



2006 FACT SHEET
PEGER ROAD GROUNDWATER QUALITY STATUS
FAIRBANKS, ALASKA

AUGUST 2006

What's New?

This fact sheet provides a summary of the Alaska Department of Environmental Conservation's (ADEC) continuing ground water assessment and interim corrective measures associated with the Alaska Department of Transportation and Public Facilities (ADOT&PF) Peger Road Operations & Maintenance facility. The local ground water has been impacted by a chlorinated solvent (Trichloroethene, also known as TCE), and petroleum hydrocarbons. Historical background information can be found in the 2003 and 2004 fact sheets and at ADEC's site summary web-page at http://www.dec.state.ak.us/spar/csp/sites/adot_pegger.htm.

Summary

The following are highlights from the 2005-2006 ground water quality assessment:

1. The extent of the western ground water contaminant plume has not been identified. The plume consists of TCE and primarily benzene. The TCE portion of the plume extends from the ADOT&PF Peger Road facility, northerly to 17th Avenue and westerly to Ada Street. Benzene is co-mingled with TCE and the plume is found north of 21st Avenue. Figure 1 shows the estimated locations of the ground water plumes.
2. Some residential groundwater wells, either drinking or irrigation wells, have been impacted by the western ground water contaminant plume. These wells have contaminant concentrations that are relatively low and below public drinking water maximum contaminant levels (MCL). However, there are two wells, one an inactive drinking water well and the other an irrigation well, that had contaminants above the MCL. Figure 2 identifies active/inactive drinking or irrigation wells. Table 3 shows the latest sampling results.
3. There are other sites (in addition to the ADOT&PF Peger Road facility) in the area that are being investigated as possibly contributing to the area-wide ground water contamination. Figure 3 identifies these sites.

What's Next?

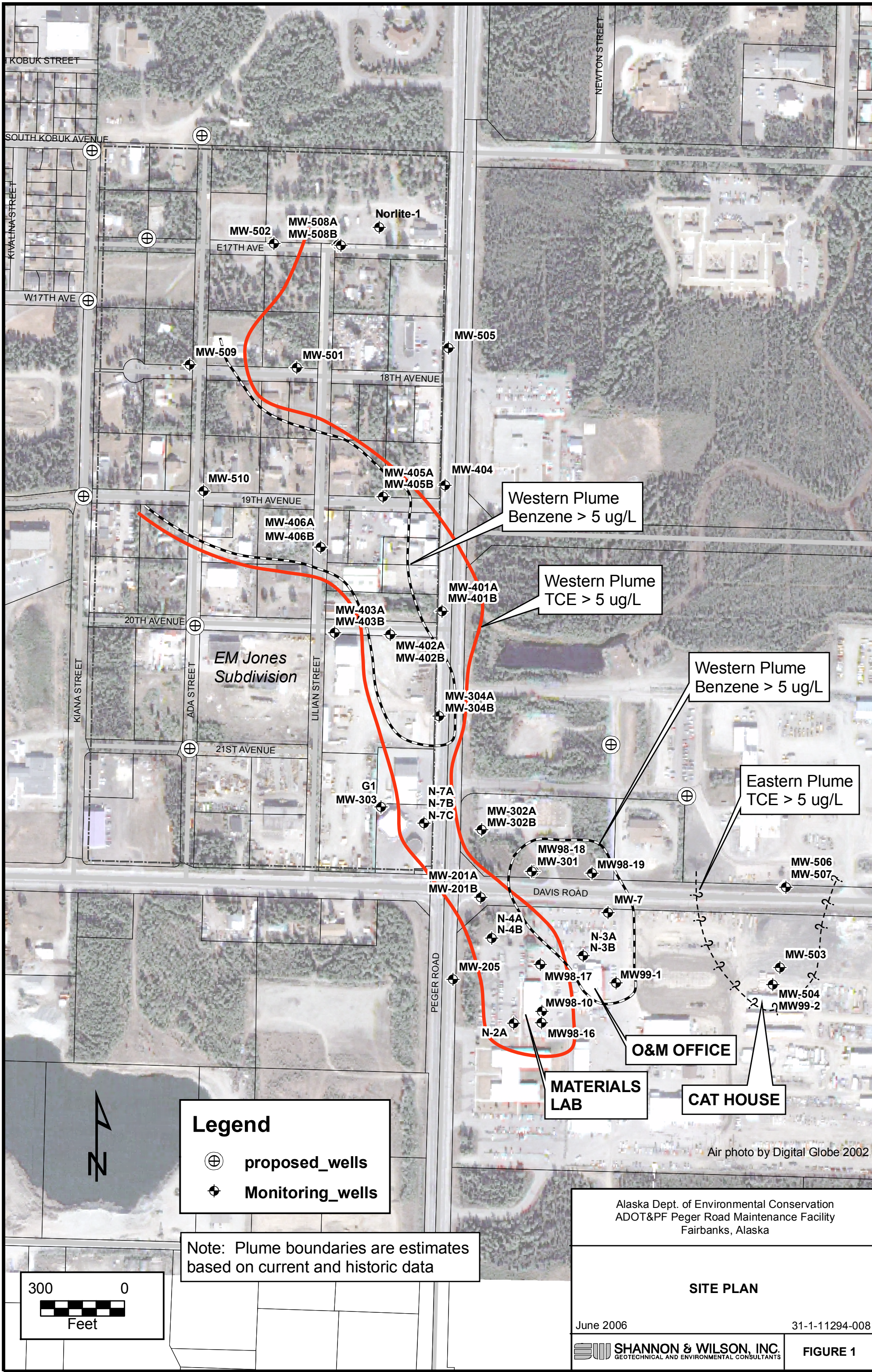
Additional ground water monitoring wells will be installed northwest of the western ground water plume in order to identify the nature and extent of the plume. A portion of the existing monitoring well network will continue to be sampled to analyze contaminant concentration trends.

