APPENDIX F

Analytical Results from Groundwater Samples Collected from Piezometers

Appendix F, continued

Analytical Results In Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	1,1,1,2-TETRACHLOROETHANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	1,1,1,2-TETRACHLOROETHANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	1,1,1,2-TETRACHLOROETHANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	1,1,1,2-TETRACHLOROETHANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	1,1,1,2-TETRACHLOROETHANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	1,1,1,2-TETRACHLOROETHANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	1,1,1,2-TETRACHLOROETHANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	1,1,1,2-TETRACHLOROETHANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	1,1,1,2-TETRACHLOROETHANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	1,1,1,2-TETRACHLOROETHANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	1,1,1,2-TETRACHLOROETHANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	1,1,1,2-TETRACHLOROETHANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	1,1,1,2-TETRACHLOROETHANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	1,1,1,2-TETRACHLOROETHANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	1,1,1,2-TETRACHLOROETHANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	1,1,1,2-TETRACHLOROETHANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	1,1,1-TRICHLOROETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	1,1,1-TRICHLOROETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	1,1,1-TRICHLOROETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	1,1,1-TRICHLOROETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	1,1,1-TRICHLOROETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	1,1,1-TRICHLOROETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	1,1,1-TRICHLOROETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	1,1,1-TRICHLOROETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	1,1,1-TRICHLOROETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	1,1,1-TRICHLOROETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	1,1,1-TRICHLOROETHANE	< 0.13	UG/L	0.13	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	1,1,1-TRICHLOROETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	1,1,1-TRICHLOROETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	1,1,1-TRICHLOROETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	1,1,1-TRICHLOROETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	1,1,1-TRICHLOROETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	1,1,2,2-TETRACHLOROETHANE	< 0.28	UG/L	0.28	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	1,1,2,2-TETRACHLOROETHANE	< 0.28	UG/L	0.28	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	1,1,2,2-TETRACHLOROETHANE	< 0.28	UG/L	0.28	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	1,1,2,2-TETRACHLOROETHANE	< 0.28	UG/L	0.28	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	1,1,2,2-TETRACHLOROETHANE	< 0.28	UG/L	0.28	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	1,1,2,2-TETRACHLOROETHANE	< 0.28	UG/L	0.28	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	1,1,2,2-TETRACHLOROETHANE	< 0.28	UG/L	0.28	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	1,1,2,2-TETRACHLOROETHANE	< 0.28	UG/L	0.28	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	1,1,2,2-TETRACHLOROETHANE	< 0.28	UG/L	0.28	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	1,1,2,2-TETRACHLOROETHANE	< 0.28	UG/L	0.28	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	1,1,2,2-TETRACHLOROETHANE	< 0.28	UG/L	0.28	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	1,1,2,2-TETRACHLOROETHANE	< 0.28	UG/L	0.28	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	1,1,2,2-TETRACHLOROETHANE	< 0.28	UG/L	0.28	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	1,1,2,2-TETRACHLOROETHANE	< 0.28	UG/L	0.28	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	1,1,2,2-TETRACHLOROETHANE	< 0.28	UG/L	0.28	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	1,1,2,2-TETRACHLOROETHANE	< 0.28	UG/L	0.28	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	< 0.2	UG/L	0.2	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	11	UG/L	0.2	=	J	4L,5
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	13	UG/L	0.2	=	J	4L,5
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	1,1,2-TRICHLOROETHANE	< 0.23	UG/L	0.23	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	1,1,2-TRICHLOROETHANE	< 0.23	UG/L	0.23	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	1,1,2-TRICHLOROETHANE	< 0.23	UG/L	0.23	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	1,1,2-TRICHLOROETHANE	< 0.23	UG/L	0.23	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	1,1,2-TRICHLOROETHANE	< 0.23	UG/L	0.23	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	1,1,2-TRICHLOROETHANE	< 0.23	UG/L	0.23	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	1,1,2-TRICHLOROETHANE	< 0.23	UG/L	0.23	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	1,1,2-TRICHLOROETHANE	< 0.23	UG/L	0.23	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	1,1,2-TRICHLOROETHANE	< 0.23	UG/L	0.23	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	1,1,2-TRICHLOROETHANE	< 0.23	UG/L	0.23	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	1,1,2-TRICHLOROETHANE	< 0.23	UG/L	0.23	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	1,1,2-TRICHLOROETHANE	< 0.23	UG/L	0.23	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	1,1,2-TRICHLOROETHANE	< 0.23	UG/L	0.23	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	1,1,2-TRICHLOROETHANE	< 0.23	UG/L	0.23	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	1,1,2-TRICHLOROETHANE	< 0.23	UG/L	0.23	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	1,1,2-TRICHLOROETHANE	< 0.23	UG/L	0.23	ND	U	- -
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	1,1-DICHLOROETHANE	< 0.12	UG/L	0.12	ND	U	- -

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	1,1-DICHLOROETHANE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	1,1-DICHLOROETHANE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	1,1-DICHLOROETHANE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	1,1-DICHLOROETHANE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	1,1-DICHLOROETHANE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	1,1-DICHLOROETHANE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	1,1-DICHLOROETHANE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	1,1-DICHLOROETHANE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	1,1-DICHLOROETHANE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	1,1-DICHLOROETHANE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	1,1-DICHLOROETHANE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	1,1-DICHLOROETHANE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	1,1-DICHLOROETHANE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	1,1-DICHLOROETHANE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	1,1-DICHLOROETHANE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	1,1-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	1,1-DICHLOROETHENE	**0.69**	UG/L	0.15	TR	J	T
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	1,1-DICHLOROETHENE	**0.7**	UG/L	0.15	TR	J	T
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	1,1-DICHLOROETHENE	**0.74**	UG/L	0.15	TR	J	T
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	1,1-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	1,1-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	1,1-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	1,1-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	1,1-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	1,1-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	1,1-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	1,1-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	1,1-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	1,1-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	1,1-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	1,1-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	1,1-DICHLOROPROPENE	< 0.22	UG/L	0.22	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	1,1-DICHLOROPROPENE	< 0.22	UG/L	0.22	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	1,1-DICHLOROPROPENE	< 0.22	UG/L	0.22	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	1,1-DICHLOROPROPENE	< 0.22	UG/L	0.22	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	1,1-DICHLOROPROPENE	< 0.22	UG/L	0.22	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	1,1-DICHLOROPROPENE	< 0.22	UG/L	0.22	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	1,1-DICHLOROPROPENE	< 0.22	UG/L	0.22	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	1,1-DICHLOROPROPENE	< 0.22	UG/L	0.22	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	1,1-DICHLOROPROPENE	< 0.22	UG/L	0.22	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	1,1-DICHLOROPROPENE	< 0.22	UG/L	0.22	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	1,1-DICHLOROPROPENE	< 0.22	