

TABLES

Table 4-1: Active UST and LUST Sites Within City of Tumwater WHPAs

Map ID (Figure 4-2)	Site	Address	Tank Status	No. Tanks (operational /removed)	Install Date(s)	Removal /Closure Date	Well	Notes
UNDERGROUND STORAGE TANK (UST) SITES								
6-month WHPA								
1	TUMWATER CITY PUBLIC WORKS	7200 NEW MARKET ST SW	Operational	3	1987	--	Port 9/10/15	New and Waste tanks
2	UNITED PARCEL SERVICE-TUMWATER	7383 NEW MARKET ST SW	Operational/Removed	1/1	1995/1972	1996	Port 9/10/15	
3	TEXACO	1441 83D AVE SW	Unknown	Unkn.	Unknown	Unknown	BMS 12/24	Current tank status unknown; 3 tanks removed 1996. Added to CSI in 2015.
1-Year WHPA								
4	AIRPORT FUEL STOP (SMALL & SONS)	8220 CENTER ST SW	Operational	3	1988	--	BMS 12/14	13 gallon diesel spil l4/19/2011. Not operational during December 2014 windshield survey.
5	TUMWATER SHELL	5200 CAPITOL BLVD	Operational/Removed	4/2	1988	1988	Palermo 2-6, 8	1 Tank Closed in Place. Added to CSI in 2015.
5-Year WHPA								
6	PILOT TRAVEL CENTER #151	2430 93RD AVE SW	Operational	6	2007	--	Southwest	160 gallon spill 9/5/2014.
7	COSTCO WHOLESALE 64	5500 LITTLE ROCK RD SW	Operational	4	2000	--	Palermo 2-6, 8	
8	LITTLEROCK SHELL (Albertsons Fuel Center)	701 SW TROSPER RD	Operational	2	1997	--	Palermo 2-6, 8	Added to CSI in 2015.
9	CORNERSTONE CHEVRON #3	7160 CAPITOL BLVD SE	Operational	2	1999	--	Port 9/10/15	20 gallon spill 2002
10	RUNWAY II TEXACO	7219 OLD HWY 99 SE	Operational	3	1994	--	Port 9/10/15	10 gal spill 2002. Added to CSI in 2015.
11	LABOR & INDUSTRIES BLDG	7273 LINDERSON WAY SW	Operational	1	1992	--	Port 9/10/15	
12	OLYMPIC REGION HEADQUARTERS SITE (WA DOT DIST 3)	5720 CAPITOL BLVD	Operational/Removed	2/5	1994/1964	1996	Palermo 2-6, 8	2 operational, 2 closed in place, 3 removed
LEAKING UNDERGROUND STORAGE TANK (LUST) SITES								
5-Year WHPA								
13	RESTOVER TRUCK STOP	2725 93RD AVE SW	Operational/Removed	5/1	1991 (upgrade)	1991	Southwest	Cleanup complete 1991 (Ecology supervised); active monitoring
14	FRED MEYER FUEL CENTER # 659 (formerly BP 03158; Circle K)	501 TROSPER RD SW	Operational/Removed	4/2	2013	2013	Palermo 2-6, 8	LUST Cleanup started 12/2007. Added to CSI in 2015. Current status unknown.
15	CHEVRON 90956	670 TROSPER RD SW	Operational/Removed	3/5	1964/1989	1996	Palermo 2-6, 8	Former LUST site (1989), NFA 11/2009; Small quantity spills reported
16	TUMWATER TRANSPORTATION FACILITY	660 ISRAEL RD	Unknown	Unkn.	Unknown	Unknown	Port 9/10/15	LUST- NFA 6/29/1999. Added to CSI in 2015.
10-Year WHPA								
17	THURSTON CO. ROADS & TRANS. SERVICES DEPT	9605 TILLEY RD SW	Operational/Removed	5/2	1981	1996	BMS/Port/Southwest	LUST - NFA 9/2012; 15 gal petroleum spill 2011. Added to CSI in 2015.
18	TUMWATER DELI MART	6131 CAPITOL BLVD	Operational/Removed	3/2	1997/1981	1997	Palermo 2-6, 8	Cleanup complete 2004 (Ecology supervised); active monitoring

Green highlight indicates site warrants further investigation due to limited information.

"--" = unknown

CSI = Contaminant Source Inventory.

NFA- "No Further Action" determination issued by Department of Ecology.

