SITE HAZARD ASSESSMENT Worksheet 1 Summary Score Sheet

SITE INFORMATION: Cleanup Site ID: 12482

Quiet Cove Facility/Site ID: 20859

202 O Ave

Anacortes, Skagit County, WA 98221

Section: 13 Latitude: 48.52047

Township: 35 Longitude: -122.61457

Range: 1E Tax/Parcel ID: P55354, P55358, P55359

Site scored/ranked for the Hazardous Sites List Publication: August 2018

SITE DESCRIPTION:

The Quiet Cove site (Site) is a a former bulk fuel facility located in Anacortes, Skagit County, Washington. The 0.8-acre property is located approximately 115 feet from Guemes Channel, and zoned for MS (marine shipping) use.

The Site is comprised of three tax parcels located on O Ave between 2nd and 3rd Street. The area surrounding the Site to the north, west, and east is primarily comprised of additional Port of Anacortes property. Guemes Channel borders the Port property to the north and west of the Site. A Texaco/Reisner bulk fuel distribution facility is located to the southwest of the Site, N Avenue Park is located to the northwest, and a thrift shop and residential properties are located to the south across 3rd Street.

The Site is currently operated as a storage area by Port of Anacortes.

The Site is currently used for storage in support of the activities of the Curtis Wharf International Shipping Terminal. An office and two warehouse buildings are located on the northwest portion of the Site. Buildings, pavement, and compacted gravel cover the Site. Access to the property is controlled by fencing.

During the period of use as a bulk fuel facility, oil tanks were located in the northeast and central portions of the Site. These structures were removed in the late 1970s.

The Puget Sound Initiative was established by the Governor's office in 2007 with the goal of restoring the health of Puget Sound by 2020. A leading source of pollution to Puget Sound is contaminated sites around its shorelines. Ecology's Toxics Cleanup Program has identified contaminated sites within one-half mile of the Sound. This Site is a Puget Sound Initiative site.

SITE BACKGROUND:

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

<u>From</u>	<u>To</u>	Operator/Tenant	Activity
1910	1967	Standard Oil	Bulk fuel storage and distribution; parcel P55354
1967	1977	Standard Oil	Bulk fuel storage and distribution; all three parcels
1977	2013	Thomas and Patricia Stowe	Multiple tenants - marine vessel and RV storage, marine-related sales and services
2013	2018	Port of Anacortes	Current storage and future redevelopment as part of overall Port activities

SITE CONTAMINATION:

Quiet Cove SHA: Page 1 of 3

SITE HAZARD ASSESSMENT Worksheet 1 Summary Score Sheet

In 2014 the Quiet Cove site was reported to Washington State Department of Ecology (Ecology) and placed on the Confirmed and Suspected Contaminated Sites List (CSCSL).

The source of contamination on Site is the historic use as a bulk fuel facility. The extent of contamination in soil and groundwater were investigated in 2014 by GeoEngineers. Soil on Site was confirmed to be contaminated above MTCA Method A cleanup levels with petroleum hydrocarbons in the gasoline, diesel, or oil range (TPH-G, -D, or -O), benzene, toluene, ethylbenzene, xylenes, carcinogenic polycyclic aromatic hydrocarbons (cPAHs), chromium, and cadmium at depths of 2 - 6 feet below ground surface (bgs). Contaminated soil is present in both the vadose and saturated zones. Concentrations were highest in soil samples from the central portion of the Site. Groundwater samples indicated contamination with TPH-D above MTCA Method A cleanup levels at all wells on site. At least one well also indicated contamination with TPH-O (MW-2, -3), PAHs (MW-3, -5) and arsenic (MW-5; located upgradient of former fuel storage areas).

Based on currently available Site data, groundwater flows to the northwest, toward Guemes Channel. It is expected that groundwater flows to the downgradient marine sediment and then discharges into surface water. While future Site characterization activities will continue to investigate this pathway, sediment and surface water downgradient of the Site have not yet been sampled to confirm that they have been impacted.

