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SITE INFORM	ATION:	Cl	eanup Site ID:	3575
ATC Distribution	Group	F	acility/Site ID:	8162841
401 S Webster St	treet			
Seattle, King Cou	nty, WA 98108			
Section:	29	Latitude:	47.53530	
Township:	24N	Longitude:	-122.32920	
Range:	4E	Tax/Parcel ID:	7327905955	

Site Scored/ranked for the February 2015 Hazardous Sites List Publication

SITE DESCRIPTION:

The ATC Distribution Group site (Site) is a former transmission repair facility and fueling station located in Seattle, King County, Washington. The 1.26-acre property is located approximately 500 feet from the Duwamish River, and zoned for industrial (IG2 U/65) use.

Adjacent properties include manufacturing warehouses to the north, east, south, and west. A construction company is located to the northeast.

The Site is currently operated as an automatic transmission parts store by MKJ Properties LLC.

The property is located along the south side of South Webster Street, between 2nd Avenue South to the west and 5th Avenue South to the east. The property is bordered on the south by South Austin Street.

The Site is located within the Riverside Drive Source Control Area. Nearby state cleanup sites include Hurlen Construction (Cleanup Site ID (CSID) 9114) and 640 Riverside Drive (CSID 2549).

SITE BACKGROUND:

A summary of prior operations/tenants at the subject property is presented below.

<u>From</u>	<u>To</u>	<u>Operator/Tenant</u>	<u>Activity</u>
	1995	White & White Properties	
1995	2008	DWW/MCW & JAW/BEW Partners Ltd	
	2009	Pro Sweep	Small truck parking and vehicle washing
	2009	North Industries, Inc.	Manufacturing of retail display cases
2008	2014	MKJ Properties LLC	Automatic transmission parts store

SITE CONTAMINATION:

In 1994 the ATC Distribution Group site was reported to Washington State Department of Ecology (Ecology) and placed on the Leaking Underground Storage Tank (LUST) list.

In 1994, one 3,000-gallon gasoline underground storage tank (UST) and one 2,000-gallon diesel UST were excavated and removed from the Site, along with the associated piping and dispensers.

During the UST removal, approximately 230 cubic yards of petroleum-impacted soil were excavated and stored onsite for treatment by landfarming. Olfactory evidence of petroleum hydrocarbons was observed in soil at approximately 4 feet below ground surface (bgs). Soil was overexcavated towards the north, south, west, and

base of the excavation. After overexcavation, soil samples were collected from the sidewalls and base of the excavation at approximately 9 feet bgs. Concentrations of gasoline and benzene, toluene, ethylbenzene, and xylenes (BTEX) were detected above Model Toxics Control Act (MTCA) Method A cleanup levels in soil samples collected along the east wall of the final excavation limits, next to the building foundation. Concentrations of benzene above the MTCA Method A cleanup level remained in the soils located at the east end of the north wall, the excavation base, and the east end of the south wall. However, the excavation was not extended to the east in order to maintain the structural integrity of the adjacent building foundation. The highest reported concentration of gasoline was 15,627 milligrams per kilogram (mg/kg), in the east end of the north wall of the excavation. Petroleum-impacted soil may be present beneath the existing building.

Visual evidence of petroleum impacts to water were observed in the excavation at approximately 7 feet bgs, and approximately 3,000 gallons of water were reportedly pumped out of the excavation. No groundwater samples were collected.

The east and north walls of the excavation were draped with plastic, and the excavation was backfilled with imported fill mixed with approximately 30 cubic yards of reportedly clean stockpiled soil.

PAST REMEDIATION ACTIVITIES:

A Phase I Environmental Site Assessment (ESA) was reportedly conducted at the Site in 2004, though this report was not available for review in Ecology's files. The report identified several areas of potential concern, including petroleum-impacted soil along the southern border of the property. No remedial actions have been reported for this area. Petroleum and transmission-fluid impacts are suspected in the southwestern quarter of the property, where petroleum hydrocarbons and transmission fluid were historically reported at the Site. Further information about this historical use was not available. Petroleum-impacted soil was also reportedly present near a floor drain in a covered wash area located in the southeast corner of the lot, and near a concrete vault in the northeastern corner of the yard. Concentrations of gasoline, diesel, oil, transmission fluid, chloroethene, 1,1,1-trichloroethane, aliphatic alcohols, ketones, and aromatic hydrocarbons have reportedly been documented at the Site and were mentioned in a subsequent report, but no further information about where and when these were documented was available for review.