Table 4-2: Potentially Hazardous Sites Within City of Tumwater WHPA

Map ID (Figure 4-2)	NAME	ADDRESS	Notes/Substance	Contaminant Type
6-Month WHPA				
19	PACIFIC COCA COLA BOTTLING CO	500 SIMMONS LN SE	Trade materials (e.g. solvents); Auto maintenance supplies	Petroleum Products
20	TUMWATER FIRE STATION 1	7007 CAPITAL BLVD	fire suppressants; vehicle maintenance materials and wastes	
21	SWIFT TRUCKING	7511 NEW MARKET ST SW	Automotive maintenance products/waste; small spill reported 2007	
22	UNITED PARCEL SERVICE TUMWATER	7383 NEW MARKET ST SW	Fleet location	
23	TUMWATER SCHOOL DISTRICT - FLEET MAINT	2020 80TH AVE SW	Facility maintenance products	
21 (b)	WINDFALL LUMBER	711 TUMWATER BLVD	Glued wood products (use polyvinyl chloride)	Paints / solvents / adhesives
24	NEW MARKET VOCATIONAL SKILLS CENTER	7299 NEW MARKET ST	Automotive wastes and construction materials	
25	WASHINGTON STATE PRINTING DEPARTMENT	7580 NEW MARKET STREET SW	printing products and wastes	Other
1-Year WHPA				
26	SOUTHGATE DRY CLEANERS	5141 CAPITAL BLVD	Chlorinated solvents	Cleaners
27	PRECISION CARPET CLEANING	6930 6TH AVE SW	Historical Carpet Cleaners; trade solvents	
28	TSA OLYMPIA REGIONAL AIRPORT	7702 TERMINAL ST TSA	Large quantity petroleum handling	Petroleum Products
29	DAPAUH CHIP LLC	8200 KIMMIE RD	Vehicle/equipment maintenance products/wastes	
30	FOUR STAR ACCESSORY OVERHAUL	7711 NEW MARKET ST SW	Aviation Repair; Methyl Ethyl Ketone, used oil, flammables	Paints/solvents
31	GRAND AUTO INC TUMWATER	5109F CAPITOL BLVD	Automotive hazardous materials	
32	TUMWATER LUMBER COMPANY (International Wood	8277 CENTER ST. SW	AKA Welco Lumber; CSCL NFA	
33	CHIROPRACTIC ARTS	100 RUBY ST SE	Medical imaging-related wastes	Medical Waste
34	TUMWATER PRINTING	7675 NEW MARKET ST SW	printing products and wastes	Other
35	SOUTHGATE ACE HARDWARE	5121 CAPITOL BLVD S	Facility maintenance products	
5-Year WHPA				
36	SOLOY LLC (Aircraft Supply)	450 PAT KENNEDY WAY SW	Petroleum, corrosives, solvents; reported handling violations (2007)	Petroleum Products
37	TUMWATER TRANSPORTATION FACILITY	660 ISRAEL RD	Vehicle maintenance products/waste; former LUST; UST status unknown	
38	JIFFY LUBE STORE 2754	5101 CAPITOL BLVD S	Automotive hazard materials; UST removed, LUST NFA 1993	
39	CITY OF TUMWATER PUBLIC WORKS	555 ISRAEL RD SW	Vehicle maintenance products/wastes	
40	TIRES INC (formerly Freedom Auto)	5605 CAPITOL BLVD	Vehicle maintenance products/wastes	
41	K & M MOBILE REPAIR OF TUMWATER	5701 S CAPITOL BLVD	Vehicle maintenance products/wastes	
42	WA DFW MAINTENANCE YARD	700 AIRDUSTRIAL WAY SW	Vehicle maintenance products/wastes; coluntary cleanup NFA 7/1997	
43	WA WSP ARMSTRONG RD	8611 ARMSTRONG RD SW	Vehicle maintenance supplies/waste	
44	SHELLER DIESEL INC	9144 KIMMIE SW	Vehicle maintenance supplies/waste	
45	JOHNSON AND MADDOX	2209 93RD AVE SW	Facility maintenance products	
46	THERMAL SUPPLY, INC	715 78TH AVE SW	Used oils, new oil products	
47	RUNDEL PRODUCTS INC	7725 CENTER ST	Now Evergreen Food Products (vending)	Paints/solvents
48	CARDINAL CG	700 PAT KENNEDY WAY SW	Glass coating materials, including solvents	