UG/L	0.22	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	1,1-DICHLOROPROPENE	< 0.22	UG/L	0.22	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	1,1-DICHLOROPROPENE	< 0.22	UG/L	0.22	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	1,1-DICHLOROPROPENE	< 0.22	UG/L	0.22	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	1,1-DICHLOROPROPENE	< 0.22	UG/L	0.22	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	1,1-DICHLOROPROPENE	< 0.22	UG/L	0.22	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	1,2,3-TRICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	1,2,3-TRICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	1,2,3-TRICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	1,2,3-TRICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	1,2,3-TRICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	1,2,3-TRICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	1,2,3-TRICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	1,2,3-TRICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	1,2,3-TRICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	1,2,3-TRICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	1,2,3-TRICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	1,2,3-TRICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	1,2,3-TRICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	1,2,3-TRICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	1,2,3-TRICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	1,2,3-TRICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	1,2,3-TRICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	1,2,3-TRICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	1,2,3-TRICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	1,2,3-TRICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	1,2,3-TRICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	1,2,3-TRICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	1,2,3-TRICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	1,2,3-TRICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	1,2,3-TRICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	1,2,3-TRICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	1,2,3-TRICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	1,2,3-TRICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	1,2,3-TRICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	1,2,3-TRICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	1,2,3-TRICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	1,2,3-TRICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	1,2,4-TRICHLOROBENZENE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	1,2,4-TRICHLOROBENZENE	< 0.2	UG/L	0.2	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	1,2,4-TRICHLOROBENZENE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	1,2,4-TRICHLOROBENZENE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	1,2,4-TRICHLOROBENZENE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	1,2,4-TRICHLOROBENZENE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	1,2,4-TRICHLOROBENZENE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	1,2,4-TRICHLOROBENZENE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	1,2,4-TRICHLOROBENZENE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	1,2,4-TRICHLOROBENZENE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	1,2,4-TRICHLOROBENZENE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	1,2,4-TRICHLOROBENZENE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	1,2,4-TRICHLOROBENZENE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	1,2,4-TRICHLOROBENZENE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	1,2,4-TRICHLOROBENZENE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	1,2,4-TRICHLOROBENZENE	< 0.2	UG/L	0.2	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	1,2,4-TRIMETHYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	1,2,4-TRIMETHYLBENZENE	**0.21**	UG/L	0.14	TR	J	T
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	1,2,4-TRIMETHYLBENZENE	**0.27**	UG/L	0.14	TR	J	T
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	1,2,4-TRIMETHYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	1,2,4-TRIMETHYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	1,2,4-TRIMETHYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	1,2,4-TRIMETHYLBENZENE	**0.4**	UG/L	0.14	TR	J	T
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	1,2,4-TRIMETHYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	1,2,4-TRIMETHYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	1,2,4-TRIMETHYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	1,2,4-TRIMETHYLBENZENE	**0.75**	UG/L	0.14	TR	J	T
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	1,2,4-TRIMETHYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	1,2,4-TRIMETHYLBENZENE	< 0.14	UG/L	0.14	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	1,2,4-TRIMETHYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	1,2,4-TRIMETHYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	1,2,4-TRIMETHYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	1,2-DIBROMO-3-CHLOROPROPANE	< 0.5	UG/L	0.5	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	1,2-DIBROMO-3-CHLOROPROPANE	< 0.5	UG/L	0.5	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	1,2-DIBROMO-3-CHLOROPROPANE	< 0.5	UG/L	0.5	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	1,2-DIBROMO-3-CHLOROPROPANE	< 0.5	UG/L	0.5	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	1,2-DIBROMO-3-CHLOROPROPANE	< 0.5	UG/L	0.5	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	1,2-DIBROMO-3-CHLOROPROPANE	< 0.5	UG/L	0.5	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	1,2-DIBROMO-3-CHLOROPROPANE	< 0.5	UG/L	0.5	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	1,2-DIBROMO-3-CHLOROPROPANE	< 0.5	UG/L	0.5	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	1,2-DIBROMO-3-CHLOROPROPANE	< 0.5	UG/L	0.5	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	1,2-DIBROMO-3-CHLOROPROPANE	< 0.5	UG/L	0.5	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	1,2-DIBROMO-3-CHLOROPROPANE	< 0.5	UG/L	0.5	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	1,2-DIBROMO-3-CHLOROPROPANE	< 0.5	UG/L	0.5	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	1,2-DIBROMO-3-CHLOROPROPANE	< 0.5	UG/L	0.5	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	1,2-DIBROMO-3-CHLOROPROPANE	< 0.5	UG/L	0.5	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	1,2-DIBROMO-3-CHLOROPROPANE	< 0.5	UG/L	0.5	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	1,2-DIBROMO-3-CHLOROPROPANE	< 0.5	UG/L	0.5	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	< 0.16	UG/L	0.16	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	< 0.16	UG/L	0.16	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	< 0.16	UG/L	0.16	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	< 0.16	UG/L	0.16	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	< 0.16	UG/L	0.16	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	< 0.16	UG/L	0.16	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	< 0.16	UG/L	0.16	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	< 0.16	UG/L	0.16	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	< 0.16	UG/L	0.16	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	< 0.16	UG/L	0.16	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	< 0.16	UG/L	0.16	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	< 0.16	UG/L	0.16	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	< 0.16	UG/L	0.16	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	< 0.16	UG/L	0.16	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	< 0.16	UG/L	0.16	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	< 0.16	UG/L	0.16	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	1,2-DICHLOROBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	1,2-DICHLOROBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	1,2-DICHLOROBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	1,2-DICHLOROBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	1,2-DICHLOROBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	1,2-DICHLOROBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	1,2-DICHLOROBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	1,2-DICHLOROBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	1,2-DICHLOROBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	1,2-DICHLOROBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	1,2-DICHLOROBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	1,2-DICHLOROBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	1,2-DICHLOROBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	1,2-DICHLOROBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	1,2-DICHLOROBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	1,2-DICHLOROBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	1,2-DICHLOROETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	1,2-DICHLOROETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	1,2-DICHLOROETHANE	< 0.17	UG/L	0.17	