REMEDIATION ACTIVITIES:

No prior remedial activities on the Site have been reported to Ecology. A targeted remedial action was performed relating to contamination from an uncapped pipeline at the adjacent Reisner/Texaco bulk fueling facility. Areas of remediation are included on Site figures below and denoted as "off-property contaminant sources".

CURRENT SITE CONDITIONS:

The closest non-industrial buildings to the Site are located approximately 100 feet to the south, across 3rd St, and include single family residences and the Soroptimist Thrift Shop. Additional Port of Anacortes buildings are located 90 feet north of the Site. Six additional Ecology cleanup sites are located within 1/4 mile of the Site, including one No Further Action site (US Postal Service Anacortes), three Cleanup Started (Trident Seafoods, Anacortes Maintenance, Anacortes Port - Dakota Creek), and one Awaiting Cleanup (Reisner Distributing 2). The closest sensitive environment is the N Ave Park, located on the shoreline of Guemes Channel, 100 feet NW of the Site.

The Site is connected to City of Anacortes utilities (water, sewer, storm water). There are no active drinking water wells within 2 miles on Fidalgo Island. Across the Guemes Channel, however, there are active drinking water wells on Guemes Island within 2 miles of the Site. Guemes Island is a sole source aquifer. Because groundwater on the Site is relatively shallow and likely discharging to surface water and not connected to the Guemes Island aquifer, wells in the Guemes Island aquifer were not considered during scoring.

The approximate depth to groundwater is 5 - 10 feet below ground surface, with groundwater flowing to the northwest. Subsurface soils are sand with varying silt content in both the top fill layer (2-7 feet bgs) and the underlying shoreline deposits (up to 14 feet bgs).

SPECIAL CONSIDERATIONS:

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

✓ Surface Water

Contaminated groundwater is likely discharging to Guemes Channel surface water.

✓ Air

Volatile chemicals have been detected in the subsurface.

✓ Groundwater

Chemicals have been detected in groundwater on Site.

Quiet Cove SHA: Page 2 of 3

SITE HAZARD ASSESSMENT Worksheet 1 Summary Score Sheet

ROUTE SCORES:

Surface Water/ Human Health: 18.0 Surface Water/ Environment: 44.7

Air/ Human Health: 22.2 Air/ Environment: 1.6

Groundwater/ Human Health: 42.5

Overall Rank: 2

REFERENCES:

- 1 City of Anacortes. Accessed 2018. City of Anacortes Zoning map. https://www.anacorteswa.gov/DocumentCenter/View/5042
- 2 ESRI. Accessed 2018. World Annual Evapotranspiration Map. Acessed through https://www.esri.com/arcgis-blog/products/arcgis-online/mapping/world-average-annual-evapotranspiration-web-map-now-available/
- 3 GeoEngineers. 2017. Final Remedial Investigation/Feasibility Study Work Plan, Quiet Cove Property, Anacortes, Washington, Ecology Agreed Order No. DE 11346.
- 4 Missouri Census Data Center. Accessed 2018. Circular Area Profiles Version 10C. http://mcdc.missouri.edu/websas/caps10c.html
- 5 NOAA National Centers for Environmental Information. Accessed 2018. Global Summary of the Year 2000 2011 Anacortes and Anacortes 4.9 S stations. Requested from https://www.ncdc.noaa.gov/cdo-web/
- 6 NOAA. Accessed 2018. Atlas 2: Precipitation Frequency Estimates. http://www.nws.noaa.gov/oh/hdsc/noaaatlas2.htm
- 7 Skagit County GIS. Accessed 2018. FEMA Q3 100 Year Flood Map. https://www.skagitcounty.net/GIS/Documents/Flood/FEMA%20Q3%20100%20Year%20Floodplain%20Map.pdf
- 8 Skagit County iMap. Accessed 2018. https://www.skagitcounty.net/Maps/iMap/
- 9 US EPA. Accessed 2018. Sole Source Aquifer Interactive Map. https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=9ebb047ba3ec41ada1877 155fe31356b
- 10 USGS. Accessed 2018. The National Map. https://viewer.nationalmap.gov/advanced-viewer/
- 11 WA Dept. of Ecology. Accessed 2018. What's in My Neighborhood. https://fortress.wa.gov/ecy/neighborhood/
- 12 WA Dept. of Ecology. Accessed 2018. Well Report Viewer. https://fortress.wa.gov/ecy/waterresources/map/WCLSWebMap/default.aspx
- 13 WA Dept. of Fish & Wildlife. Accessed 2018. Priority Habitats and Species (PHS on the Web). http://apps.wdfw.wa.gov/phsontheweb/
- 14 WA Dept. of Health Office of Drinking Water. Accessed 2018. Find Water System. https://fortress.wa.gov/doh/eh/portal/odw/si/FindWaterSystem.aspx