49	BLUE MOUNTAIN COMMERCIAL DEVELOPMENT	9227 BLUE MOUNTAIN LN SW	Construction materials	
50	INTERIOR WOOD PRODUCTS	9705 LATHROP INDUSTRIAL DR SW	Wood processing supplies; Paints/Solvents	
51	COASTAL NAIL AND STAPLE	715 78TH AVE SW	Oils and solvents	
52	JOHNSON MACHINE	1510 93RD AVE SW	Machine shop-related wastes; aerials indicate derelict vehicles	
53	LINE-X OF OLYMPIA	7920 CENTER ST SW SUITE #C	Bedliner products (A+B composite)	
54	SOUTH SOUND STEEL & RECYCLING	9546 LATHROP INDUSTRIAL DR SW	Vehicle maint. Supplies/waste; recycling byproducts	
55	DESCHUTES ANIMAL CLINIC INC PS	7248 CAPITOL BLVD	Medical wastes; CSCL NFA	
56	COSTCO	5400 LITTLEROCK ROAD	Consumer-oriented hazardous products; USTs at fuel station	
57	FRED MEYER 659	555 TROSPER RD SW	Consumer-oriented hazardous products	
58	WA GA OFFICE SYSTEMS SU	6015 CAPITOL BLVD	Trade materials (e.g. toner)	Other
59	WA DOC MUNI SW	7345 LINDERSON WAY SW	Department of Corrections - UIC and cleaning supplies	
60	AIRPORT GOLF CENTER	8080 CENTER ST SW	Facility maintenance products	
61	ASKA CORP	819 78TH AVE SW	Facility maintenance products	
62	DAVES AUTOMOTIVE REPAIR	115 GERTH ST SW	Historical Auto Station as of 2011 - confirmed active	Petroleum Products
63	FREEDOM AUTO	5605 CAPITOL BLVD SW	Historical auto station 2009 - confirmed active	
10-Year WHPA				
64	New World Dry Cleaner	855 TROSPER RD SW	Historical Dry Cleaners 2012	Cleaners
65	SYGITOWICZ AUTO SERVICE	5848 LITTLE ROCK RD SW	Vehicle maintenance products/wastes; UST removed 2001	Petroleum Products
66	TUMWATER PICKUP PARTS	5945 LITTLEROCK RD	Vehicle maintenance products/wastes; State Cleanup Site - NFA 1995	
67	UNITED RENTALS NORTHWEST INC	6070 LINDERSON WAY	Vehicle/equipment maintenance products; UST removed 2008	
68	HARBOR WHOLESALE GROCERY	7845 CENTER ST SW	Facility maintenance products	
69	TECTONIX (Aluma)	1850 93RD AVE SW	New and used hydraulic oils	
70	APEX KARTING	7960 CENTER ST SW	Go-kart maintenance products/wastes, fuel	Paints/solvents
71	ALBANY INTERNATIONAL	5700 LITTLEROCK RD	Fabric coating; Solvents, metals	
72	WHITNEY'S AUCTIONEERS	5725 LITTLEROCK SW	Vehicle maintenance products	
73	FLOOR EXCHANGE	6300 LINDERSON WAY	Floor install/maintenance products (adhesives); suspected fuel oil tank (spills)	
74	WA AGR THURSTON 1 PESTICIDE COLL	9700 TILLEY RD SW	Pesticides (disposal)	
75	JOHNS AUTO WRECKING	411 93RD AVE SE	CSCL; Petroleum (PAH) contaminants; cleanup started, active monitoring	Recycling/waste
76	LOTT	5705 LITTLEROCK RD	Water treatment; 800 gallon digestors (organics)	Nitrate/Organics
77	NORTHWEST CHIROPRACTIC CENTER	6346 LITTLEROCK RD SW	Medical imaging-related wastes	Medical Waste
78	TROSPER DENTAL CARE	925 TROSPER RD SW	Dental wastes	
79	RUSSELL, STEPHEN DDS	6344 LITTLEROCK RD SW	Dental wastes	
80	BANNER FAMILY DENTAL	6340 LITTLEROCK RD SW	Dental wastes	
81	TERRY HESS, DPM	6336 LITTLEROCK RD SW	Medical imaging-related wastes	
82	WALMART STORE 3850-00	5900 LITTLEROCK RD SW	Consumer-oriented hazardous products	Other
83	STROBLIZED AUTO	9747 HART RD SE	Historical auto station 2005 - obvious informal auto shop	Petroleum Products

Green highlight indicates site warrants further investigation due to limited information and potential for contamination

NFA = "No Further Action" determination issued by Department of Ecology
 CSCL = "Confirmed and Suspected Contaminated Site Listing"

Table 4-3: Inactive UST and LUST Sites

Map ID	Site	Address	Tank Status	No. Tanks	Removal Date ¹	Type	Relevant Well	Notes
6-Month WHPA								
84	PACIFIC COCA COLA BOTTLING	500 SIMMONS LN SE	Removed	1	1996	UST	Port 9/10/15	
85	NEW MARKET VOCATIONAL SKILLS CENTER	7299 NEW MARKET ST	Removed	1	1999		Port 9/10/15	
86	WA STATE PRINTING DEPARTMENT	7580 NEW MARKET ST SW	Removed	1	1996		Port 9/10/15	Handle off-specification, aged or surplus organics
87	GADCO	8239 KIMMIE RD SW	Removed	2	1996		BMS 11/12	
1-Year WHPA								
88	POAGES AUTOMOTIVE TOWING IN	5403 CAPITOL BLVD	Removed	2	1996	LUST	Palermo 2-6, 8	
89	PHILLIPS PROPERTY	6920 CAPITOL BLVD SE	Removed	2	1999		Port 11	
90	DAPPAUL CHIP LLC	8200 KIMMIE RD	Removed	2	1996		BMS 12/14	
91	JACK N THE BOX (DREWS MOBIL)	110 TROSPER RD	Removed	3	1996		Palermo 2-6, 8	LUST NFA 1991 (reported clean)
92	JACK N THE BOX (DREWS MOBIL)	110 TROSPER RD	Removed	3	1996	Palermo 2-6, 8	LUST NFA 1991 (reported clean)	
93	7-ELEVEN 2303-14479-M	5310 CAPITOL BLVD S	Removed	3	1996	Palermo 2-6, 8	LUST Cleanup started 5/2008; site re-purposed (NFA not listed)	
94	EQUILON ENTERPRISES LLC (SHELL OIL)	7370 LINDERSON WAY SW	Removed	4	1996	Port 9/10/15	LUST - NFA 2/5/2013	
95	TUMWATER LUMBER COMPANY	8277 CENTER ST SW	Removed	3	1996	BMS 12/14	LUST- NFA 8/15/2012 (reported clean)	
5-Year WHPA								
96	JOHNSON & MADDOX CONSTRUCTION	2201 93RD AVE SW	Removed	2	1996	UST	Southwest	
97	HYTEC TUMWATER	711 AIRDUSTRIAL WAY SW	Removed	1	1996		Port 9/10/15	HazWaste generator; independent cleanup; NFA 1996
98	OLYMPIA AIRPORT VORTAC SITE	7643 Old Highway 99 SE	Removed	1	1996	LUST	Port 9/10/15	LUST reported clean 1/5/94
99	DESCHUTES ANIMAL CLINIC INC PS	7248 CAPITOL BLVD	Closed in Place /Removed	2	1996		Port 9/10/15	LUST NFA 5/21/2007
100	SHELL STATION 93RD AVE SW (Pilot Travel)	2440 93RD AVE SW	Removed	5	1996		Southwest	LUST- NFA 9/9/1992 (reported clean); property transfer?
101	OLYMPIA AIRPORT VORTAC SITE	7643 Old Highway 99 SE	Removed	1	1996		Port 9/10/15	LUST reported clean 1/5/94
102	DESCHUTES ANIMAL CLINIC INC PS	7248 CAPITOL BLVD	Closed in Place /Removed	2	1996	Port 9/10/15	LUST NFA 5/21/2007	
10-Year WHPA								
103	HENRY C & SUSAN ENGELKE	10043 TILLEY RD S	Closed in Place	1	1996	UST	BMS/Port/Southwest	
104	DAIRY FRESH FARMS INC	9636 BLOMBERG RD	Closed in Place	1	1996		BMS/Port/Southwest	Potential Nitrate source
105	SYGITOWICZ AUTO SERVICE	5848 LITTLE ROCK RD SW	Removed	1	1996		Palermo 2-6, 8	
106	UNITED RENTALS NORTHWEST INC	6070 LINDERSON WAY	Removed	2	2008	Palermo 2-6, 8		
107	BLACK HILLS DISTRIBUTING	6080 LINDERSON WAY	Removed	2	1996	Palermo 2-6, 8		
108	JIFFY LUBE STORE 2754	5101 CAPITOL BLVD S	Removed	4	1996	LUST	Palermo 2-6, 8	LUST - NFA 12/1993
109	JIFFY LUBE STORE 2754	5101 CAPITOL BLVD S	Removed	4	1996		Palermo 2-6, 8	LUST - NFA 12/1993
110	MERCHANTS MOVING & STORAGE (PUGET SC)	5880 LINDERSON WAY SW	Removed	2	1996		Palermo 2-6, 8	LUST NFA 8/15/2012 (reported clean)
111	PALERMO VALLEY LIFT STATION	M St	Removed	1	1999	UST	--	
112	OLYMPIC STRUCTURES INC	2001 93RD AVE SW	Removed	2	1998		--	

Notes: 1. *Removal Date* may reflect the year in which the database was updated, not necessarily removal date.

Table 4-4: Hazardous Sites Removed from the Active Sites List

Map ID (Figure 4-3)	NAME	ADDRESS	Notes/Reason for Removal
6-Month WHPA			
113	WA STATE PARK BROOKS MEMORIAL WWTP	7150 CLEANWATER LN SW	Former site of WWTP; building for sale/lease
114	UNKNOWN	7007 CAPITOL BLVD	small contained fire station spill 2000
115	WA DOH - RADIUM	7171 CLEARWATER LN, BLDG 5	Assumed high radium in drinking water; address listed as DOH
116	GADCO	8239 KIMMIE RD SW	Garage Door parts
1-Year WHPA			
117	PHILLIPS PROPERTY	6920 CAPITOL BLVD SE	2 USTs removed 1999; property use unknown
118	DREW'S MOBILE STATION	TROSPER ROAD & CAPITOL	Petroleum spill/cleanup 1991; existence uncertain (presumed Jack in B)
119	7-ELEVEN 2303-14479-M	5310 CAPITOL BLVD S	LUST Cleanup started 5/2008; current status unknown
120	JACK N THE BOX DREWS MOBIL	110 TROSPER RD	Legacy UST/LUST
121		5403 CAPITOL BLVD SW	Poages Auto
122	BIGTOYS INC	7721 NEW MARKET ST SW	playground equipment
123	OWNER OF RENTAL HOUSE	8640 BERNS DRIVE SW	Fuel oil spill 2000 (unknown quantity)
124	TUMWATER CITY WELL 15	N OF AIRDUSTRIAL WAY	Former TCE contamination
5-Year WHPA			
125	WEST COAST CUSTOM AUTO (QUALITY AUTO)	109 93RD AVE SW	Historical Auto station as of 2006 - confirmed inactive
126	WH PORTER (HYTEC)	711 AIRDUSTRIAL WAY	former fiberglass waste disposal site; cleaned up; NFA date not given
127		101 ISRAEL RD SE	Unknown spill inside building/structure
128	TRANSIENT	1620 74TH AVE SW	chemical spill 2001 - no further details
129	SHELL STATION 93RD AVE SW	2440 93RD AVE SW	Tanks removed, NFA 1992
130	ENVIRON INVEST (Now FED EX)	7272 CLEANWATER LANE BOATSHED	Former boat maint; current Fed Ex facility
131	RUNDEL PRODUCTS INC	7725 CENTER ST	Now Evergreen Food Products (vending)
132		816 93RD AVENUE SW	5 gallon spill reported 2006 (unknown material)
133	WA WSP ARMSTRONG	8623 ARMSTRONG RD SW	Duplicate (incorrect address)
134	ENVIRONMENTAL & TECH SPECIALISTS	9730 LATHROP INDUSTRIAL DR STE	Consulting firm
135	OLYMPIA AIRPORT VORTAC SITE	LAT 46 58 18 LONG 122 54	Former LUST site, reported clean 1994
136	MARTIN FURNITURE MANUFACTURING	UNIT A 9730 LATHROP INDUSTRIAL DR	Manufacturing products, e.g. solvents
137	NORTHWEST PIPELINE GP	2944 93RD AVE	Air quality (nitrous oxides)
138	OLYMPIC PIPE LINE CO OLYMPIA DF	11TH ST SW & E CENTER ST	Handler of oils, fuels, solvents; decommissioned 2010
139	OLYMPIA ARMY AIRFIELD	145 - 78TH AVE SW	Likely historical spills - NFA 2004 (Assessment in 2001)
140	SPILL	2421 93RD AVENUE SW	30 gal petroleum (2009), unknown chemical 2012
10-Year WHPA			
141	DAIRY FRESH FARMS INC	9636 BLOMBERG RD	Distribution center (UST Removed)
142	LOUS MOBILE AUTO SRVC & MNTNNC	10126 CASE RD SW	Historical Auto station as of 2003 - confirmed inactive
143	BLACK HILLS DISTRIBUTING	6080 LINDERSON WAY	UST removed; company no longer at this location
144	PALERMO VALLEY LIFT STATION	M ST	Former UST (removed)
145	HENRY C & SUSAN ENGELKE	10043 TILLEY RD S	Removed UST- presumed heating oil
146	HOME DEPOT 4724	1101 KINGSWOOD DR SW	Consumer-oriented hazardous products
147	CAPITOL CRUNCH AUTO DISMANTLING	1510 93RD RD SW	duplicate
148	WDOT TUMWATER S 2ND AVE	1655 S 2ND AVE	duplicate
149	WSDOT MATERIALS LAB	1655 SECOND AVE SE	duplicate
150		1700 LAKE PARK DRIVE SOUTHWEST	chemical spill 2002- no further details
151		437 93RD AVE SE	Alias John's auto wrecking
152	GULL #256	5101 CAPITOL BOULEVARD	1992 spill; now Jiffy Lube
153		5115 CAPITOL BLVD SW	Actually Juffly Lube #2754
154	MECA AUTO REPAIR	5701 CAPITOL BLVD SW	Historical auto station as of 2008 (NOW K&M)
155	PUGET SOUND ENERGY	5737 LINDERSON WAY	Now Merchant's Move/Store, former LUST (NFA 2012)
156	VACANT PROPERTY	5880 LINDERSON WAY	Now Merchant's Move/Store, former LUST (NFA 2012)
157	PUGET SOUND ENERGY	5880 LINDERSON WAY SW	Now Merchant's Move/Store, former LUST (NFA 2012)
158		6020 CAPITOL BLVD SE	Historical Auto Station 2012 (Tumwater Automotive)
159	FRED MEYER	6304 LITTLE ROCK ROAD SW	spill from FRED MEYER vehicle; impermeable containment
160	ALBERTSONS #407	705 TROSPER RD SW	grocery
161		7707 PRINE DRIVE SOUTHWEST	chemical spill 2002- no further details
162	CHARLES R WALKER RESIDENCE	9430 CASE RD SW LOT NO 12B	Drug lab 1999
163	PROS TOUCH AUTO	5848 LITTLE ROCK RD SW	Historical auto station as of 2001 (Now Sygitowicz)
164	ROW ALONG 5800 LITTLE ROCK RD SW	5800 LITTLE ROCK RD SW	State cleanup site; unknown contaminant- NFA 2001
165	AMERICAN FIBERGLASS	8904 KIMMIE RD	Solvents; Soil removed (Ecology); NFA 4/1993
166	LOTT	5705 LITTLE ROCK RD	Water treatment; 800 gallon digestors (organics)
167	TUMWATER MIDDLE SCHOOL	6335 LITTLE ROCK RD SW	Chemistry laboratory-related wastes (v. low risk)

Table 4-5: Estimated Septic System Contributions to Nitrate Concentrations by Wellfield

Well / Wellfield (installed capacity ¹)	Estimated Septic System Contributions to Nitrate Concentrations by Wellfield											
	6-month			1-year			5-year			10-year		
	City Limits	Total ³	NO ₃ (mg/L) ⁴	City Limits	Total ³	NO ₃ (mg/L) ⁴	City Limits	Total ³	NO ₃ (mg/L) ⁴	City Limits	Total ³	NO ₃ (mg/L) ⁴
BMS 12/14 (4.4 mgd)	2	11	0.03	6	38	0.10	35	234	0.65	78	499	1.38
Lakeland (0.24 mgd ⁵)	0	5	0.25	0	10	0.51	0	25	1.26	0	42	2.13
Lathrop (0.07 mgd ⁵)	0	0	<0.01	0	1	0.17	0	5	0.87	0	9	1.56
Palermo 3-6, 8,16 (2.9 mgd)	0	0	<0.01	0	0	<0.01	0	0	<0.01	0	11	0.05
Port (2.8 mgd)	0	0	<0.01	0	0	<0.01	0	0	<0.01	11	265	1.15
Southwest (3.2 mgd)	0	12	0.05	0	30	0.11	19	91	0.35	30	356	1.35

1. Installed well or wellfield capacity, in million gallons per day.
2. Estimated number of septic systems within each WHPA; cumulative (e.g. the 1-year WHPA includes all sources within 6-month WHPA, etc.).
3. Includes septic systems within City limits and within Thurston County (i.e. the difference between *City Limits* and *Total* represents the number of septic systems within the WHPA that are located outside of City limits).
4. Estimated nitrate-nitrogen concentration from septic systems, based on average 4-person household (i.e., ~17 kg total nitrogen/household/year; EPA 2002)
5. *Installed capacity* is reported from WA DOH database

Table 4-6: Septic Systems within 6-month Time of Travel Boundaries

Affected Well	Parcel No.	Owner Name	Mailing Address	City	STATE	ZIP
BMS 11/12	09230021000	JOHNSON, LARRY H & LAURA A	PO BOX 14610	TUMWATER	WA	98511
	09520001000					
	12715210201	HECK TSTEE, EDWARD N & RITA J	9610 KIMMIE ST SW	OLYMPIA	WA	98512
	12715210201					
	12715210300	SKINNER TRUSTEE, CAROL J	353 S HAINES	BOISE	ID	83712
	12715220100	WILLEFORD, GREGORY L	8310 KIMMIE ST SW	OLYMPIA	WA	98512
	12715220300	BLACK, VICTOR	4125 HARRIS RD SE	PORT ORCHARD	WA	98366-5925
	12715220501	DECK, TONY & DAWN	8402 KIMMIE ST SW	OLYMPIA	WA	98512
	12715220502	JOHNSON, GEORGE	8406 KIMMIE ST SW	OLYMPIA	WA	98512
	12715220503	OLSON, DENNIS	8328 KIMMIE ST SW	OLYMPIA	WA	98512
	12715220601	ROUTLEY, MICHAEL D & PEGGY	1947 83RD AVE SW	OLYMPIA	WA	98512
12715220604	GARAY, DAVID B & BETTE JO	2031 83RD AVE SW	TUMWATER	WA	98512	
12715220605	MARSH, CHRISTOPHER D	4931 KEATING RD NW	OLYMPIA	WA	98502	
Southwest	09520007008	SHATTUCK, DENNIS A	2921 85TH AVE SW	OLYMPIA	WA	98512
	09520007011	SCOTT, JOSEPH J	2941 85TH AVE SW	OLYMPIA	WA	98512
	09520007016	BOURGALT, PHILIP A & SALLY A	2833 85TH AVE SW	OLYMPIA	WA	98512
	12716310000	BLACK HILLS COMM SOCCER COMPLEX	PO BOX 4439	TUMWATER	WA	98501-4439
	12716320201	GATES, PATRICK E	PO BOX 386	OLYMPIA	WA	98507
	12716320300	PACIFIC PRE-FINISH INC	8848 KIMMIE ST SW	OLYMPIA	WA	98512
	12716320302	GROSSMANN, GARY P	8916 BLOMBERG ST SW	OLYMPIA	WA	98512
	12716320501	LUHR, MERLYN & BARBARA	8948 BLOMBERG ST SW	OLYMPIA	WA	98512
	12716320502	TRIPLETT, DENNIS L	8914 BLOMBERG ST SW	OLYMPIA	WA	98512
	12716320502					
	12716320502	TRIPLETT, DENNIS L	8914 BLOMBERG ST SW	OLYMPIA	WA	98512
12716340500	BLACK HILLS PROPERTIES LLC	1205 ESHOM RD	CENTRALIA	WA	98531	

Notes:

A full listing of properties listed as having septic systems can be found in the GIS database provided to the City

Table 4-7: Heating oil tanks within WHPAs

Map ID (Figure 4-3)	Owner	Address	Affected Wells	
6-Month WHPA				
168	RIDEOUT, TAMMI	5005 SE RAINIER AVE	Palermo 2-6, 8	
169	KAUZLORIC, PHILIP A	5022 SE PALERMO AV		
170	ROBINSON, ROGER S & DONITA A	216 RUBY ST SE		
1-Year WHPA				
171	MARQUETTE, JAMES D & KIMBERLY K	226 LEE ST SE		
172	HEDLIND, DAVID D	213 LEE ST SE		
173	TORRES, CONRAD A	207 LEE ST SE		
5-Year WHPA				
174	PORT OF OLYMPIA	450 NORTH ST SE	BMS 12/14	
175	JAMISON, ROBERT D & SHARON	231 SE M ST	Palermo 2-6, 8	
176	MOSS, THELMA A	565 SE M ST		
177	JONES, WILLIAM H & NICOLE L	315 HAZELHURST DR SE		
10-Year WHPA				
178	PAULSEN, JEFFERY L	203 W ST W		
179	HERNANDEZ, LILLY M	312 HAZELHURST DR SE		
180	SANDERS, MICHAEL W	1715 LAKE PARK DR SW		
181	RICHARDSON, GUY W & SUSAN M	911 MILLER ST SW		
182	CARRIER TRUSTEES, RODNEY J & SHARON L	6003 MARGO PL SE		
183	BELCHER, LESLIE W TRUST	316 Y ST SW		

Table 4-8: Stormwater Infiltration UIC Wells within WHPAs

Map ID	NAME	ADDRESS	Affected Well
6-Month WHPA			
184	NEW MARKET SKILLS CENTER	7299 NEW MARKET STREET SW	Port 9/10/15
185	CITY OF TUMWATER		Palermo 2-6, 8
186			
187	UNITED PARCEL SERVICE	7383 NEW MARKET ST SW	Port 9/10/15
1-Year WHPA			
188	CITY OF TUMWATER		Palermo 2-6, 8
189	DAPPAUL CHIP LLC	8200 KIMMIE RD	BMS 12/14
5-Year WHPA			
190	EXTRA STORAGE, LLC	1045 93RD AVE SW	BMS 12/14
191	PUGET SOUND ENERGY AIRPORT SUBSTATION	910 93RD AVENUE SW	
192			
193	BLUE MOUNTAIN COMMERCIAL DEVELOPMENT LLC	9227 BLUE MOUNTAIN LN SW	Southwest
194	TUMWATER CITY OF	555 ISRAEL RD SW	Port 9/10/15
195	WA DOC MUNI SW	7345 LINDERSON WAY SW	
196	SOUTH SOUND STEEL & RECYCLING	9546 LATHROP INDUSTRIAL DR SW	Southwest
10-Year WHPA			
197	SOUTHGATE CLEANERS	5141 CAPITOL BLVD	Palermo 2-6, 8
198	FRED MEYER TUMWATER - STORE 00659	555 TROSPER ROAD SW	
199			
200			
201			
202	ALBERTSONS, INC	705 TROSPER RD SW	
203			
204			
205			
206			
207	CITY OF TUMWATER	--	
208			
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221	TILLEY RD INDUSTRIAL PARK	88TH AVE SE	BMS/Port/Southwest

Table 4-9: Wells Listed in the DOH Database as Located within the WHPA

Map ID (Fig. 4-4)	Active/ Inactive	SystemName
222	Active	PRINE VILLA APTS BURNSVILLE
223		OLYMPIA CAMPGROUND
224		PALERMO
225		NORTHWEST PIPELINE
226	INACTIVE	ALL AMERICAN BOTTLED
227		
228		
229		
230		
231	Active	BELMONT
232		SILVER FOX MANOR
233	INACTIVE	ALL AMERICAN BOTTLED
234		
235		
236	Active	JOHNSON, LARRY
237		AMERICAN HERITAGE CAMPGROUNDS
238		
239	INACTIVE	ARMSTRONG 4-PLEXES
240	Active	CASE ROAD FOURPLEX
241		ADAIR HOMES
242		LINCOLN CREEK LUMBER CO
243		APEC SUPPLY
244		INACTIVE
245	PEDERSON PLACE	
246	PLEASURE PARK	
247	THURSTON AIRDUSTRIAL CENTER	
248	OLYMPIA CAMPGROUND	
249	Active	COMPTON WELL
250		RESTOVER TRUCK STOP
251	INACTIVE	THURSTON AIRDUSTRIAL CENTER
252		TAYLOR
253	Active	OLYMPIA AIRPORT
254	INACTIVE	TILLEY MAINTENANCE FACILITY
255	Active	HAYNES ACRES DIVISION 1
256		
257		TILLEY ROAD - 238
258		OLYMPIC STRUCTURES
259		SOUTH UNION GROCERY
260		DONOHUE LATHROP WELL
261		SKOOKUM STRUCTURES
262		Active
263	RONS CUSTOM SHOP	
264	INACTIVE	SOUTH UNION GRANGE 860
265	Active	VALLEY NUT & BOLT
266	INACTIVE	TALL FIRS MOBILE HOME PARK
267		DEHM, KARL & JUANITA
268	Active	LONGHORN COUNTRY ESTATES
269	INACTIVE	LEAMING
270		ALL AMERICAN BOTTLED
271	Active	TALL FIRS MOBILE HOME PARK
272	INACTIVE	HATCHER
273	Active	Thurston County EOC
274		MULFORD ESTATES
275	INACTIVE	HATCHER
276	Active	
277	INACTIVE	