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	1,2-DICHLOROETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	1,2-DICHLOROETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	1,2-DICHLOROETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	1,2-DICHLOROETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	1,2-DICHLOROETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	1,2-DICHLOROETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	1,2-DICHLOROETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	1,2-DICHLOROETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	1,2-DICHLOROETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	1,2-DICHLOROETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	1,2-DICHLOROETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	1,2-DICHLOROETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	1,2-DICHLOROETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	1,2-DICHLOROPROPANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	1,2-DICHLOROPROPANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	1,2-DICHLOROPROPANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	1,2-DICHLOROPROPANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	1,2-DICHLOROPROPANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	1,2-DICHLOROPROPANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	1,2-DICHLOROPROPANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	1,2-DICHLOROPROPANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	1,2-DICHLOROPROPANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	1,2-DICHLOROPROPANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	1,2-DICHLOROPROPANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	1,2-DICHLOROPROPANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	1,2-DICHLOROPROPANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	1,2-DICHLOROPROPANE	< 0.17	UG/L	0.17	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	1,2-DICHLOROPROPANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	1,2-DICHLOROPROPANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	1,3,5-TRIMETHYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	1,3,5-TRIMETHYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	1,3,5-TRIMETHYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	1,3,5-TRIMETHYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	1,3,5-TRIMETHYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	1,3,5-TRIMETHYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	1,3,5-TRIMETHYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	1,3,5-TRIMETHYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	1,3,5-TRIMETHYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	1,3,5-TRIMETHYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	1,3,5-TRIMETHYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	1,3,5-TRIMETHYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	1,3,5-TRIMETHYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	1,3,5-TRIMETHYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	1,3,5-TRIMETHYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	1,3,5-TRIMETHYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	1,3-DICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	1,3-DICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	1,3-DICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	1,3-DICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	1,3-DICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	1,3-DICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	1,3-DICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	1,3-DICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	1,3-DICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	1,3-DICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	1,3-DICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	1,3-DICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	1,3-DICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	1,3-DICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	1,3-DICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	1,3-DICHLOROBENZENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	1,3-DICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	1,3-DICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	1,3-DICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	1,3-DICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	1,3-DICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	1,3-DICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	1,3-DICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	1,3-DICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	1,3-DICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	1,3-DICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	1,3-DICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	1,3-DICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	1,3-DICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	1,3-DICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	1,3-DICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	1,3-DICHLOROPROPANE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	1,4-DICHLOROBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	1,4-DICHLOROBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	1,4-DICHLOROBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	1,4-DICHLOROBENZENE	< 0.14	UG/L	0.14	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	1,4-DICHLOROBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	1,4-DICHLOROBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	1,4-DICHLOROBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	1,4-DICHLOROBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	1,4-DICHLOROBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	1,4-DICHLOROBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	1,4-DICHLOROBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	1,4-DICHLOROBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	1,4-DICHLOROBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	1,4-DICHLOROBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	1,4-DICHLOROBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	1,4-DICHLOROBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	2,2-DICHLOROPROPANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	2,2-DICHLOROPROPANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	2,2-DICHLOROPROPANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	2,2-DICHLOROPROPANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	2,2-DICHLOROPROPANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	2,2-DICHLOROPROPANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	2,2-DICHLOROPROPANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	2,2-DICHLOROPROPANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	2,2-DICHLOROPROPANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	2,2-DICHLOROPROPANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	2,2-DICHLOROPROPANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	2,2-DICHLOROPROPANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	2,2-DICHLOROPROPANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	2,2-DICHLOROPROPANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	2,2-DICHLOROPROPANE	< 0.18	UG/L	0.18	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	2,2-DICHLOROPROPANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	2-CHLOROTOLUENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	2-CHLOROTOLUENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	2-CHLOROTOLUENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	2-CHLOROTOLUENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	2-CHLOROTOLUENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	2-CHLOROTOLUENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	2-CHLOROTOLUENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	2-CHLOROTOLUENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	2-CHLOROTOLUENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	2-CHLOROTOLUENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	2-CHLOROTOLUENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	2-CHLOROTOLUENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	2-CHLOROTOLUENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	2-CHLOROTOLUENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	2-CHLOROTOLUENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	2-CHLOROTOLUENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	2-HEXANONE	< 1	UG/L	1	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	2-HEXANONE	< 1	UG/L	1	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	2-HEXANONE	< 1	UG/L	1	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	2-HEXANONE	< 1	UG/L	1	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	2-HEXANONE	< 1	UG/L	1	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	2-HEXANONE	< 1	UG/L	1	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	2-HEXANONE	< 1	UG/L	1	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	