In 2008, sixteen direct-push borings (GP1 through GP16) were advanced at the Site, and three of the borings were completed as monitoring wells MW01 through MW03. Olfactory evidence of petroleum was observed in soil at depth between 5 feet and 8 feet bgs from borings GP7, GP11, and GP12. Groundwater was encountered between 3.5 feet and 5 feet bgs. Soil samples collected from borings GP7 and GP11 contained concentrations of gasoline (76 mg/kg and 43 mg/kg) above the MTCA Method A cleanup level for soil with benzene, but below the MTCA Method A cleanup level for soil without detectable benzene. Concentrations of diesel, oil, and BTEX constituents were not detected in soil samples above MTCA Method A cleanup levels. Three soil samples were analyzed for trichloroethylene (TCE), and the sample from GP11 contained TCE (0.064 mg/kg) at a concentration above the MTCA Method A cleanup level. Five soil samples were analyzed for methylene chloride, and samples collected from GP1 (0.53 mg/kg), GP3 (0.94 mg/kg), and GP8 (0.51 mg/kg) contained concentrations of methylene chloride above the MTCA Method A cleanup level.

Groundwater samples were collected from temporary wells installed in each soil boring. Concentrations of diesel above the MTCA Method A cleanup level were detected in groundwater samples collected from GP7 (4,000 micrograms per liter (ug/L)) and GP12 (2,100 ug/L). The groundwater sample collected from GP7 contained gasoline (2,700 ug/L) above the MTCA Method A cleanup level, and a groundwater sample collected from GP10 contained oil (4,000 ug/L) above the MTCA Method A cleanup level. Benzene was detected in a groundwater sample collected from GP14 at a concentration above the MTCA Method A cleanup level. Groundwater samples did not contain TCE above the MTCA Method A cleanup level, and groundwater samples were not analyzed for methylene chloride.

CURRENT SITE CONDITIONS:

Petroleum-impacted soil stockpiled onsite in 1994 was reportedly intended to be landfarmed onsite, however no information was available regarding remediation or final disposition of this soil.

Petroleum-impacted soil is expected to remain underneath the existing building. Soil from GP11, in the floor drain area, contained TCE at a concentration above the MTCA Method A cleanup level. Concentrations of methylene

chloride in soils from GP1, GP3, and GP8 were reported above the MTCA Method A cleanup level.

During initial site characterization, site groundwater contained concentrations of diesel, gasoline, oil, and benzene above MTCA Method A cleanup levels. No record of ongoing groundwater monitoring was available for review.

The approximate depth to groundwater is 3.5 to 7 feet below ground surface, with groundwater flowing to the east (based on groundwater elevations). Subsurface soils are sand with layers of sandy silt, clayey silt, gravel, and construction debris (based on soil borings).

SPECIAL CONSIDERATIONS:

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

Surface Water

Release likely occurred to subsurface soil.

✓ Air

Release of volatile compounds occurred to subsurface soil.

Groundwater

In 2008, groundwater at the Site contained concentrations of diesel, gasoline, oil, and benzene above MTCA Method A cleanup levels.

ROUTE SCORES:

Surface Water/ Human Health:		Surface Water/ Environment:	
Air/ Human Health:	16.7	Air/ Environment: 1	.5
Groundwater/ Human Health:	43.7		

Overall Rank: 4

REFERENCES:

- 1 Ecology and the Environment, Inc., 2009, Executive Summary Leaking Underground Storage Tanks Special Pilot Project, RPM Merit. May 6, 2009.
- 2 Ecology Water Resources Explorer, accessed May 2014. https://fortress.wa.gov/ecy/waterresources/map/WaterResourcesExplorer.aspx
- 3 King County GIS Center iMAP application, Property Information, Groundwater Program, and Sensitive Areas mapsets. Accessed March 2014. http://www.kingcounty.gov/operations/GIS/Maps/iMAP.aspx
- 4 Missouri Census Data Center, Circular Area Profiles 2010 census data around a point location. http://mcdc.missouri.edu/websas/caps10c.html. Accessed March 2014.
- 5 National Climatic Data Center 2011 Local Climatological Data for Seattle, Seattle Tacoma Airport. http://www1.ncdc.noaa.gov/pub/orders/IPS-90B1F39F-6CFA-4A6B-AA82-5ED1FF897CCC.pdf
- 6 Nowicki and Associates, 1994. RPM Merit UST Removals and Soil Remediation. August 17, 1994.
- 7 Sound Environmental Strategies Corporation, 2008, Subsurface Investigation Report. February 14, 2008.
- 8 WARM Scoring Manual
- 9 WARM Toxicological Database
- 10 Washington Department of Transportation 24-hour Isopluvial Maps, January 2006 update. http://www.wsdot.wa.gov/publications/fulltext/Hydraulics/Wa24hrIspoluvials.pdf