Quiet Cove SHA: Page 3 of 3

SITE HAZARD ASSESSMENT Worksheet 2 Route Documentation

Cleanup Site ID: 12482 Quiet Cove

Facility/Site ID: 20859

1. SURFACE WATER ROUTE

List those substances to be considered for scoring:

TPH-G, naphthalene, benzo(a)anthracene, arsenic

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

Substances have been detected in groundwater, the potential source of surface water contamination.

List those management units to be considered for scoring:

Groundwater

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

Substances have been detected in groundwater.

2. AIR ROUTE

List those substances to be considered for scoring:

Benzene, toluene, ethylbenzene, xylenes

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

Volatile substances that have been detected in the subsurface.

List those management units to be considered for scoring:

Soil

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

Volatile substances have been detected in shallow soil (2-6 feet bgs) on Site.

3. GROUNDWATER ROUTE

List those substances to be considered for scoring:

TPH-G, naphthalene, benzo(a)anthracene, arsenic

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

Substances have been detected in groundwater.

List those management units to be considered for scoring:

Groundwater

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

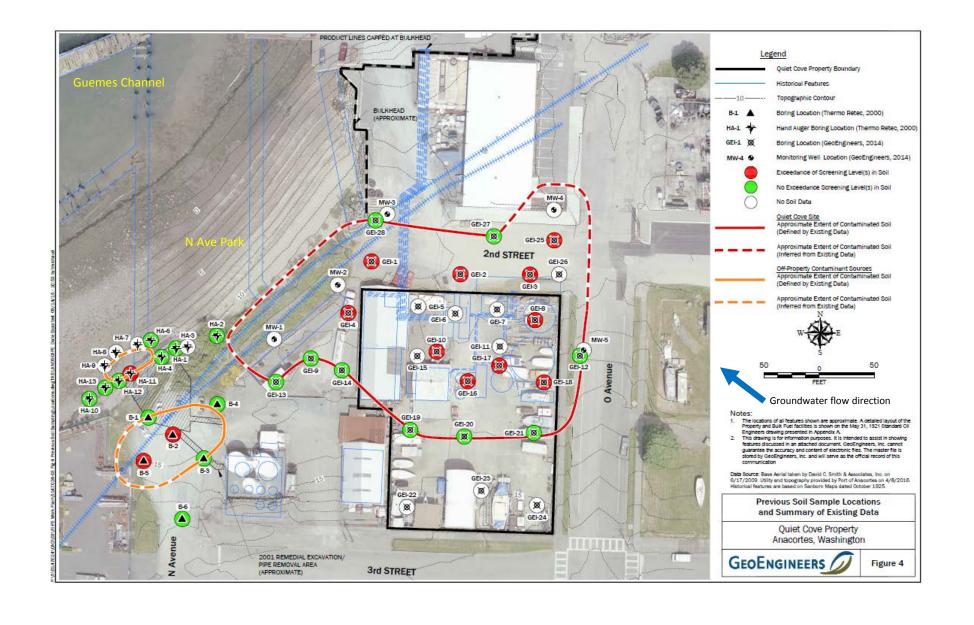
Substances have been detected in groundwater.