2-HEXANONE	< 1	UG/L	1	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	2-HEXANONE	< 1	UG/L	1	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	2-HEXANONE	< 1	UG/L	1	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	2-HEXANONE	< 1	UG/L	1	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	2-HEXANONE	< 1	UG/L	1	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	2-HEXANONE	< 1	UG/L	1	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	2-HEXANONE	< 1	UG/L	1	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	2-HEXANONE	< 1	UG/L	1	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	2-HEXANONE	< 1	UG/L	1	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	4-CHLOROTOLUENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	4-CHLOROTOLUENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	4-CHLOROTOLUENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	4-CHLOROTOLUENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	4-CHLOROTOLUENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	4-CHLOROTOLUENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	4-CHLOROTOLUENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	4-CHLOROTOLUENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	4-CHLOROTOLUENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	4-CHLOROTOLUENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	4-CHLOROTOLUENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	4-CHLOROTOLUENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	4-CHLOROTOLUENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	4-CHLOROTOLUENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	4-CHLOROTOLUENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	4-CHLOROTOLUENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	ACETONE	< 1.9	UG/L	1.9	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	ACETONE	< 1.9	UG/L	1.9	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	ACETONE	< 1.9	UG/L	1.9	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	ACETONE	< 1.9	UG/L	1.9	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	ACETONE	22	UG/L	1.9	=	-	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	ACETONE	< 1.9	UG/L	1.9	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	ACETONE	**9.4**	UG/L	1.9	TR	J	T
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	ACETONE	< 1.9	UG/L	1.9	ND	UJ	4L
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	ACETONE	< 1.9	UG/L	1.9	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	ACETONE	< 1.9	UG/L	1.9	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	ACETONE	**3.8**	UG/L	1.9	TR	J	T
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	ACETONE	< 1.9	UG/L	1.9	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	ACETONE	< 1.9	UG/L	1.9	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	ACETONE	< 1.9	UG/L	1.9	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	ACETONE	< 1.9	UG/L	1.9	ND	UJ	4L
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	ACETONE	< 1.9	UG/L	1.9	ND	UJ	4L
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW6010B	ALUMINUM	< 0.0612	MG/L	0.0612	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW6010B	ALUMINUM	< 0.0612	MG/L	0.0612	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW6010B	ALUMINUM	< 0.0612	MG/L	0.0612	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW6010B	ALUMINUM	< 0.0612	MG/L	0.0612	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW6010B	ALUMINUM	< 0.0612	MG/L	0.0612	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW6010B	ALUMINUM	< 0.0612	MG/L	0.0612	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW6010B	ALUMINUM	< 0.0612	MG/L	0.0612	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW6010B	ALUMINUM	< 0.0612	MG/L	0.0612	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW6010B	ALUMINUM	**1.62**	MG/L	0.0612	=	-	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW6010B	ALUMINUM	< 0.0612	MG/L	0.0612	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW6010B	ALUMINUM	**0.559**	MG/L	0.0612	=	-	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW6010B	ALUMINUM	< 0.0612	MG/L	0.0612	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW6010B	ALUMINUM	< 0.0612	MG/L	0.0612	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW6010B	ALUMINUM	< 0.0612	MG/L	0.0612	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW6010B	ALUMINUM	< 0.0612	MG/L	0.0612	ND	U	8
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW6010B	ALUMINUM	**0.449**	MG/L	0.0612	=	-	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW7041	ANTIMONY	< 0.0025	MG/L	0.0025	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW7041	ANTIMONY	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW7041	ANTIMONY	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW7041	ANTIMONY	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW7041	ANTIMONY	< 0.0025	MG/L	0.0025	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW7041	ANTIMONY	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW7041	ANTIMONY	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW7041	ANTIMONY	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW7041	ANTIMONY	< 0.0025	MG/L	0.0025	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW7041	ANTIMONY	< 0.005	MG/L	0.005	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW7041	ANTIMONY	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW7041	ANTIMONY	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW7041	ANTIMONY	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW7041	ANTIMONY	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW7041	ANTIMONY	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW7041	ANTIMONY	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW6010B	ARSENIC	**0.0186**	MG/L	0.0036	=	-	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW6010B	ARSENIC	**0.0121**	MG/L	0.0036	=	-	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW6010B	ARSENIC	**0.0115**	MG/L	0.0036	=	-	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW6010B	ARSENIC	**0.0107**	MG/L	0.0036	=	-	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW6010B	ARSENIC	**0.0514**	MG/L	0.0036	=	-	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW6010B	ARSENIC	**0.0353**	MG/L	0.0036	=	-	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW6010B	ARSENIC	**0.0188**	MG/L	0.0036	=	-	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW7060A	ARSENIC	< 0.0012	MG/L	0.0012	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW6010B	ARSENIC	**0.00999**	MG/L	0.0036	TR	J	T
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW6010B	ARSENIC	< 0.0036	MG/L	0.0036	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW6010B	ARSENIC	**0.0119**	MG/L	0.0036	=	-	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW7060A	ARSENIC	**0.00449**	MG/L	0.0012	=	-	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW7060A	ARSENIC	< 0.0012	MG/L	0.0012	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW7060A	ARSENIC	< 0.0012	MG/L	0.0012	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW7060A	ARSENIC	< 0.0012	MG/L	0.0012	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW7060A	ARSENIC	< 0.0012	MG/L	0.0012	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW6010B	BARIUM	**0.196**	MG/L	0.0015	=	-	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW6010B	BARIUM	**0.282**	MG/L	0.0015	=	-	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW6010B	BARIUM	**0.264**	MG/L	0.0015	=	-	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW6010B	BARIUM	**0.26**	MG/L	0.0015	=	-	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW6010B	BARIUM	**0.512**	MG/L	0.0015	=	-	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW6010B	BARIUM	**1.34**	MG/L	0.0015	=	-	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW6010B	BARIUM	**0.265**	MG/L	0.0015	=	-	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW6010B	BARIUM	**0.41**	MG/L	0.0015	=	-	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW6010B	BARIUM	**0.151**	MG/L	0.0015	=	-	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW6010B	BARIUM	**0.0508**	MG/L	0.0015	=	-	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW6010B	BARIUM	**0.169**	MG/L	0.0015	=	-	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW6010B	BARIUM	**0.0494**	MG/L	0.0015	=	-	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW6010B	BARIUM	**0.111**	MG/L	0.0015	=	-	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW6010B	BARIUM	**0.157**	MG/L	0.0015	=	-	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW6010B	BARIUM	**0.188**	MG/L	0.0015	=	-	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW6010B	BARIUM	**0.185**	MG/L	0.0015	=	-	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	BENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	BENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	BENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	BENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	BENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	BENZENE	< 0.18	UG/L	0.18	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	BENZENE	0.27	UG/L	0.18	TR	J	T