11 Washington State Department of Ecology, 2009, Initial Investigation Field Report Site Name RPM Merit. June 10, 2009.

SITE HAZARD ASSESSMENT Worksheet 2 Route Documentation

Cleanup Site ID: 3575 Facility/Site ID: 8162841 ATC Distribution Group

1. SURFACE WATER ROUTE

List those substances to be considered for scoring:

Not applicable

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

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:

Gasoline (benzene), toluene, ethylbenzene, xylenes, TCE, and methylene chloride

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

Prior detection in Site soil at concentrations above MTCA Method A cleanup levels

List those management units to be considered for scoring:

Soil vapor

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

Potential for vapor transport

3. GROUNDWATER ROUTE

List those substances to be considered for scoring:

Gasoline (benzene), diesel, oil, toluene, ethylbenzene, xylenes, TCE, and methylene chloride

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

Prior detection in Site groundwater at concentrations above MTCA Method A cleanup levels and documented release to soil

List those management units to be considered for scoring:

Groundwater

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

Presence in groundwater at concentrations above MTCA Method A cleanup levels and potential for transport to groundwater

Worksheet 5 Air Route Site Name: ATC Distributing

1.0 Substance Characteristics

1.1 Introduction (WARM Scoring Manual) - Please Review before scoring

CSID: 3575

1.2 Human Toxicity

	Ambient Air	Acute Toxicity	Chronic Toxicity	Carcinogenicity
Substance	Standard Value	Value	Value	Value
Gasoline (benzene)	10	3 X 5		
Toluene	1	Х	1	Х
Ethylbenzene	1	Х	Х	Х
Xylenes	1	3	1	Х
TCE	10	3	Х	4
Methylene chloride	9	3	1	4
		-	-	Highest Value

1.3 Mobility

Gaseous Mobility	Max Value:	4
Particulate Mobility	Soil Type:	
	Erodibility:	
	Climatic Factor:	

1.4 Final Human Health Toxicity/Mobility Matrix Value

1.5 Environmental Toxicity/Mobility

	Non-human Mammalian Acute			Table A-7
Substance	Inhalation Toxicity (mg/m3)	Value	Mobility Value	Matrix Value
Gasoline (benzene)	31947	3	4	6
Toluene	Х	Х	4	Х
Ethylbenzene	Х	Х	3	Х
Xylenes	21714	3	3	5
TCE	15583	3	4	6
Methylene chloride	88000	3	4	6

Env. Final Matrix Value 6

1.6 Substance Quantity

Amount: 2,000 square feet

Basis: Estimated extent of impacted soil

Substance Quantity Value 4

Mobility Value 4

HH Final Matrix Value

Bonus Points?

Toxicity Value

24

2

12

Worksheet 5

Air Route

CSID: 3575	Site Name: ATC Distributing
2.0 Migration Potential	
2.1 Containment	Containment Value 5
Explain Basis: At least two feet of soil cover	but no
vapor collection system prese	ent
3.0 Targets	
3.1 Nearest Population	Population Distance Value 10
Approximately 660 feet to the nearest dwelling	
3.2 Distance to and name of nearest sensitive environm	nents Sensitive Environment Value 7
Approximately 460 feet to the Duwamish River	
3.3 Population within 0.5 miles	Population Value 20
400 population	
4.0 Release	Release to Air Value 0
Explain basis for scoring a release to air:	
No confirmed release to air	
Pathway Scoring - Air Route, Human Health Pathway	

 $AIR_{H} = (SUB_{AH}*60/329)*[REL_{A}+(TAR_{AH}*35/85)]/24$ Where:

 $SUB_{AH} =$ (Human toxicity + 5) * (Containment + 1) + Substance Qty $REL_A =$ Release to Air

TAR_{AH} = Nearest Population + Population within 1/2 mile

SUB _{AH}	178
REL _A	0
TAR _{AH}	30
AIR _H	16.7

Pathway Scoring - Air Route, Environmental Pathway		
AIR _E = (SUB _{AE} *60/329)*[REL _A +(TAR _{AE} *35/85)]/24 Where:		
SUB _{AE} =(Environmental Toxicity Value +5)*(Containment +1) +Substance Qty REL . = Release to Air	SUB _{AE}	70
$TAR_{AE} = Nearest Sensitive Environment$	TAR _{AE}	7
	AIR _E	1.5