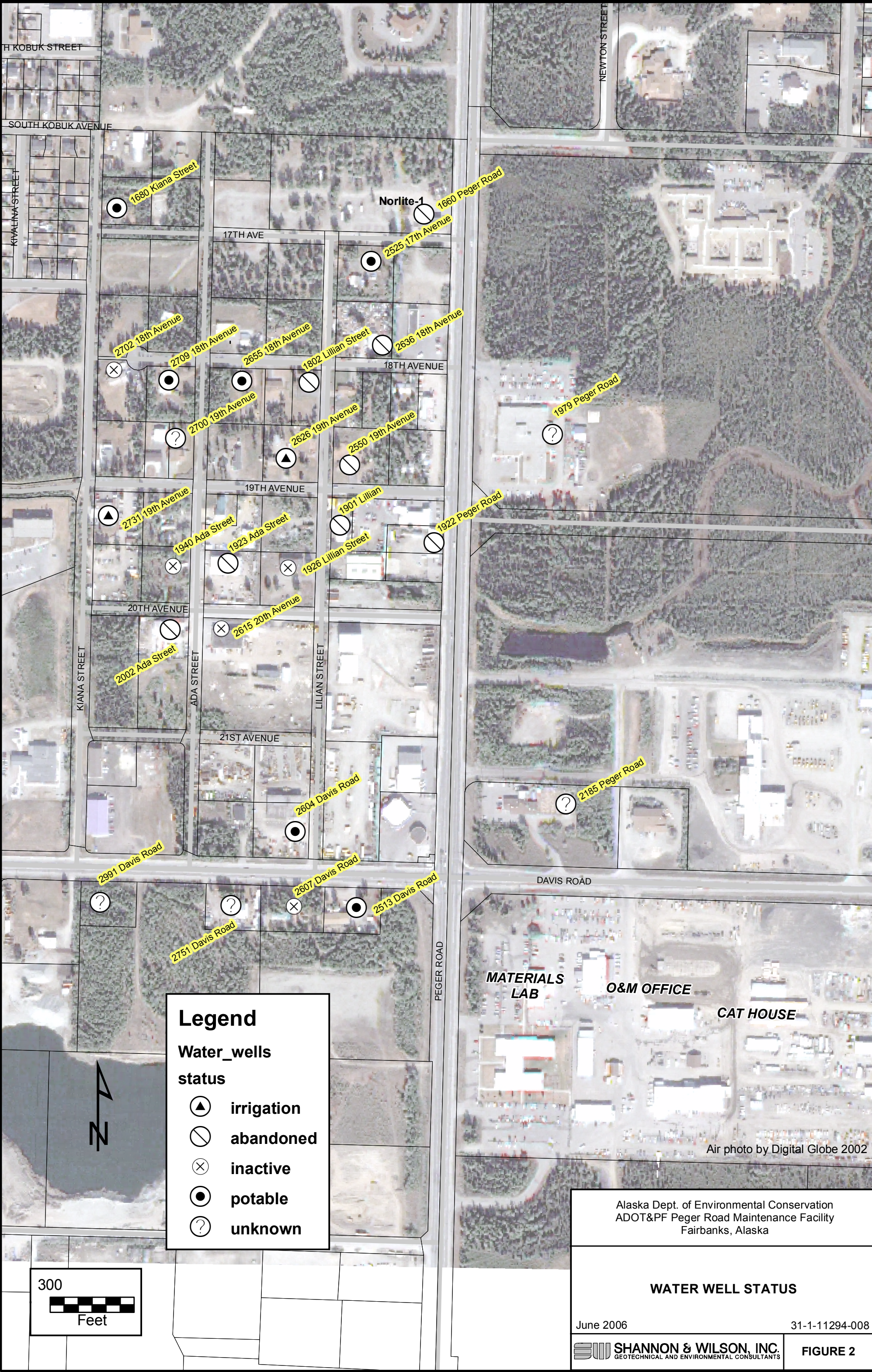
All residential wells in the area bound by 17th Avenue to the north, Peger Road to the east, Davis Road to the south, and Kiana Street to the west will be identified and hopefully sampled.