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	BENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	BENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	BENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	BENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	BENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	BENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	BENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	BENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	BENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW6010B	BERYLLIUM	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW6010B	BERYLLIUM	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW6010B	BERYLLIUM	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW6010B	BERYLLIUM	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW6010B	BERYLLIUM	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW6010B	BERYLLIUM	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW6010B	BERYLLIUM	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW6010B	BERYLLIUM	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW6010B	BERYLLIUM	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW6010B	BERYLLIUM	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW6010B	BERYLLIUM	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW6010B	BERYLLIUM	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW6010B	BERYLLIUM	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW6010B	BERYLLIUM	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW6010B	BERYLLIUM	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW6010B	BERYLLIUM	< 0.0005	MG/L	0.0005	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	BROMOBENZENE	< 0.16	UG/L	0.16	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	BROMOBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	BROMOBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	BROMOBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	BROMOBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	BROMOBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	BROMOBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	BROMOBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	BROMOBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	BROMOBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	BROMOBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	BROMOBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	BROMOBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	BROMOBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	BROMOBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	BROMOBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	BROMOCHLOROMETHANE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	BROMOCHLOROMETHANE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	BROMOCHLOROMETHANE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	BROMOCHLOROMETHANE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	BROMOCHLOROMETHANE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	BROMOCHLOROMETHANE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	BROMOCHLOROMETHANE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	BROMOCHLOROMETHANE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	BROMOCHLOROMETHANE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	BROMOCHLOROMETHANE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	BROMOCHLOROMETHANE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	BROMOCHLOROMETHANE	< 0.14	UG/L	0.14	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	BROMOCHLOROMETHANE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	BROMOCHLOROMETHANE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	BROMOCHLOROMETHANE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	BROMOCHLOROMETHANE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	BROMODICHLOROMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	BROMODICHLOROMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	BROMODICHLOROMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	BROMODICHLOROMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	BROMODICHLOROMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	BROMODICHLOROMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	BROMODICHLOROMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	BROMODICHLOROMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	BROMODICHLOROMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	BROMODICHLOROMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	BROMODICHLOROMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	BROMODICHLOROMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	BROMODICHLOROMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	BROMODICHLOROMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	BROMODICHLOROMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	BROMODICHLOROMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	BROMOFORM	< 0.22	UG/L	0.22	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	BROMOFORM	< 0.22	UG/L	0.22	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	BROMOFORM	< 0.22	UG/L	0.22	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	BROMOFORM	< 0.22	UG/L	0.22	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	BROMOFORM	< 0.22	UG/L	0.22	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	BROMOFORM	< 0.22	UG/L	0.22	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	BROMOFORM	< 0.22	UG/L	0.22	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	BROMOFORM	< 0.22	UG/L	0.22	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	BROMOFORM	< 0.22	UG/L	0.22	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	BROMOFORM	< 0.22	UG/L	0.22	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	BROMOFORM	< 0.22	UG/L	0.22	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	BROMOFORM	< 0.22	UG/L	0.22	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	BROMOFORM	< 0.22	UG/L	0.22	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	BROMOFORM	< 0.22	UG/L	0.22	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	BROMOFORM	< 0.22	UG/L	0.22	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	BROMOFORM	< 0.22	UG/L	0.22	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	BROMOMETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	BROMOMETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	BROMOMETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	BROMOMETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	BROMOMETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	BROMOMETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	BROMOMETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	BROMOMETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	BROMOMETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	BROMOMETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	BROMOMETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	BROMOMETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	BROMOMETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	BROMOMETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	BROMOMETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	BROMOMETHANE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW6010B	CADMIUM	< 0.0007	MG/L	0.0007	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW6010B	CADMIUM	< 0.0007	MG/L	0.0007	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW6010B	CADMIUM	< 0.0007	MG/L	0.0007	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW6010B	CADMIUM	< 0.0007	MG/L	0.0007	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW6010B	CADMIUM	< 0.0007	MG/L	0.0007	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW6010B	CADMIUM	< 0.0007	MG/L	0.0007	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW6010B	CADMIUM	< 0.0007	MG/L	0.0007	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW6010B	CADMIUM	< 0.0007	MG/L	0.0007	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW6010B	CADMIUM	< 0.0007	MG/L	0.0007	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW6010B	CADMIUM	**0.00407**	MG/L	0.0007	TR	J	T
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW6010B	CADMIUM	< 0.0007	MG/L	0.0007	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW6010B	CADMIUM	< 0.0007	MG/L	0.0007	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW6010B	CADMIUM	< 0.0007	MG/L	0.0007	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW6010B	CADMIUM	< 0.0007	MG/L	0.0007	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW6010B	CADMIUM	< 0.0007	MG/L	0.0007	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW6010B	CADMIUM	< 0.0007	MG/L	0.0007	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW6010B	CALCIUM	**215**	MG/L	0.0318	=	-	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW6010B	CALCIUM	**170**	MG/L	0.0318	=	-	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW6010B	CALCIUM	**159**	MG/L	0.0318	=	-	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW6010B	CALCIUM	**157**	MG/L	0.0318	=	-	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW6010B	CALCIUM	**542**	MG/L	0.0318	=	-	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW6010B	CALCIUM	**247**	MG/L	0.0318	=	-	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW6010B	CALCIUM	**197**	MG/L	0.0318	=	-	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW6010B	CALCIUM	**110**	MG/L	0.0318	=	-	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW6010B	CALCIUM	**747**	MG/L	0.0318	=	-	=
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW6010B	CALCIUM	**1940**	MG/L	3.18	=	-	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW6010B	CALCIUM	**255**	MG/L	0.0318	=	-	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW6010B	CALCIUM	**36.7**	MG/L	0.0318	=	-	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW6010B	CALCIUM	**144**	MG/L	0.0318	=	-	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW6010B	CALCIUM	**96.9**	MG/L	0.0318	=	-	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW6010B	CALCIUM	**144**	MG/L	0.0318	=	-	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW6010B	CALCIUM	**146**	MG/L	0.0318	=	-	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	CARBON DISULFIDE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	CARBON DISULFIDE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	CARBON DISULFIDE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	CARBON DISULFIDE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	CARBON DISULFIDE	**3.9**	UG/L	0.13	=	-	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	CARBON DISULFIDE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	CARBON DISULFIDE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	CARBON DISULFIDE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	CARBON DISULFIDE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	CARBON DISULFIDE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	CARBON DISULFIDE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	CARBON DISULFIDE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	CARBON DISULFIDE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	CARBON DISULFIDE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	CARBON DISULFIDE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	CARBON DISULFIDE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	CARBON TETRACHLORIDE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	CARBON TETRACHLORIDE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	CARBON TETRACHLORIDE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	CARBON TETRACHLORIDE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	CARBON TETRACHLORIDE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	CARBON TETRACHLORIDE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	CARBON TETRACHLORIDE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	CARBON TETRACHLORIDE	< 0.17	UG/L	0.17	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	CARBON TETRACHLORIDE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	CARBON TETRACHLORIDE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	CARBON TETRACHLORIDE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	CARBON TETRACHLORIDE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	CARBON TETRACHLORIDE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	CARBON TETRACHLORIDE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	CARBON TETRACHLORIDE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	CARBON TETRACHLORIDE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	E300	CHLORIDE	5930	MG/L	25	=	-	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	E300	CHLORIDE	4760	MG/L	25	=	-	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	E300	CHLORIDE	4710	MG/L	25	=	-	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	E300	CHLORIDE	4680	MG/L	25	=	-	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	E300	CHLORIDE	11300	MG/L	125	=	-	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	E300	CHLORIDE	2190	MG/L	12.5	=	-	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	E300	CHLORIDE	5760	MG/L	25	=	-	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	E300	CHLORIDE	49	MG/L	0.25	=	-	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	E300	CHLORIDE	11700	MG/L	50	=	-	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	E300	CHLORIDE	40100	MG/L	125	=	-	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	E300	CHLORIDE	4440	MG/L	25	=	-	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	E300	CHLORIDE	122	MG/L	0.625	=	-	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	E300	CHLORIDE	27.3	MG/L	0.125	=	-	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	E300	CHLORIDE	63.5	MG/L	0.625	=	-	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	E300	CHLORIDE	97	MG/L	0.625	=	-	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	E300	CHLORIDE	98.5	MG/L	0.625	=	-	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	CHLOROBENZENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	CHLOROBENZENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	CHLOROBENZENE	< 0.12	UG/L	0.12	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	CHLOROBENZENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	CHLOROBENZENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	CHLOROBENZENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	CHLOROBENZENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	CHLOROBENZENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	CHLOROBENZENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	CHLOROBENZENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	CHLOROBENZENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	CHLOROBENZENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	CHLOROBENZENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	CHLOROBENZENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	CHLOROBENZENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	CHLOROBENZENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	CHLOROETHANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	CHLOROETHANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	CHLOROETHANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	CHLOROETHANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	CHLOROETHANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	CHLOROETHANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	CHLOROETHANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	CHLOROETHANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	CHLOROETHANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	CHLOROETHANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	CHLOROETHANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	CHLOROETHANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	CHLOROETHANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	CHLOROETHANE	< 0.18	UG/L	0.18	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	CHLOROETHANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	CHLOROETHANE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	CHLOROFORM	< 0.12	UG/L	0.12	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	CHLOROFORM	< 0.12	UG/L	0.12	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	CHLOROFORM	< 0.12	UG/L	0.12	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	CHLOROFORM	< 0.12	UG/L	0.12	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	CHLOROFORM	< 0.12	UG/L	0.12	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	CHLOROFORM	< 0.12	UG/L	0.12	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	CHLOROFORM	< 0.12	UG/L	0.12	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	CHLOROFORM	**0.49**	UG/L	0.12	TR	J	T
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	CHLOROFORM	< 0.12	UG/L	0.12	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	CHLOROFORM	< 0.12	UG/L	0.12	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	CHLOROFORM	< 0.12	UG/L	0.12	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	CHLOROFORM	**2.7**	UG/L	0.12	=	-	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	CHLOROFORM	< 0.12	UG/L	0.12	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	CHLOROFORM	< 0.12	UG/L	0.12	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	CHLOROFORM	< 0.12	UG/L	0.12	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	CHLOROFORM	< 0.12	UG/L	0.12	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	CHLOROMETHANE	< 0.4	UG/L	0.4	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	CHLOROMETHANE	< 0.4	UG/L	0.4	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	CHLOROMETHANE	< 0.4	UG/L	0.4	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	CHLOROMETHANE	< 0.4	UG/L	0.4	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	CHLOROMETHANE	< 0.4	UG/L	0.4	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	CHLOROMETHANE	< 0.4	UG/L	0.4	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	CHLOROMETHANE	< 0.4	UG/L	0.4	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	CHLOROMETHANE	< 0.4	UG/L	0.4	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	CHLOROMETHANE	< 0.4	UG/L	0.4	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	CHLOROMETHANE	< 0.4	UG/L	0.4	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	CHLOROMETHANE	< 0.4	UG/L	0.4	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	CHLOROMETHANE	< 0.4	UG/L	0.4	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	CHLOROMETHANE	< 0.4	UG/L	0.4	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	CHLOROMETHANE	< 0.4	UG/L	0.4	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	CHLOROMETHANE	< 0.4	UG/L	0.4	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	CHLOROMETHANE	< 0.4	UG/L	0.4	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW6010B	CHROMIUM	< 0.0059	MG/L	0.0059	ND	UJ	M