Maximum concentrations of chemicals in soil and groundwater sampled on Site in 2014.

CHEMICAL	MAXIMUM CONCENTRATION ^a	SCREENING CONCENTRATIONa, b (vadose/saturated)	MEDIA	SAMPLE ID (depth, zone)
TPH-G	9,400	30/30		GEI-17 (4-6 ft, saturated)
TPH-D	18,000	2,000/2,000		GEI-4 (2-3 ft, vadose)
TPH-O	21,000	2,000/2,000		GEI-4 (2-3 ft, vadose)
benzene	62	0.05/0.05		GEI-17 (4-6 ft, saturated)
toluene	180	3.78/0.22		GEI-17 (4-6 ft, saturated)
ethylbenzene	16	1.12/0.06	soil	GEI-17 (4-6 ft, saturated)
xylenes	361	2.83/0.16		GEI-17 (4-6 ft, saturated)
naphthalene	27.4	0.25/0.01		GEI-4 (2-3 ft, vadose)
cPAH TEQ	3.97	0.22/0.011		GEI-10 (4-6 ft, saturated)
cadmium	2.4	1.2/1		GEI-4 (2-3 ft, vadose)
chromium	52	1,000/50		GEI-25 (4-6 ft, saturated)
TPH-D	2,600	500		MW-3
TPH-O	980	500		MW-2
naphthalene	56	8.9	groundwater	MW-3
benzo(a)anthracene	0.015	0.01		MW-3
arsenic	10	5		MW-5

a - soil concentrations all mg/kg; groundwater concentrations all μg/L

b – site-specific screening concentrations taken from Table 1 and 2 in the RI/FS Work Plan



Worksheet 4 Surface Water Route

CSID: 12482 **Site: Quiet Cove**

1.0 SUBSTANCE CHARACTERISTICS

1.1 Human Toxicity

	Drink. Wat. Stnd.		Acute To	Acute Toxicity		Chronic Toxicity		nicity
	Value		Value		Value		Adj. CPFo	
Substance	(ug/L)	Score	(mg/kg)	Score	(mg/kg/day)	Score	(risk/mg/kg-day)	Score
Gasoline (benzene)	5.00E+00	8	3.31E+03	3	4.00E-03	3	5.50E-02	5
Naphthalene		Χ	4.90E+02	5	2.00E-02	1		Χ
Benzo(a)anthracene	2.00E-03	10		Χ	3.00E-03	3	8.00E-02	5
Arsenic	1.00E+01	8	7.63E+02	5	3.00E-04	5	1.50E+00	7

Maximum score: 10

Bonus points: 2 Human Toxicity Score: 12 Range: 1-12

Source: **WARM Toxicity Database**

1.2 Environmental Toxicity

Freshwater:

Marine:	Χ		
	Acute Water		
	Quality Criterion		
	Value		
Substance	(ug/L)	Score	
Gasoline (benzene)	5.10E+03	2	
Naphthalene	2.35E+03	2	
Benzo(a)anthracene		Χ	
Arsenic	6.90E+01	6	

Maximum score: **Environmental Toxicity Score:** Source: **WARM Toxicity Database** Range: 2-10

1.3 Substance Quantity

Amount: 1.36 acres

Basis: area delineated as contaminated soil in RI work plan

Source: site report Substance Quantity Score:

Range: 1-10

2.1 Containment

Description: pathway is groundwater to surface water, and chemicals detected in

groundwater

Source: site report Containment Score: 10

Range: 0-10

SUBSTANCE PARAMETER CALCULATIONS

Human Health Pathway

SUBh (Human Toxicity + 3) x (Containment + 1) + Substance Quantity

173.0

Environmental Pathway

SUBe (Environ. Toxicity + 3) x (Containment + 1) + Substance Quantity

107.0

2.0 MIGRATION POTENTIAL

2.2 Surface Soil Permeability

Description: sandy fill, sand with silt

Source: Soil Permeability Score: 1

Range: 1-7

2.3 Total Annual Precipitation

Amount (in.): 26.9 Annual Precipitation Score: 2

Source: mean annual precip (NOAA, 2000-2011 data) Range: 1-5

2.4 Maximum Two-Year/24-Hour Precipitation

Amount (in.): 1.43 24-Hour Precipitation Score: 2

Source: NOAA Atlas2 Range: 1-5

2.5 Flood Plain

Classification: not in flood plain Floodplain Score: 0

Source: Skagit County flood map Range: 0-2

2.6 Terrain Slope

Degree of slope: 5.30%

Source: USGS National Map (topography) Terrain Slope Score: 3

Skagit County iMap (distance) Range: 1-5

MIGRATION PARAMETER CALCULATION

MIG = Soil Permability + Annual Precip. + 24-Hour Precip. + Floodplain + Slope

8.0

3.0 TARGETS

3.1 Distance to Surface Water

Name: Guemes Channel (at N Ave Park)

Distance (ft): 114 Distance to Surface Water Score: 10

Source: Skagit County iMap Range: 0-10

3.2 Population Served within 2 Miles

Population: surface water is marine/nonpotable Population Served Score: 0

Source: site report Range: 0-75

3.3 Area Irrigated within 2 Miles

Basis: surface water is marine

Area (acres): 0 Area Irrigated Score: 0

Source: site report Range: 0-30

3.4 Distance to Nearest Fishery Resource

Name: Guemes Channel

Distance (ft): 114 Distance to Fishery Score: 12

Source: Skagit County iMap, WA DFW PHS on the Web Range: 0-12

3.5 Distance to Nearest Sensitive Environment

Name: Guemes Channel

Distance (ft): 114 Distance to Sensitive Environment Score: 12

Source: Skagit County iMap Range: 0-12

TARGET PARAMETER CALCULATIONS

Human Health Pathway

TARh: Dist. to Surface Water + Population Served + Area Irrigated 10.0

Environmental Pathway

TARe Dist. to Surface Water + Dist. to Fishery + Dist. to Sensit. Environ. 34.0

4.0 RELEASE

Evid. of release? no available data for sediment and surface water downgradient of Site

Source: site report Release Score (REL): 0.0

Range: 0 or 5

SURFACE WATER ROUTE CALCULATIONS

Human Health Pathway

SWh : (SUBh x 40/175) x [(MIG x 25/24)) + REL + (TARh x 30/115)] / 24

18.0

Environmental Pathway

SWe = (SUBe x 40/153) x {(MIG x 25/24)) + REL + (TARe x 30/34)} / 24

44.7

Worksheet 5 Air Route

CSID: 12482 Site: Quiet Cove

1.0 SUBSTANCE CHARACTERISTICS

1.1 Introduction

No scoring in Section 1.1.

1.2 Human Toxicity

	Amb. Air Stnd.		Acute Toxicity		Chronic Toxicity		Carcinogenicity	
	Value		Value		Value		Adj. CPFi (risk/mg/kg-	
Substance	(ug/m³)	Score	(mg/m ³)	Score	(mg/kg/day)	Score	day)	Score
Benzene	3.45E-02	10	3.19E+04	3	8.57E-03	8	2.73E-02	5
Toluene	5.00E+03	1		Χ	1.43E+00	3		Χ
Ethylbenzene	4.00E-01	10		Χ	2.86E-01	3		Χ
Xylenes		Χ	2.17E+04	3	2.86E-02	5		Х

Maximum score: 10 Bonus points: 2

Source: WARM Toxicity Database

Human Toxicity Score: 12

Range: 1-12

1.3 Mobility

Gaseous Mobility

	Vapor Pre	essure	Henry's Law		
	Value		Value (atm-		
Substance	(mm Hg)	Score	m3/ mol)	Score	
Benzene)	9.5E+01	4	5.56E-03	4	
Toluene	2.8E+01	4	6.63E-03	4	
Ethylbenzene	7.0E+00	3	7.88E-03	4	
Xylenes	1.0E+01	3	6.80E-03	4	