ADEC will investigate the Alaska Department of Public Safety facility (State Troopers/Department of Motor Vehicles' office) to determine if it may be contributing to the ground water plume.

ADEC will also coordinate investigative efforts with the various responsible parties (RPs) in the area to determine if they are contributing to the area-wide ground water contamination.

If you have any questions, please contact Mr. Douglas Bauer at (907) 451-2192 or at Doug_Bauer@dec.state.ak.us.





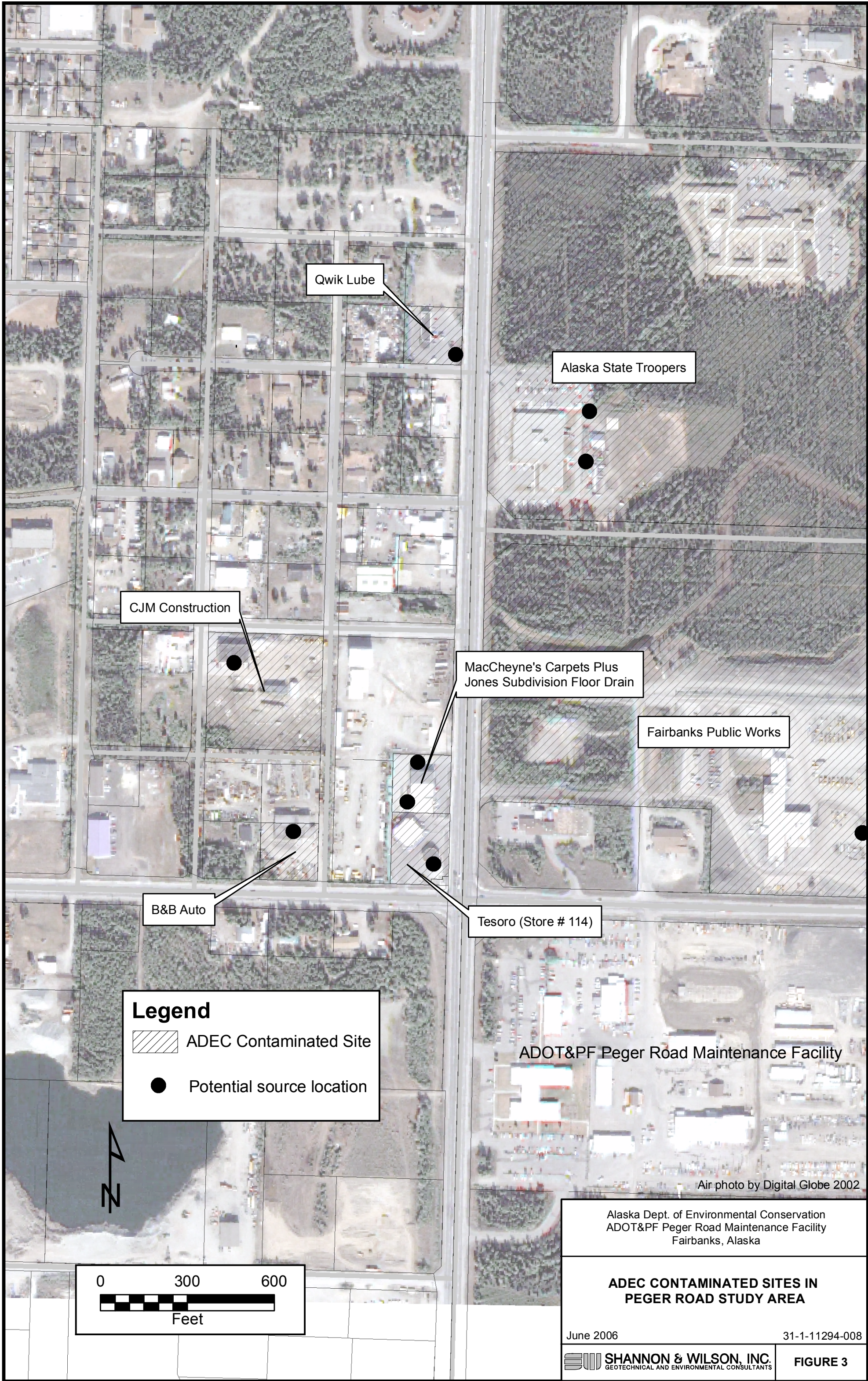


TABLE 3
SUMMARY OF PRIVATE WATER WELL SAMPLE RESULTS
PEGER ROAD O&M FACILITY

Sample Number	Sample Date	Legal Description	Physical Address	Volatile Organic Compounds EPA 8260*							
				Benzene (µg/L)	Toluene (µg/L)	Trichloro ethene (µg/L)	Dichloro difluoro methane (µg/L)	1,1-Dichloro ethane (µg/L)	1,2-Dichloro ethane (µg/L)	Methylene chloride (µg/L)	Methyl-t-butyl ether (µg/L)
Alaska Drinking Water Maximum Contaminant Levels 18 AAC 80.300				5	100	5	-	-	5	-	-
1259-042605-001	4/26/2005	TL-1713	2513 Davis Road	<0.400	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<5.00
1259-042605-002	4/26/2005	E M JONES, Block 01 Lot UMB01	1680 Kiana Street	<0.400	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<5.00
1259-042705-003	4/27/2005	E M JONES, Block 06 Lot 01	2525 17th Avenue	0.860	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<5.00