Worksheet 6 Groundwater Route Site Name: ATC Distributing

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CSID: 3575
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1.0 Substance Characteristics

1.1 Human Toxicity

	r					
	Drinking Water	Acute To	oxicity	Chronic Toxicity	Carcinogenicity	
Substance	Standard Value	Value	е	Value	Value	
Gasoline (benzene)	8	3		Х	5	
Diesel	4	5		3	Х	
Toluene	2	3		1	Х	
Ethylbenzene	4	3		1	Х	
Xylenes	2	10		1	Х	
TCE	8	3		Х	4	
Methylene chloride	8	3		1	2	
					Highest Value	10
					Bonus Points?	2
					Toxicity Value	12
1.2 Mobility						
Cations/Anions	Max Value					
			2			2
Solubility			3		Mobility value	3
1.3 Substance Quantity						
Amount:	135 cubic yards					
Basis:	Estimated volume of re	emaining				
	petroleum-impacted so	bil		Substar	nce Quantity Value	3
2.0 Migration Potential						
2 1 Containment				(Containment Value	10
Evolain Basis:	Contaminated soil			·		10
Explain Basis.	Containinated Soli					
2.2 Net Precipitation	>10 to 20	inches		Net	Precipitation Value	2
2.3 Subsurface Hvdraulic C	onductivity				Conductivity Value	4
					,	
2.4 Vertical Depth to Groun	dwater	3.5 to 7	1	feet		
	Confirmed release:	Yes		Dep	th to Aquifer Value	8
3.0 Targets						
3.1 Groundwater Usage					Aquifer Use Value	4
3.2 Distance to Nearest Drir	nking Water Well		9.100	feet		
	v			W	ell Distance Value	1
2.2 Donulation Conved with	n 2 Miles			Donul	ation Sanuad Value	2
3.5 Fopulation Served With				Fopula	auon Serveu value	3
12	people					

Worksheet 6

Groundwater Route



Washington Ranking Method

Route Scores Summary and Ranking Calculation Sheet

Site Name:	ATC Distributin	g			CSID:		3575		
Site Address:	401 South Web	oster Street			FSID:		8162841		
HUMAN HEALTH R	OUTE SCORES								
Enter Human Healt	h Route Scores for a	ll Applicable Route	s:					Hu	man Health
Pathway	Route Score	Quintile Group		H ² +	2M	+	L	Priorit	y Bin Score:
Surface Water	ns	0	H= 4	16	6	I	0	_	2
Air	16.7	3	M= 3	10 +	0	T	U	-	5
Groundwater	43.7	4	L= 0		8			rounde wł	d up to next
ENVIRONMENT RO Enter Environment Pathway	UTE SCORES Route Scores for all Route Score	Applicable Routes: Quintile Group		H ² +	2L			E Priorit	nvironment y Bin Score:
Surface Water	ns	0	H= 1	1 +	0		=		1
Air	1.5	1	L= 0	-	Ŭ				-
				7				rounde wł	d up to next ole number
Comments/Note	<u>s:</u>								
					FINAI RA	L M/ NKI	ATRIX NG		4

FOR REFERENCE:

Final WARM Bin Ranking Matrix

Human										
Health	Environment Priority									
<u>Priority</u>										
	5	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				

Quintile Values for Route Scores - August 2014 Values

	Human Health						Environment			
	Surface				Ground		Surface			
Quintile	Water		Air		Water		Water		Air	
5	>=	30.7	>=	37.3	>=	51.9	>=	49.8	>=	30.3
4	>=	22.5	>=	23.0	>=	41.0	>=	30.9	>=	23.0
3	>=	13.0	>=	14.5	>=	33.1	>=	23.2	>=	14.1
2	>=	6.8	>=	8.1	>=	23.5	>=	10.7	>=	1.6
1	<=	6.7	<	8.1	<=	23.4	<=	10.6	<=	1.5

Quintile value associated with each route score entered above



Legend:



- Excavation area (approximate)
- Former Site feature/use (approximate)
- Monitoring well (approximate)
- Soil boring (approximate)

Notes:

1. All locations are approximate, and not to scale.

ATC Distribution Group 401 South Webster Street Seattle, WA 98108



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Site Overview Map

CSID 3575 CSID3575.vsd