Maximum score: 4

Source: WARM Toxicity Database

Particulate Mobility

Soil type:

Erodibility factor: Climatic factor:

Mobility value: Mobility Score: 4

Source: Range: 0-4

1.4 Human Toxicity/Mobility

Source: WARM Scoring Manual Human Tox/Mobil Score: 24

Range: 1-24

1.5 Environmental Toxicity/Mobility

	Acute	е
	Value	
Substance	(mg/m^3)	Score
Benzene	3.19E+04	3
Toluene		Χ
Ethylbenzene		Χ
Xylenes	2.17E+04	3
Maximum score	3	
C	14/4 D. 4 T	

Environmental Toxicity Score:

Range: 1-10

3

Source: WARM Toxicity Database

Environmental Tox/Mobil Score:

Range: 1-24

1.6 Substance Quantity

Quantity: 6,800 yd³

Basis: aerial extent of contamination x 1 yd vertical depth (4-6 ft bgs)

Source: Substance Quantity Score: 8

Range: 1-10

2.1 Containment

Description: cover > 2 ft thick with no vapor collection system

Basis: site report Containment Score: 5

Range: 0-10

SUBSTANCE PARAMETER CALCULATIONS

Human Health Pathway

SUBh (Human Tox/Mobil + 5) x (Containment +1) + Substance Quantity

182.0

Environmental Pathway

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

74.0

3.0 TARGETS

3.1 Nearest Population

Description: Port buildings

Distance (ft): 90 Nearest Population Score: 10

Source: Skagit County iMap Range: 0-10

3.2 Nearest Sensitive Environment

Description: N Ave Park/Guemes Channel

Distance (ft): 100 Nearest Sensitive Environment Score: 7

Source: Skagit County iMap Range: 0-7

3.3 Population within One-Half Mile

Number: 842 Population within Half Mile Score: 29.0

Source: Missouri Census Data Center Range: 0-75

TARGET PARAMETER CALCULATIONS

Human Health Pathway

TARh: Nearest Population + Population within Half Mile 39.0

Environmental Pathway

TARe Nearest Sensitive Environment 7.0

4.0 RELEASE

Evid. of release? no reported vapor issues on site

Source: site report Release Score (REL): 0.0

Range: 0 or 5

AIR ROUTE CALCULATIONS

Human Health Pathway

AIRh : (SUBh x 60/329) x {REL + (TARh x 35/85} / 24

Environmental Pathway

AIRe : (SUBe x 60/329) x {REL + (TARe x 35/85} / 24

Worksheet 6 Groundwater Route

CSID: 12482 Site: Quiet Cove

1.0 SUBSTANCE CHARACTERISTICS

1.1 Human toxicity

	Drink. Wat. Stnd		Acute To	Acute Toxicity		Chronic Toxicity		Carcinogenicity	
Substance	Value (ug/L)	Score	Value (mg/kg)	Score	Value (mg/kg/day)	Score	Adj. CPFo (risk/mg/kg-day)	Score	
Gasoline (benzene)	5.00E+00	8	3.31E+03	3	4.00E-03	3	5.50E-02	5	
Naphthalene		Χ	4.90E+02	5	2.00E-02	1		Χ	
Benzo(a)anthracene	2.00E-03	10		Χ	3.00E-03	3	8.00E-02	5	
Arsenic	1.00E+01	8	7.63E+02	5	3.00E-04	5	1.50E+00	7	

Maximum score: 10

Bonus points: 2 Human Toxicity Score: 12

Source: WARM Toxicity Database

1.2 Mobility

	Solubility		
	Value		
Substance	(mg/L)	Score	
Gasoline (benzene)	1.75E+03	3	
Naphthalene	3.10E+01	1	
Benzo(a)anthracene	9.40E-03	0	
Arsenic	K >1	3	

