+01	4	5.56E-03	4
PCE	1.80E+01	4	1.82E-02	4
Naphthalene	8.20E-02	3	4.83E-04	3
Xylenes	1.00E+01	3	6.80E-03	4
Maximum score:	4			
Source:	WARM Tox	icity Da	tabase	

Particulate Mobility

Soil type:	Not scored; chemicals are volatile
Erodibility factor:	
Climatic factor:	
Mobility value:	
Source:	

Mobility Score: 4 Range: 0-4

12

1.4 Human Toxicity/Mobility

Human Tox/Mobil Score: 24 Range: 1-24

95.0

1.5 Environmental Toxi	city/Mobility			
	Acut	e		
	Value			
Substance	(mg/m ³)	Score		
Benzene	3.19E+04	3		
PCE	4.00E+03	5		
Naphthalene		Х		
Xylenes	21714	3		
Maximum score	5		Environmental Toxicity Score:	5
Source:	WARM Tox	icity Database	Range: 1-10	
			Environmental Tox/Mobil Score:	10
			Range: 1-24	
1.6 Substance Quantity	,			
Quantity:	12,300 sq f	t soil		
Basis:	Western ha	alf of property		
Source:	Phase II Tal	ble 5 and Figure 5	Substance Quantity Score:	5
			Range: 1-10	
2.1 Containment				
Description:	Soil cover 2	feet thick, no vapor c	ollection system	
Basis:	Phase II and	d HFD Report	Containment Score: Range: 0-10	5
SUBSTANCE PARAMET	ER CALCULATIO	DNS		
Human Health Pathway	/ hil + 5) x (Conta	inment +1) + Substand	e Quantity	179 0
				1, 5.0
Environmental Pathway	у			

3.0 TARGETS

3.1 Nearest Population			
Description:	Office building to west		
Distance (ft):	< 1,000 feet	Nearest Population Score:	10
Source:	іМар	Range: 0-10	

SUBe (Environ. Tox/Mobil + 5) x (Containment +1) + Substance Quantity

3.2 Nearest Sensitive Env	vironment	
Description:	Lake Union	
Distance (ft):	< 1,000 feet	Nearest Sensitive Environment Score: 7
Source:	іМар	Range: 0-7
3.3 Population within Or	ne-Half Mile	
Number:	9,831	Population within Half Mile Score: 75.0
Source:	MO CDC	Range: 0-75
TARGET PARAMETER CA	LCULATIONS	
Human Health Pathway		
TARh=Nearest Population	n + Population within Half Mile	85.0
Environmental Pathway		
TARe Nearest Sensitive I	Environment	7.0
4.0 RELEASE		
Evid. of release?	Yes	
Source:	Exceedance in soil vapor	Release Score (REL): 5.0
		Range: 0 or 5
AIR ROUTE CALCULATIO	NS	
Human Health Pathway		
AIRh =(SUBh x 60/329) x	{REL + (TARh x 35/85} / 24	54.4
Environmental Pathway		
AIRe =(SUBe x 60/329) x	{REL + (TARe x 35/85} / 24	5.7

Range: 0-100

Worksheet 6 Groundwater Route

CSID: 13006 Site: Block 79 East

1.0 SUBSTANCE CHARACTERISTICS

1.1 Human toxicity

	Drink. Wat. Stnd		Acute Toxicity		Chronic Toxicity		Carcinogenicity			
		Value		Value		Value		Adj. CPFo		
	Substance	(ug/L)	Score	(mg/kg)	Score	(mg/kg/day)	Score	(risk/mg/kg-day)	Score	
	Benzene	5	8	3,306	3	4.00E-03	3	5.50E-02	5	
	Vinyl chloride	2	8	500	5	3.00E-03	3	1.50E+00	7	
	Maximum score:	8								
	Bonus points:	2					Ηι	ıman Toxicity	Score:	10
	Source:	WARM Tox	icity Data	abase				Range:	1-12	
1.2 M	Mobility									
		Solubi	lity							
		Value	6							
	Substance	(mg/L)	Score							
	Benzene	1.75E+03	3							
	Vinyl chloride	2.76E+03	3							
		2						Mobility	Scoro	2
	Source:		icity Data	baco				Pango	1 2	5
	Source.	WARIVI TOX	icity Data	abase				Kalige.	1-2	
1.3 5	Substance quantity									
	Quantity:	1,800 cu yd								
	Basis:	Source 70 f	eet in rad	dius						
	Source:	Phase II Tab	ole 4 and	Figure 4			Substa	ince Quantity	Score:	4
								Range:	1-10	
2.1 (Containment									
	Description:	Contaminat	ed soil a	nd groundw	ater					
	Source:	Phase II and	HFD Re	port				Containment	Score:	10
								Range:	0-10	

SUBSTANCE PARAMETER CALCULATION

SUB = (Human Toxicity + Mobility + 3) x (Containment + 1) + Substance Quantity	1

2.0 MIGRATION POTENTIAL

2.2 N	et precipitation Amount (in.): Source:	22 NOAA NCEI Climate Data Online ESRI Gobal Annual Evapotranspiration	Net Precipitation Score: Range: 0-5	3
2.3 Su	ubsurface Hydraulic	Conductivity		
	Description:	Sandy silt and silty sand		
	Source:	Boring logs in Phase II	Hydraulic Conductivity Score: Range: 1-4	3
2.4 Ve	ertical Depth to Aqu	ifer		
	Depth (ft):	0 (groundwater is contaminated)	Depth to Aquifer Score:	8
	Source:	Phase II and HFD Report	Range: 1-8	
MIGR	ATION PARAMETER	CALCULATION		
MIG =	Depth to Aquifer +	Net Precipitation + Hydraulic Conductivity	[14.0
3.0 T/	ARGETS			
3.1 A	quifer Usage			
	Description:	Groundwater not used but useable		
	Source:	iMap, WDOH Water System Database	Aquifer Use Score: Range: 1-10	2
3.2 Di	istance to Nearest D	rinking Water Well		
	Distance (ft):	> 10,000	Well Distance Score:	0
	Source:	iMap, WDOH Water System Database	Range: 0-5	
2 2 0	anulation Sorved by	Drinking Water Walls within Two Miles	Dopulation Socied Score:	0.0
5.510	No of neonle		Range: 0-100	0.0
	Source:	WDOH Water System Database, Well Log Viewer	hunger of 100	
				0.0
3.4 Ai	rea Irrigated by Well	s within Two Miles	Area Irrigated Score:	0.0
	Area (acres):	U Water Resources Explorer	kange: 0-50	
	Jource.	Water Resources Explorer		

180.0

TARGET PARAMETER CA	LCULATION	
TAR = Aquifer Use + Wel	l Distance + Population Served + Area Irrigated	2.0
4.0 RELEASE		
Evid. of release?	Yes	Release Score (REL): 5.0
Source:	Phase II	Range: 0 or 5
GROUND WATER ROUTI		27.4
GW = (SUB x 40/208) x {	(MIG x 25/17) + REL + (TAR x 30/165)} / 24	37.4

Range: 0-100

Washington Ranking Method **Route Scoring Summary and Ranking Calculation**

13006 CSID: Site: **Block 79 East**

Human Health Route Scores

Pathway	Score	Quintile			
Surface water	0.0				
Air	54.4	5			
Groundwater	37.4	3			

Quintile	Value
High (H)	5
Middle (M)	3
Low (L)	

Human Health Pathway Quintiles - based off August 2021 HSL

Quintile	Surface	e Water	Air		Groundwater	
1	<=	7.3	<=	8.6	<=	24.1
2	7.4	14.9	8.7	16.3	24.2	33.2
3	15.0	21.2	16.4	25.6	33.3	40.5
4	21.3	29.8	25.7	40.3	40.6	49.7
5	>=	29.9	>=	40.4	>=	49.8

 $(H^2 + 2M + L) / 8$

Environmental Route Scores					
Pathway	Score	Quintile			
Surface water	0.0				
Air	5.7	3			
		_			
Quintile	Value	_			
High (H)	3	-			
Low (L)		_			

$(H^2 + 2L) / 7$

FINAL MATRIX RANKING

Human Health	Environmental Priority					
Priority	5	4	3	2	1	n/a
5	1	1	1	1	1	1
4	1	2	2	2	3	2
3	1	2	3	4	4	3
2	2	3	4	4	5	3
1	2	3	4	5	5	5
n/a	3	4	5	5	5	NFA

n/a - not applicable

NFA - no further action

Human Health Priority Bin Score:

Environmental Pathway Quintiles - based off August 2021 HSI

Surface Water		A	ir
<=	11.3	<=	1.2
11.4	24.1	1.3	1.5
24.2	32.5	1.6	13.8
32.6	49.6	13.9	26.5
>=	49.7	>=	26.6
	Surface <= 11.4 24.2 32.6 >=	Surface Water <=	Surface Water A <=

Environmental Priority Bin Score: 1.3

3.9

Site Rank: 2