1259-042705-004	Duplicate	E M JONES, Block 06 Lot 01	2525 17th Avenue	0.780	<1.00	<1.00	1.00	<1.00	<0.500	<5.00	<5.00
1259-042705-005	4/27/2005	E M JONES, Block 08 Lot 01	2655 18th Avenue	0.730	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<5.00
1259-042705-006	4/27/2005	E M JONES, Block 07 Lot 02	2709 18th Avenue	<0.400	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<5.00
1259-042805-007	4/28/2005	E M JONES, Block 14	2615 20th Avenue	<0.400	1.01	<1.00	<1.00	<1.00	<0.500	<5.00	<5.00
1259-042805-008	4/28/2005	E M JONES, Block 10NW	2731 19th Avenue	0.710	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<5.00
1259-042805-009	4/28/2004	E M JONES, Block 08 Lot 04	2626 19th Avenue	8.54	<1.00	2.20	<1.00	1.11	<0.500	<5.00	10.4
1259-052505-010	5/25/2005	E M JONES, Block 17SE	2604 Davis Road	<0.400	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<5.00
1259-052305-011	5/23/2005	E M JONES, Block 11SE	1926 Lillian Street	<0.400	1.21	<1.00	<1.00	<1.00	38.5	20.2	<5.00
1259-052305-012	5/23/2005	E M JONES, Block 10SE	1940 Ada Street	<0.400	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<5.00

Note:

* - only those analytes detected above the laboratory practical quantitation limit (PQL) are recorded in this table

µg/L - micrograms per liter

< - Analyte not detected above the PQL shown

bold - analyte detected above the Alaska drinking water maximum contaminant levels (MCL) as reported in 18 AAC 80.300