Maximum value:3Mobility Score:Source:WARM Toxicity DatabaseRange: 1-3

1.3 Substance quantity

Quantity: 6,800 yd³

Basis: aerial extent of contamination x 1 yd vertical depth (4-6 ft bgs)

Source: Substance Quantity Score: 8

Range: 1-10

3

Range: 1-12

2.1 Containment

Description: contaminants detected in groundwater

Source: site report Containment Score: 10

SUBSTANCE PARAMETER CALCULATION

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

206.0

2.0 MIGRATION POTENTIAL

2.2 Net precipitation

Amount (in.): 11.7 Net Precipitation Score: 2

Source: mean annual precip (NOAA, 2000-2011 data) Range: 0-5

- annual evapotranspiration (ESRI)

2.3 Subsurface Hydraulic Conductivity

Description: sandy fill, sand with silt

Source: site report Hydraulic Conductivity Score: 4

Range: 1-4

2.4 Vertical Depth to Aquifer

Depth (ft): 0 (contaminants detected in groundwater) Depth to Aquifer Score: 8

Source: site report Range: 1-8

MIGRATION PARAMETER CALCULATION

MIG = Depth to Aquifer + Net Precipitation + Hydraulic Conductivity

14.0

3.0 TARGETS

3.1 Aquifer Usage

Description: groundwater not usable (saltwater intrusion)

Source: site report Aquifer Use Score: 1

Range: 1-10

3.2 Distance to Nearest Drinking Water Well

Distance (ft): see Current Site Conditions Well Distance Score: 0

Source: WDOH Find Water System Range: 0-5

3.3 Population Served by Drinking Water Wells within Two Miles Population Served Score: 0.0

No. of people: see Current Site Conditions Range: 0-100

Source: WDOH Find Water System, WDOE Well Report Viewer

3.4 Area Irrigated by Wells within Two Miles Area Irrigated Score: 0.0

Area (acres): see Current Site Conditions Range: 0-50

Source: WDOE Well Report Viewer

TARGET PARAMETER CALCULATION

TAR = Aquifer Use + Well Distance + Population Served + Area Irrigated

1.0

4.0 RELEASE

Evid. of release? confirmed detections in groundwater Release Score (REL): 5.0

Source: site report Range: 0 or 5

GROUND WATER ROUTE CALCULATION

42.5

 $GW = (SUB \times 40/208) \times \{(MIG \times 25/17) + REL + (TAR \times 30/165)\} / 24$

Washington Ranking Method Route Scoring Summary and Ranking Calculation

CSID: 12482 Site: **Quiet Cove**

Human Health Route Scores

Pathway	Score	Quintile
Surface water	18.0	3
Air	22.2	3
Groundwater	42.5	4

Quintile	Value	
High (H)	4	
Middle (M)	3	
Low (L)	3	

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

Human Health Pathway Quintiles - February 2018

Quintile	Surface Water		ater Air		Groundwater	
1	<=	7.9	<=	8.5	<=	24.0
2	8.0	15.4	8.6	16.3	24.1	33.0
3	15.5	21.3	16.4	25.3	33.1	40.3
4	21.4	29.8	25.4	40.1	40.4	49.8
5	>=	29.9	>=	40.2	>=	49.9

Human Health Priority Bin Score: 3.1

Environmental Route Scores

Pathway	Score	Quintile	
Surface water	44.7	4	
Air	1.6	3	

Quintile	Value		
High (H)	4		
Low (L)	3		

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

Environmental Pathway Quintiles - February 2018

Quintile	Surface Water		Α	ir
1	<=	11.3	<=	1.2
2	11.4	24.1	1.3	1.5
3	24.2	32.0	1.6	14.1
4	32.1	49.6	14.2	27.7
5	>=	49.7	>=	27.8

Environmental Priority Bin Score:

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

Site Rank: