SITE HAZARD ASSESSMENT WORKSHEET 1

Summary Score Sheet

SITE INFORMATION:

Name: **Gull Station 224**
Address: **21481 State Route 20**
City: **Sedro Woolley** County: **Skagit** State: **WA** Zip: **98284**
Parcels: **P 37861**
Section/Township/Range: **NE ¼, SW ¼, Section 27, Township 35 North, Range 4 East**
Latitude: **48.49281** Longitude: **-122.28118**
FSID #: **7816417**
CSID #: **7765**

Site scored/ranked for the February 2012 update of the Site Register by Corrina Marote, Skagit County Public Health Department, January 2012.

SITE DESCRIPTION:

The Gull Station 224 is a gas station and convenience store located on State Route 20, adjacent to the western border of the City of Sedro Woolley, WA. A gas station has been on the site since the 1970's. The site has three underground storage tanks containing different grades of unleaded gasoline. The area surrounding the Gull Station 224 site is mixed residential and agriculture. Collins Road borders the property to the east and State Route 20 borders the property to the south.

The land surface of the site is mostly asphalt pavement, with some grassy areas on the north and west sides. The soil is silty sand and silt down to 19 feet. According to boring logs, groundwater was encountered at 11' below ground surface. The site is flat, sloping less than 2% in approximately 700'northwest to Gages Slough. The Skagit River is approximately 4900' to the southeast. The inferred groundwater is presumed to flow to the south and east; however, the direction of flow may fluctuate seasonally. There are 127 drinking water wells and two Group B public water systems listed in the Washington Department of Ecology (Ecology) Well Logs database within the 2 mile buffer zone. The nearest drinking water well is directly across State Route 20 approximately 300' from the site; however, the property and others in the area are served by PUD. None of the wells or water systems within the buffer zone on the south side of the river was considered in this assessment. Refer to Figure 1 for a vicinity and site map.

Camp Dresser & McKee Inc. (CDM) completed a subsurface investigation in January 2005, presumably in response to notification of a leak from the tanks. CDM was tasked with installing 3 monitoring wells and testing the soil borings and monitoring well samples for Total Petroleum Hydrocarbons – gas, diesel, and oil (TPH-G, -D,–O), benzene, toluene, ethylbenzene, total xylenes (BTEX) and lead. Soil and groundwater sample results from two borings and monitoring wells were above MTCA Method A Clean Up levels for TPH-G and benzene. The other boring and monitoring well samples were also above Model Toxics Control Act (MTCA) Method A Clean Up levels for ethylbenzene and xylenes. The detection limit for methyl tertiary-butyl ether (MBTE) was above MTCA Method A Clean Up level for the samples from borings and monitoring wells 1 and 3. See Table 1 for a summary of soil sample results and Table 3 for a summary of groundwater monitoring results.

In March 2005 CDM prepared a report entitled "Hydrocarbon Delineation, Former Gull Station No. 224, 21481 State Route 20, Sedro Woolley, Washington", which attempted to evaluate the extent of the hydrocarbon contamination on the site and potential for migration offsite. CDM sampled soil and groundwater from several test holes in seven locations and had them analyzed for TPH-G and BTEX. Based on the results from these samples, CDM predicted that the contamination plume migrated west and south toward those property boundaries. See Table 2 and Figure 3.

CDM prepared in January 2009 "Groundwater Monitoring Report". This report described the installation and start up of a soil vapor and groundwater extraction remediation system in first quarter of 2006 to remove hydrocarbons from the soil and groundwater. The system has five soil/groundwater extraction wells (EW-1 through EW-5) and two re-infiltration trenches. The groundwater is piped to a treatment enclosure on the northwest side of the building. The air stripper removes hydrocarbons then the clean groundwater is routed to reintroduction galleries located on the front (southeast) side of the building. The galleries become iron-fouled frequently and then the water goes to a surface impoundment in a grassy area to the rear of the building (see Figure 5 for surface water sample results). The soil vapor extraction system has not been operational due to the high water table. Groundwater from MW-3, EW-2, EW-3, and EW-4 has been monitored quarterly since 2010. EW-3 groundwater samples exceeded MTCA Method A Clean Up levels for TPH-G, benzene, ethylbenzene, and xylenes most recently during the 12/1/2011 sampling event (see Table 3 for a summary of results).

I visited the site for the Site Hazard Assessment on January 9, 2012. The store manager was on site but had little knowledge of the monitoring and remediation systems. Those systems are regularly monitored by CDM. I saw several covers that did not have identifiable markings; others appeared to be covers to monitoring wells (Figure 4). During my visit I observed no visible contamination at the location of the former leak or in the adjacent areas. The landscaped vegetation does not appear to have been impacted by any remaining contamination. I visited the site a second time on January 13, 2012 with more information from CDM regarding identifying the various covers in the parking area (see Figure 4).

Since contamination from TPH-G (with benzene), ethylbenzene, and total xylenes is documented to be in groundwater, the groundwater route will be scored.

The Skagit River flows through the eastern and southern part of the two mile buffer zone forming a hydrologic barrier to groundwater; drinking water, irrigation wells, and public water systems on the opposite side of the river were not considered in the groundwater route scoring.

ROUTE SCORES:

Surface Water/Human Health:	NS	Surface Water/Environmental:	NS
Air/Human Health:	NS	Air/Environmental:	NS
Groundwater/Human Health:	55.3		

OVERALL RANK: 2

WORKSHEET 2
Route Documentation

1. **GROUNDWATER ROUTE**

   a. List those substances to be considered for scoring: Source: 2,3,4

   TPH-Gasoline (with benzene), ethylbenzene, total xylene

   b. Explain basis for choice of substance(s) to be used in scoring:
   Documented groundwater contamination with these substances exceeding MTCA Method A Clean Up Levels

   c. List those management units to be considered for scoring: Source: 2,3,4

   Contaminated groundwater

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

   Documented groundwater contamination with these substances exceeding MTCA Method A Clean Up Levels

WORKSHEET 6
Groundwater Route

1.0 SUBSTANCE CHARACTERISTICS

1.2 Human Toxicity

	Substance	Drinking Water Standard (µg/L)	Value	Acute Toxicity (mg/ kg-bw)	Value	Chronic Toxicity (mg/kg/day)	Value	Carcinogenicity		Value
								WOE	PF*	
1	TPH-G (with benzene)	5	8	3306, rat	3	ND	-	A	0.029	5
2	Ethylbenzene	700	4	3500, rat	3	0.1	1	-	-	ND
3	Xylenes	1000	2	50, hmn	10	2	1	-	-	ND

** Potency Factor*

Source: 2, 3, 4

Highest Value: 10
(Max = 10)

Plus 2 Bonus Points? 2

Final Toxicity Value: 12
(Max = 12)

1.2 Mobility (use numbers to refer to above listed substances)	
Cations/Anions [Coefficient of Aqueous Migration (K)] OR	**Solubility (mg/L)**
1=	**1=** 1800 value=3
	2= 150 value=2
	3= 200 value=2

Source: 2, 3, 4
Value: 3
(Max = 3)

1.3 Substance Quantity (volume):	
Explain basis: Unknown quantity, default to 1	Source: 2, 3 **Value: 1** (Max=10)

2.0 MIGRATION POTENTIAL

		Source	Value
2.1	**Containment (explain basis):** Contaminated soil and groundwater from leaking underground storage tank.	2,3,4	**10** (Max = 10)
2.2	**Net precipitation:** (5.6+6.4+5.4+4.2+4.7+3.3)-(.9+.5+.4+.6+1.2+2.1) = 23.9"	7	**3** (Max = 5)
2.3	**Subsurface hydraulic conductivity:** gravelly sand > 10E-3	2,3,4	**3** (Max = 4)
2.4	**Vertical depth to groundwater:** Soil boring on site found groundwater at <25 feet bgs	2,3,4, 9	**8** (Max = 8)

3.0 TARGETS

		Source	Value
3.1	**Groundwater usage:** Private supply with alternate supply available	5, 8, 10	**4** (Max = 10)
3.2	**Distance to nearest drinking water well:** <600 feet	9, 11	**5** (Max = 5)
3.3	**Population served within 2 miles:** √ **pop.** = √435=20	9, 11	**20** (Max = 100)
3.4	**Area irrigated by (groundwater) wells within 2 miles:** **(0.75)*√# acres** = 0.75 * √741.25 = 20.4	7	**21** (Max = 50)

4.0 RELEASE

	Source	Value
Explain basis for scoring a release to groundwater: Documented release to groundwater	2, 3, 4	**5** (Max = 5)

SOURCES USED IN SCORING

1. Skagit County Health Department, Gull Station No. 224 file and field notes, December 2011.
2. CDM, Subsurface Investigation, Former Gull Station No. 224, 21481 State Route 20, Sedro Woolley, WA, January 2005.

3. CDM, Hydrocarbon Delineation, Former Gull Station No. 224, 21481 State Route 20, Sedro Woolley, WA, March 2005.
4. CDM, Groundwater Monitoring Report, Former Gull Station No. 224, 21481 State Route 20, Sedro Woolley, WA, January 2009.
5. Washington Department of Ecology, WARM Scoring Manual, April, 1992.
6. Washington Department of Ecology, Toxicology Database for Use in Washington Ranking Method Scoring, January, 1992.
7. National Weather Service, Washington Climate Data.
8. Washington Department of Ecology, Water Rights Information System (WRIS), 1997.
9. Washington Department of Ecology, Well Logs.
10. Washington Department of Health Public Water Supply Data (SENTRY).
11. Skagit County Mapping, SkagitView Version 5.0, June 2008.

Gull Station 224
21481 State Route 20
Sedro Woolley, WA
FSID 7816417

FIGURES AND TABLES

Figure 1: FSID 7816417 Gull Station 224

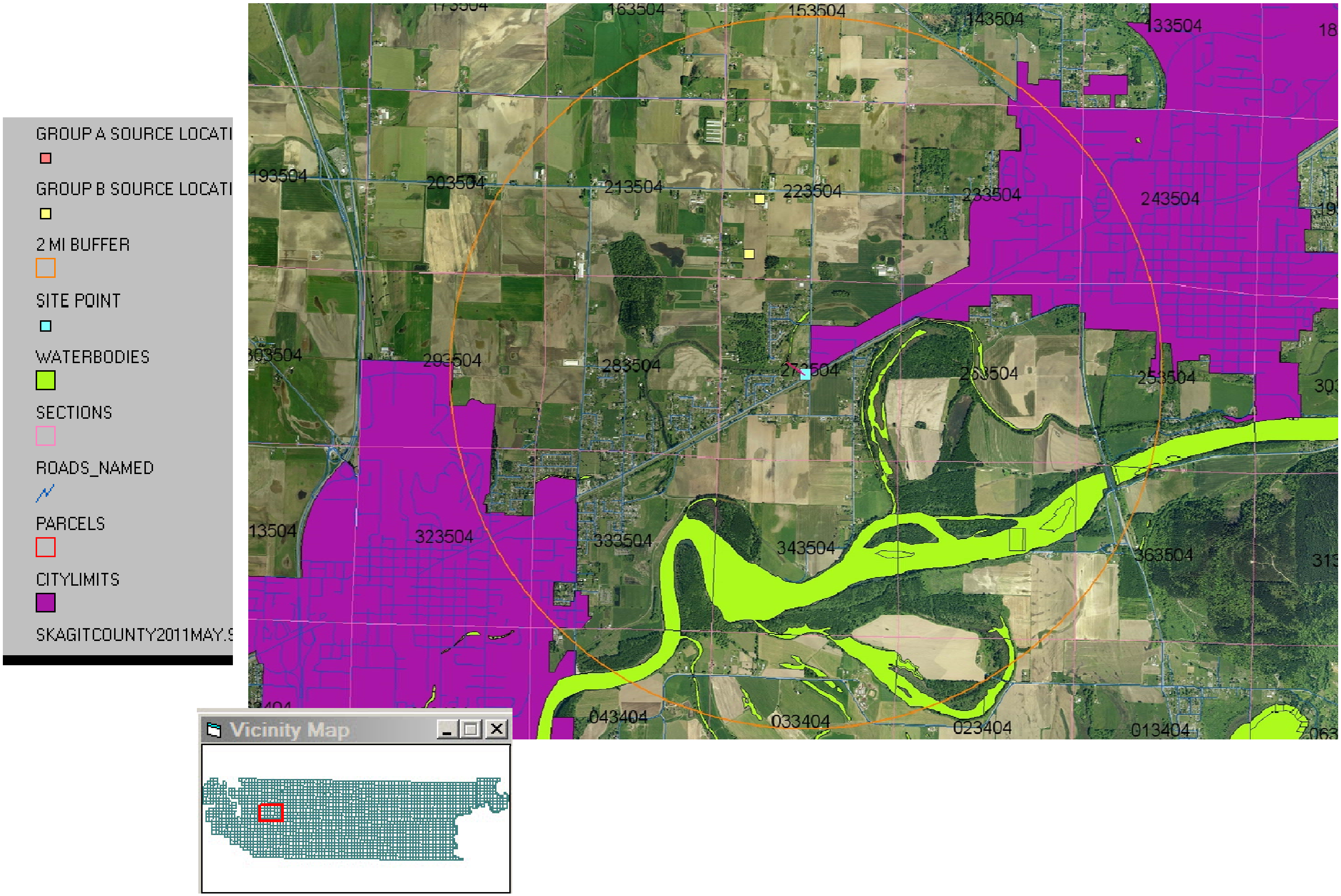

Figure 2: FSID 7816417 Site Map

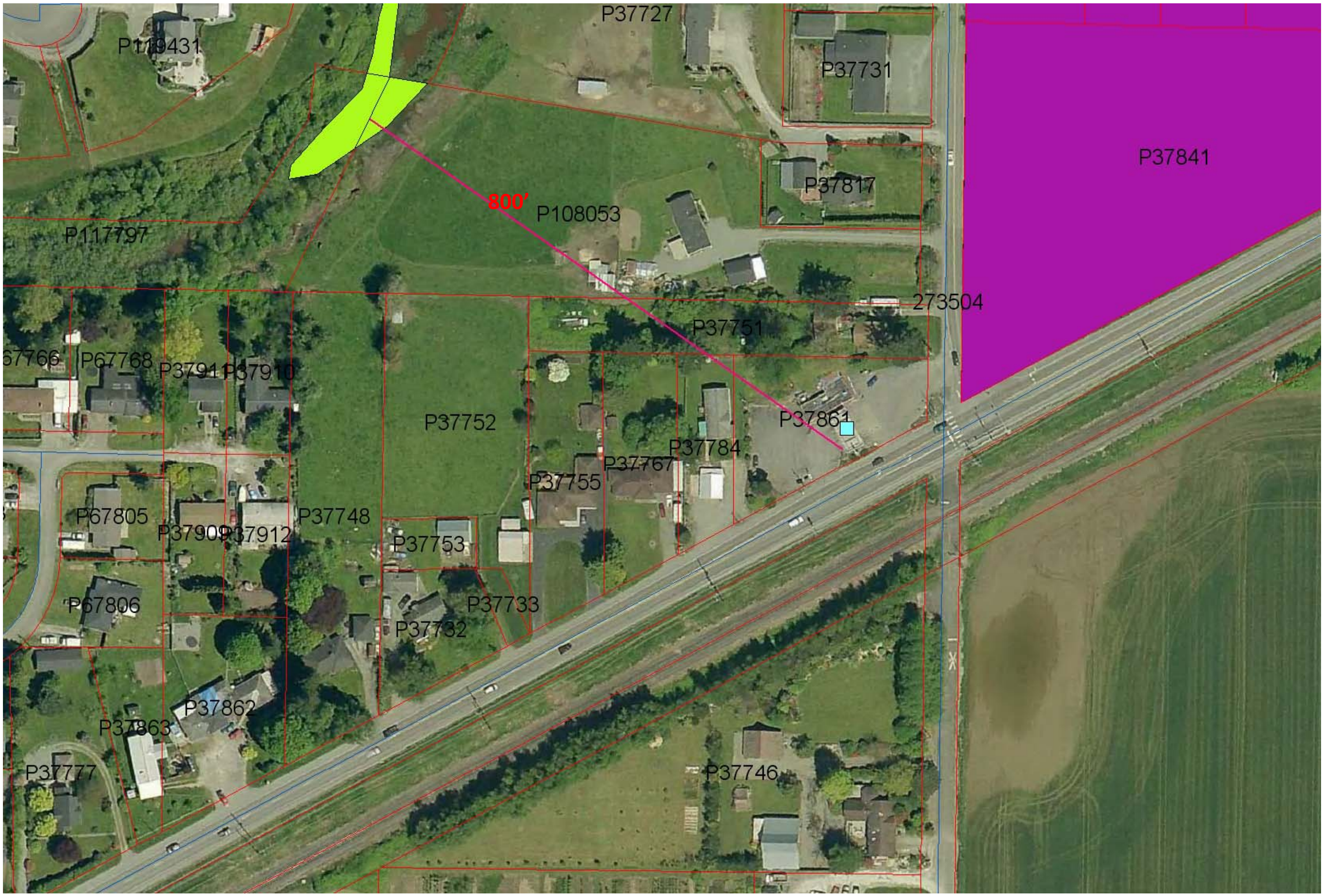

Figure 3: FSID 7816417 Site Diagram

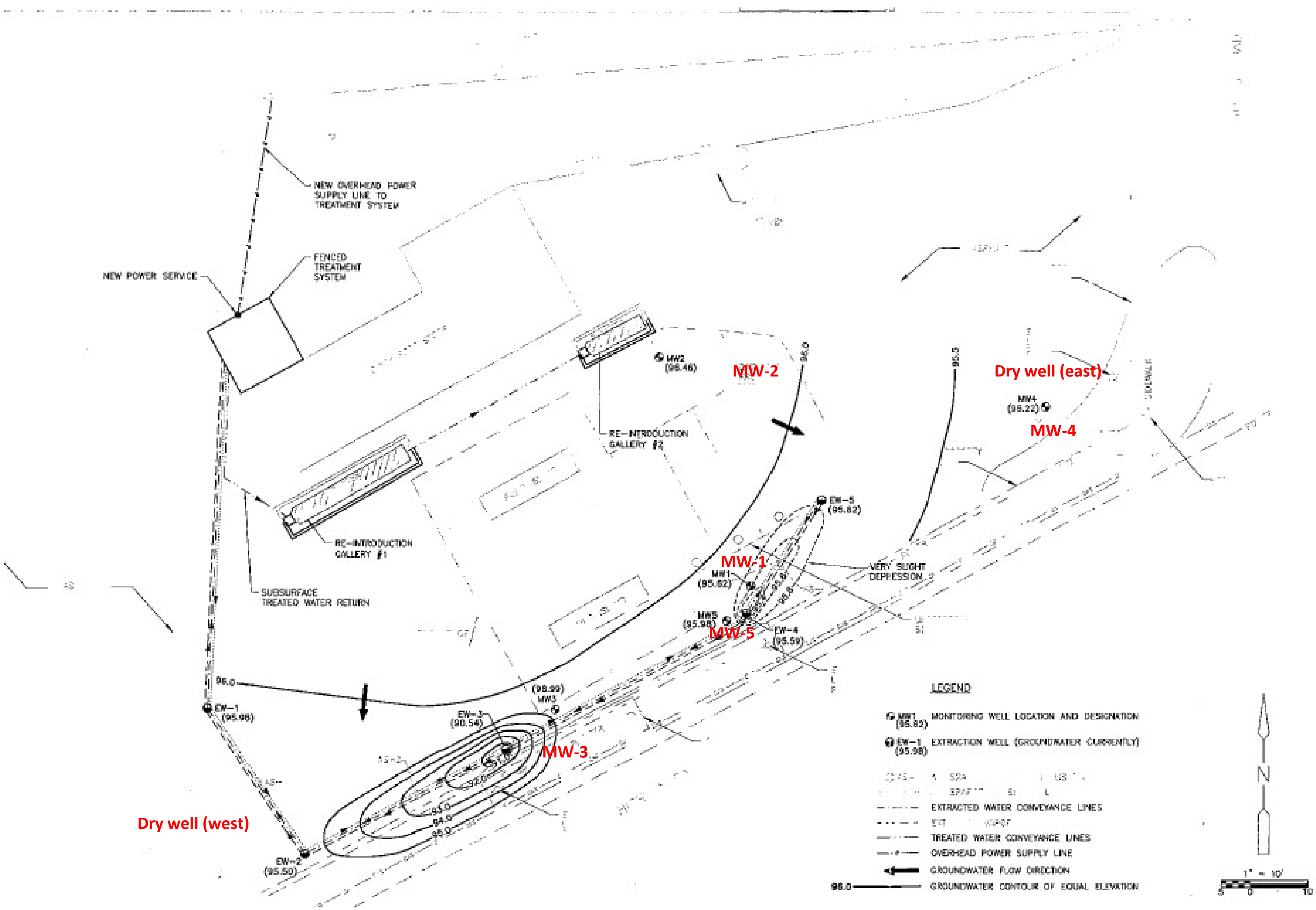

Figure 4: FSID 7816417 Site Visit Pictures

Monitoring Well 2 and Re-introduction galleries

Dry well cover (east)

Monitoring Well 4

Monitoring Well 1

Figure 4: FSID 7816417 Site Visit Pictures (continued)

Figure 4: FSID 7816417 Site Visit Pictures (continued

Figure 5: FSID 7816417 Surface Water Sample Result

EDGE ANALYTICAL LABORATORIES

Burlington WA — Corporate Office | Bellingham WA — Microbiology | Portland OR — Microbiology/Chemistry

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Washington State Department of Health

WATER BACTERIOLOGICAL ANALYSIS

Client Name: Skagit Co Health Dept
700 South 2nd #301
Mount Vernon, WA 98273

Reference Number: 11-19548
Project: Collins Rd Hwy 20 Gull Station

System Name:
System ID Number:
DOH Source Number:
Sample Type:
Sample Purpose: Investigative or Other
Sample Location: 2" Discharge PVC 30' N of NW corner
County:
Sampled By: Dave English
Sampler Phone:

Repeat Sample Number:
Lab Number: 164-43787
Field ID: 1
Date Collected: 12/9/11 14:05
Date Received: 12/9/11
Date Analyzed: 12/13/11 15:32
Report Date: 12/14/11
Comment:
Peer Review:

DOH#	PARAMETER	RESULT	UNITS	Analyst	METHOD	Batch	COMMENT
2	FECAL COLIFORM	<1.8	MPN/100mL	slm	SM9221 E	MTF_1112(	

If the sample is unsatisfactory you can get information at the following health department websites or phone numbers:

Island Co: http://www.islandcounty.net/health/Envh/DrinkingWater/index.htm
San Juan Co: http://www.sanjuanco.com/health/ehewater.aspx
Skagit Co: http://www.skagitcounty.net/drinkingwater or 360-336-9380
Snohomish Co: 425-339-5250
Whatcom Co: http://www.co.whatcom.wa.us/health/environmental/drinking_water/index.jsp
WSDOH: http://www.doh.wa.gov/ehp/dw/Programs/coliform.htm

NOTES:

[illegible]

FORM: [illegible]

Table 1: November 2004 Soil Sample Results

Table 4
Analytical Summary - Soil
Gull /Former Station No. 224
Sedro-Woolley, Washington

Test Method and Analyte	Cleanup Level [a]	Sample I.D. and Date Sampled: B1-12.5' 11/22/04	B2-17.5' 11/22/04	B3-12.5' 11/22/04	B4-10' 11/22/04
		mg/kg			
NWTPH-G MTCA					
Gasoline 100mg/kg	30/100 [b]	390	<7.4	590	<7.3
NWTPH-Dx					
Diesel 2000 mg/kg	2,000	<36	<34	<35	<32
Lube Oil 2000 mg/kg	2,000	<72	<68	<70	<63
EPA Method 8020B					
MBTE 0.1 mg/kg	0.1	<0.16	<0.074	<1.5	<0.073
Benzene 0.03mg/kg	0.03	0.99	<0.020	1.7	<0.020
Ethylbenzene 6 mg/kg	6	2.7	<0.074	10	<0.073
Toluene 7mg/kg	7	<0.16	<0.074	<1.5	<0.073
m,p-Xylene 9 mg/kg	9 [c]	1.4	<0.074	41	<0.073
o-Xylene		<0.16	<0.074	15	<0.073
EPA Method 6010B					
Total Lead 250mg/kg	250	<7.2	--	<7.0	--

Notes:
Boxed values exceed MTCA Method A cleanup levels.
a) Washington Administrative Code Chapter 173-340, Model Toxics Control Act Cleanup Regulation, Method A suggested soil cleanup level for unrestricted land uses; promulgated August 15, 2001.
b) 100 mg/kg without benzene and total of ethylbenzene, toluene, and xylene are less than 1% of the gasoline mixture; 30 mg/kg all other gasoline mixtures.
c) Cleanup level is for total m,p-,& o-xylenes.
mg/kg - milligrams per kilogram.
-- not analyzed.
< - analyte not detected at or greater than the listed concentration.

Table 2: Gull Station 224 February 2005 Results

Table 4
Analytical Summary - Water
Gull /Former Station No. 224
Sedro Woolley, Washington

Test Method and Analyte	Cleanup Level[a]	Monitoring Well/Test Hole I.D., Date Sampled, and Screened Interval (ft bgs)									
		MW1		MW2		MW3		MW4	B5	B5b	B6
		11/23/04	02/03/05	11/23/04	02/03/05	11/23/04	02/03/05	02/03/05	02/03/05	02/03/05	02/03/05
		8 - 18		8 - 18		8 - 18		8 - 18	6 - 10	11 - 15	6 - 10
NWTPH-Gx (µg/L)											
Gasoline	800/1,000[b]	2,100	800	<100	<100	55,000	320	<100	<100	<100	<100
NWTPH-DX (mg/L) µg/L											
Diesel	500 0.5	<0.25	--	<0.20	--	<0.20	--	--	--	--	--
Lube Oil	500 0.5	<0.40	--	<0.41	--	<0.41	--	--	--	--	--
EPA Method 7021B (µg/L)											
MTBE	20	<10	--	<10	--	<10	--	--	--	--	--
Benzene	5	310	70	6.7	<1.0	590	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	700	33	11	6.7	<1.0	2,300	8.5	<1.0	<1.0	<1.0	<1.0
Toluene	1,000	16	<5.0	2.9	<1.0	690	<1.0	<1.0	<1.0	<1.0	<1.0
m,p-Xylene	1,000[c]	74	15	29.0	<1.0	11,000	12	<1.0	<1.0	<1.0	<1.0
o-Xylene		23	<5.0	13.0	<1.0	3,000	3.1	<1.0	<1.0	<1.0	<1.0
EPA Method 200.8 (µg/L)											
Total Lead	15	--	--	--	--	5.4	--	--	--	--	--

CDM

Table 4
Analytical Summary - Water
Gull /Former Station No. 224
Sedro Woolley, Washington

Test Method and Analyte	Cleanup Level[a]	Monitoring Well/Test Hole I.D., Date Sampled, and Screened Interval (ft bgs)				
		B7	B8	B9	B10	B11
		02/03/05	02/03/05	02/03/05	02/03/05	02/03/05
		10 - 14	7 - 11	13 - 17	10 - 14	11 - 15
NWTPH-Gx (µg/L)						
Gasoline	800/1,000[b]	80,000	<100	9,200	<100	5,200
NWTPH-DX (mg/L)						
Diesel	0.5	--	--	--	--	--
Lube Oil	0.5	--	--	--	--	--
EPA Method 7021B (µg/L)						
MTBE	20	--	--	--	--	--
Benzene	5	270	<1.0	110	<1.0	13
Ethylbenzene	700	2,300	<1.0	240	<1.0	38
Toluene	1,000	90	<1.0	190	<1.0	3.0
m,p-Xylene	1,000[c]	7,000	<1.0	590	<1.0	98
o-Xylene		2,700	<1.0	93	<1.0	3.1
EPA Method 200.8 (µg/L)						
Total Lead	15	--	--	--	--	--

Notes:
MW1 - MW4 formerly identified as B1 - B4.
Boxed values exceed MTCA Method A cleanup levels.
a) Washington Administrative Code Chapter 173-340, Model Toxics Control Act Cleanup Regulation, Method A suggested groundwater cleanup level; promulgated August 15, 2001.
b) 800 µg/L if benzene is present in groundwater; 1,000 µg/L if no detectable benzene in groundwater.
c) Cleanup level is 1,000 µg/L for total xylenes.
ft bgs - feet below ground surface
mg/L - milligrams per liter.
µg/L - micrograms per liter.
-- not analyzed.
< - analyte not detected at or greater than the listed concentration.

CDM

Table 3: FSID 7816417 Gull Station 224

Table 3
Analytical Summary - Groundwater
Gull /Former Station No. 224
Sedro Woolley, Washington

Monitoring Well/ Test Hole I.D.	Screened Interval (ft bgs)	Date Sampled	NWTPH-Gx: Gasoline (µg/L)	EPA Method 8021B (µg/L): MTBE	Benzene	Ethylbenzene	Toluene	m,p-Xylene	o-Xylene
Monitoring Wells									
MW1	8 - 18	11/23/04	2,100	<10	310	33	18	74	23
		02/03/05	880	--	79	11	<5.0	15	<5.0
		05/16/05	2,100	--	300	96	19	54	15
		03/12/07	<100	<10	2.4	1.5	<1.0	2.0	<1.0
		01/21/09	<50	--	<1.0	<1.0	<1.0	<3.0 [a]	--
		05/23/11	<100	--	<1.0	<1.0	<1.0	<1.0	<1.0
MW2	8 - 18	11/23/04	<100	<10	5.7	6.7	2.9	29.0	13.0
		02/03/05	<100	--	<1.0	<1.0	<1.0	<1.0	<1.0
		03/12/07	<100	<10	<1.0	<1.0	<1.0	<1.0	<1.0
		05/23/11	<100	--	<1.0	<1.0	<1.0	<1.0	<1.0
MW3	8 - 18	11/23/04	55,000	<10	590	2,300	860	11,000	3,900
		02/03/05	320	--	<1.0	8.5	<1.0	12	3.1
		05/16/05	43,000	--	430	900	120	6,600	1,500
		03/12/07	1,200	<10	<1.0	2.1	<1.0	2.6	63
		01/21/09	91	--	<1.0	1	<1.0	6	--
		02/18/10	<100		<1.0	2	<1.0	7	3.5
		05/10/10	1,200	--	<4.0	57	6.6	210	75
		08/11/10	29,000	--	29	910	80	4,600	1,900
		11/30/10	6,000	--	13	200	20	950	310
		02/09/11	<100	--	<1.0	<1.0	<1.0	<1.0	<1.0
		05/23/11	<100	--	<1.0	<1.0	<1.0	<1.0	1.5
		08/30/11	3,100	--	9.8	130	12	340	220
		12/01/11	<100	--	1.2	<1.0	<1.0	<1.0	5.3
MW4	8 - 18	02/03/05	<100	--	<1.0	<1.0	<1.0	<1.0	<1.0
		04/03/07	<100	<10	<1.0	<1.0	<1.0	<1.0	<1.0
		05/23/11	<100	--	<1.0	<1.0	<1.0	<1.0	<1.0
Prior Geoprobe Test Holes									
B5	6 - 10	02/03/05	<100	--	<1.0	<1.0	<1.0	<1.0	<1.0
B5b	11 - 15	02/03/05	<100	--	<1.0	<1.0	<1.0	<1.0	<1.0
B6	6 - 10	02/03/05	<100	--	<1.0	<1.0	<1.0	<1.0	<1.0
B7	10 - 14	2/3/2005	80,000	--	270	2,300	90	7,000	2,700
B8	7 - 11	2/3/2005	<100	--	<1.0	<1.0	<1.0	<1.0	<1.0
B9	13 - 17	2/3/2005	9,200	--	110	240	190	590	93
B10	10 - 14	2/3/2005	<100	--	<1.0	<1.0	<1.0	<1.0	<1.0
B11	11 - 15	2/3/2005	5,200	--	13	36	3	98	3.1
Extraction Wells									
EW-1	5-20	03/12/07	<100	<10	<1.0	<1.0	<1.0	<1.0	<1.0
		05/23/11	<100	--	<1.0	<1.0	<1.0	<1.0	<1.0
EW-2	5-20	03/12/07	7,600	<10	72	240	120	980	230
		01/21/09	<50	--	<1.0	<1.0	<1.0	<3.0 [a]	--
		02/18/10	<100	--	<1.0	<1.0	<1.0	<1.0	<1.0
		05/10/10	<100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
		08/11/10	740	--	2.1	<1.0	<1.0	<1.0	<1.0
		11/30/10	1,000	--	1.9	<1.0	<1.0	1.30	<1.0
		02/09/11	<100	--	<1.0	<1.0	<1.0	<1.0	<1.0
		05/23/11	<100	--	<1.0	<1.0	<1.0	<1.0	<1.0
		08/30/11	110	--	<1.0	<1.0	<1.0	<1.0	<1.0
		12/01/11	<100	--	<1.0	<1.0	<1.0	<1.0	<1.0

CDM

Table 3
Analytical Summary - Groundwater
Gull /Former Station No. 224
Sedro Woolley, Washington

Monitoring Well/ Test Hole I.D.	Screened Interval (ft bgs)	Date Sampled	NWTPH-Gx: Gasoline (µg/L)	EPA Method 8021B (µg/L): MTBE	Benzene	Ethylbenzene	Toluene	m,p-Xylene	o-Xylene
EW-3	5-25	03/12/07	390	<1.0	<1.0	1.1	<1.0	36	8.0
		01/21/09	22,000	--	120	860	450	4,500 [a]	--
		05/21/09	27,000	--	100	980	270	5,600 [a]	--
		02/18/10	14,000	--	18	410	93	1,700	460
		05/10/10	55,000	--	9.6	160	31	540	130
		08/11/10	17,000	--	20	470	100	2,100	610
		11/30/10	33,000	--	74	1,200	360	5,300	1,500
		02/09/11	16,000	--	33	590	160	1,900	610
		05/23/11	4,300	--	5.8	200	41	840	230
		08/30/11	18,000	--	14	550	69	2,400	610
		12/01/11	26,000	--	35	770	140	3,300	910
EW-4	5-25	03/12/07	420	<10	2.7	4.6	<1.0	31	7.6
		01/21/09	340	--	<1.0	2	<1.0	63 [a]	--
		02/18/10	490	--	2.6	1.4	<1.0	7.4	1.7
		05/10/10	3,900	--	11	63	4.2	230	44
		08/11/10	2,700	--	13	47	<4.0	190	36
		11/30/10	1,300	--	6.4	29	<1.0	47	6.5
		02/09/11	300	--	2.3	3.8	<1.0	8.3	2.3
		05/23/11	<100	--	<1.0	<1.0	<1.0	<1.0	<1.0
		08/30/11	6,600	--	18	130	<4.0	390	52
		12/01/11	7,000	--	13	130	16	470	100
EW-5	5-25	03/12/07	<100	<10	1.3	<1.0	<1.0	1.6	<1.0
		05/23/11	<100	--	<1.0	<1.0	<1.0	<1.0	<1.0
MTCA Method A Cleanup Level [b]			800/1,000 [c]	20	5	700	1,000	1,000 [d]	

Notes:

MW1 - MW4 formerly identified as B1 - B4.
Boxed values exceed MTCA Method A cleanup levels.
a) Value represents total xylenes concentration.
b) Washington Administrative Code Chapter 173-340, Model Toxics Control Act Cleanup Regulation. Method A suggested groundwater cleanup level; promulgated August 15, 2001.
c) 800 µg/L if benzene is present in groundwater; 1,000 µg/L if no detectable benzene in groundwater.
d) Cleanup level is 1,000 µg/L for total xylenes.
< - analyte not detected at or greater than the listed concentration.
ft bgs - feet below ground surface
µg/L - micrograms per liter.
-- not analyzed.

CDM