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW6010B	CHROMIUM	< 0.0059	MG/L	0.0059	ND	UJ	M
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW6010B	CHROMIUM	< 0.0059	MG/L	0.0059	ND	UJ	M
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW6010B	CHROMIUM	< 0.0059	MG/L	0.0059	ND	UJ	M
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW6010B	CHROMIUM	< 0.0059	MG/L	0.0059	ND	UJ	M
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW6010B	CHROMIUM	< 0.0059	MG/L	0.0059	ND	UJ	M
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW6010B	CHROMIUM	< 0.0059	MG/L	0.0059	ND	UJ	M
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW6010B	CHROMIUM	< 0.0059	MG/L	0.0059	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW6010B	CHROMIUM	< 0.0059	MG/L	0.0059	ND	UJ	M
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW6010B	CHROMIUM	< 0.0059	MG/L	0.0059	ND	UJ	M
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW6010B	CHROMIUM	< 0.0059	MG/L	0.0059	ND	UJ	M
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW6010B	CHROMIUM	**0.0151**	MG/L	0.0059	TR	J	T
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW6010B	CHROMIUM	< 0.0059	MG/L	0.0059	ND	UJ	M
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW6010B	CHROMIUM	< 0.0059	MG/L	0.0059	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW6010B	CHROMIUM	< 0.0059	MG/L	0.0059	ND	UJ	M
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW6010B	CHROMIUM	< 0.0059	MG/L	0.0059	ND	UJ	M
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	cis-1,2-DICHLOROETHYLENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	cis-1,2-DICHLOROETHYLENE	**130**	UG/L	3.3	=	-	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	cis-1,2-DICHLOROETHYLENE	**150**	UG/L	3.3	=	-	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	cis-1,2-DICHLOROETHYLENE	**140**	UG/L	3.3	=	-	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	cis-1,2-DICHLOROETHYLENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	cis-1,2-DICHLOROETHYLENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	cis-1,2-DICHLOROETHYLENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	cis-1,2-DICHLOROETHYLENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	cis-1,2-DICHLOROETHYLENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	cis-1,2-DICHLOROETHYLENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	cis-1,2-DICHLOROETHYLENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	cis-1,2-DICHLOROETHYLENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	cis-1,2-DICHLOROETHYLENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	cis-1,2-DICHLOROETHYLENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	cis-1,2-DICHLOROETHYLENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	cis-1,2-DICHLOROETHYLENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	cis-1,3-DICHLOROPROPENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	cis-1,3-DICHLOROPROPENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	cis-1,3-DICHLOROPROPENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	cis-1,3-DICHLOROPROPENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	cis-1,3-DICHLOROPROPENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	cis-1,3-DICHLOROPROPENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	cis-1,3-DICHLOROPROPENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	cis-1,3-DICHLOROPROPENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	cis-1,3-DICHLOROPROPENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	cis-1,3-DICHLOROPROPENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	cis-1,3-DICHLOROPROPENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	cis-1,3-DICHLOROPROPENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	cis-1,3-DICHLOROPROPENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	cis-1,3-DICHLOROPROPENE	< 0.17	UG/L	0.17	ND	U	- -
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	cis-1,3-DICHLOROPROPENE	< 0.17	UG/L	0.17	ND	U	- -

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	cis-1,3-DICHLOROPROPENE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW6010B	COBALT	**0.00619**	MG/L	0.0059	TR	J	T
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW6010B	COBALT	**0.00868**	MG/L	0.0059	TR	J+	M,T
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW6010B	COBALT	< 0.0059	MG/L	0.0059	ND	UJ	M
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW6010B	COBALT	**0.00686**	MG/L	0.0059	TR	J+	M,T
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW6010B	COBALT	< 0.0059	MG/L	0.0059	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW6010B	COBALT	< 0.0059	MG/L	0.0059	ND	UJ	M
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW6010B	COBALT	< 0.0059	MG/L	0.0059	ND	UJ	M
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW6010B	COBALT	< 0.0059	MG/L	0.0059	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW6010B	COBALT	**0.0357**	MG/L	0.0059	=	J-	M
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW6010B	COBALT	**0.0169**	MG/L	0.0059	TR	J+	M,T
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW6010B	COBALT	< 0.0059	MG/L	0.0059	ND	UJ	M
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW6010B	COBALT	< 0.0059	MG/L	0.0059	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW6010B	COBALT	< 0.0059	MG/L	0.0059	ND	UJ	M
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW6010B	COBALT	< 0.0059	MG/L	0.0059	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW6010B	COBALT	< 0.0059	MG/L	0.0059	ND	UJ	M
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW6010B	COBALT	< 0.0059	MG/L	0.0059	ND	UJ	M
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW6010B	COPPER	< 0.0046	MG/L	0.0046	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW6010B	COPPER	< 0.0046	MG/L	0.0046	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW6010B	COPPER	< 0.0046	MG/L	0.0046	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW6010B	COPPER	< 0.0046	MG/L	0.0046	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW6010B	COPPER	< 0.0046	MG/L	0.0046	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW6010B	COPPER	< 0.0046	MG/L	0.0046	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW6010B	COPPER	< 0.0046	MG/L	0.0046	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW6010B	COPPER	< 0.0046	MG/L	0.0046	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW6010B	COPPER	< 0.0046	MG/L	0.0046	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW6010B	COPPER	< 0.0046	MG/L	0.0046	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW6010B	COPPER	< 0.0046	MG/L	0.0046	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW6010B	COPPER	< 0.0046	MG/L	0.0046	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW6010B	COPPER	< 0.0046	MG/L	0.0046	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW6010B	COPPER	< 0.0046	MG/L	0.0046	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW6010B	COPPER	< 0.0046	MG/L	0.0046	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW6010B	COPPER	< 0.0046	MG/L	0.0046	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	DIBROMOCHLOROMETHANE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	DIBROMOCHLOROMETHANE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	DIBROMOCHLOROMETHANE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	DIBROMOCHLOROMETHANE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	DIBROMOCHLOROMETHANE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	DIBROMOCHLOROMETHANE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	DIBROMOCHLOROMETHANE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	DIBROMOCHLOROMETHANE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	DIBROMOCHLOROMETHANE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	DIBROMOCHLOROMETHANE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	DIBROMOCHLOROMETHANE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	DIBROMOCHLOROMETHANE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	DIBROMOCHLOROMETHANE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	DIBROMOCHLOROMETHANE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	DIBROMOCHLOROMETHANE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	DIBROMOCHLOROMETHANE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	DIBROMOMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	DIBROMOMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	DIBROMOMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	DIBROMOMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	DIBROMOMETHANE	< 0.15	UG/L	0.15	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	DIBROMOMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	DIBROMOMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	DIBROMOMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	DIBROMOMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	DIBROMOMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	DIBROMOMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	DIBROMOMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	DIBROMOMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	DIBROMOMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	DIBROMOMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	DIBROMOMETHANE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	DICHLORODIFLUOROMETHANE	< 0.42	UG/L	0.42	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	DICHLORODIFLUOROMETHANE	< 0.42	UG/L	0.42	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	DICHLORODIFLUOROMETHANE	< 0.42	UG/L	0.42	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	DICHLORODIFLUOROMETHANE	< 0.42	UG/L	0.42	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	DICHLORODIFLUOROMETHANE	< 0.42	UG/L	0.42	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	DICHLORODIFLUOROMETHANE	< 0.42	UG/L	0.42	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	DICHLORODIFLUOROMETHANE	< 0.42	UG/L	0.42	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	DICHLORODIFLUOROMETHANE	< 0.42	UG/L	0.42	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	DICHLORODIFLUOROMETHANE	< 0.42	UG/L	0.42	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	DICHLORODIFLUOROMETHANE	< 0.42	UG/L	0.42	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	DICHLORODIFLUOROMETHANE	< 0.42	UG/L	0.42	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	DICHLORODIFLUOROMETHANE	< 0.42	UG/L	0.42	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	DICHLORODIFLUOROMETHANE	< 0.42	UG/L	0.42	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	DICHLORODIFLUOROMETHANE	< 0.42	UG/L	0.42	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	DICHLORODIFLUOROMETHANE	< 0.42	UG/L	0.42	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	DICHLORODIFLUOROMETHANE	< 0.42	UG/L	0.42	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8015B	DIESEL (C10-C24)	< 20	UG/L	20	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8015B	DIESEL (C10-C24)	< 20	UG/L	20	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8015B	DIESEL (C10-C24)	< 21	UG/L	21	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8015B	DIESEL (C10-C24)	< 21	UG/L	21	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8015B	DIESEL (C10-C24)	< 20	UG/L	20	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8015B	DIESEL (C10-C24)	< 21	UG/L	21	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8015B	DIESEL (C10-C24)	< 23	UG/L	23	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8015B	DIESEL (C10-C24)	< 20	UG/L	20	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8015B	DIESEL (C10-C24)	< 21	UG/L	21	ND	UJ	2
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8015B	DIESEL (C10-C24)	< 20	UG/L	20	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8015B	DIESEL (C10-C24)	< 21	UG/L	21	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8015B	DIESEL (C10-C24)	< 20	UG/L	20	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8015B	DIESEL (C10-C24)	< 21	UG/L	21	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8015B	DIESEL (C10-C24)	< 21	UG/L	21	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8015B	DIESEL (C10-C24)	< 21	UG/L	21	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8015B	DIESEL (C10-C24)	< 21	UG/L	21	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	ETHYL tert-BUTYL ETHER	< 0.12	UG/L	0.12	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	ETHYL tert-BUTYL ETHER	< 0.12	UG/L	0.12	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	ETHYL tert-BUTYL ETHER	< 0.12	UG/L	0.12	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	ETHYL tert-BUTYL ETHER	< 0.12	UG/L	0.12	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	ETHYL tert-BUTYL ETHER	< 0.12	UG/L	0.12	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	ETHYL tert-BUTYL ETHER	< 0.12	UG/L	0.12	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	ETHYL tert-BUTYL ETHER	< 0.12	UG/L	0.12	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	ETHYL tert-BUTYL ETHER	< 0.12	UG/L	0.12	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	ETHYL tert-BUTYL ETHER	< 0.12	UG/L	0.12	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	ETHYL tert-BUTYL ETHER	< 0.12	UG/L	0.12	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	ETHYL tert-BUTYL ETHER	< 0.12	UG/L	0.12	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	ETHYL tert-BUTYL ETHER	< 0.12	UG/L	0.12	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	ETHYL tert-BUTYL ETHER	< 0.12	UG/L	0.12	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	ETHYL tert-BUTYL ETHER	< 0.12	UG/L	0.12	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	ETHYL tert-BUTYL ETHER	< 0.12	UG/L	0.12	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	ETHYL tert-BUTYL ETHER	< 0.12	UG/L	0.12	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	ETHYLBENZENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	ETHYLBENZENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	ETHYLBENZENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	ETHYLBENZENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	ETHYLBENZENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	ETHYLBENZENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	ETHYLBENZENE	**0.29**	UG/L	0.11	TR	J	T
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	ETHYLBENZENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	ETHYLBENZENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	ETHYLBENZENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	ETHYLBENZENE	**0.52**	UG/L	0.11	TR	J	T
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	ETHYLBENZENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	ETHYLBENZENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	ETHYLBENZENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	ETHYLBENZENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	ETHYLBENZENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8015B	GASOLINE (~C6-C10)	< 6	UG/L	6	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8015B	GASOLINE (~C6-C10)	**10**	UG/L	6	TR	J	T
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8015B	GASOLINE (~C6-C10)	**8.5**	UG/L	6	TR	J	T
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8015B	GASOLINE (~C6-C10)	**6.1**	UG/L	6	TR	J	T
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8015B	GASOLINE (~C6-C10)	< 6	UG/L	6	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8015B	GASOLINE (~C6-C10)	< 6	UG/L	6	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8015B	GASOLINE (~C6-C10)	9.6	UG/L	6	TR	J	T
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8015B	GASOLINE (~C6-C10)	< 6	UG/L	6	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8015B	GASOLINE (~C6-C10)	< 6	UG/L	6	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8015B	GASOLINE (~C6-C10)	< 6	UG/L	6	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8015B	GASOLINE (~C6-C10)	21	UG/L	6	TR	J	T
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8015B	GASOLINE (~C6-C10)	< 6	UG/L	6	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8015B	GASOLINE (~C6-C10)	< 6	UG/L	6	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8015B	GASOLINE (~C6-C10)	< 6	UG/L	6	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8015B	GASOLINE (~C6-C10)	< 6	UG/L	6	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8015B	GASOLINE (~C6-C10)	< 6	UG/L	6	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	HEXACHLOROBUTADIENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	HEXACHLOROBUTADIENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	HEXACHLOROBUTADIENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	HEXACHLOROBUTADIENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	HEXACHLOROBUTADIENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	HEXACHLOROBUTADIENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	HEXACHLOROBUTADIENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	HEXACHLOROBUTADIENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	HEXACHLOROBUTADIENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	HEXACHLOROBUTADIENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	HEXACHLOROBUTADIENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	HEXACHLOROBUTADIENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	HEXACHLOROBUTADIENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	HEXACHLOROBUTADIENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	HEXACHLOROBUTADIENE	< 0.19	UG/L	0.19	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	HEXACHLOROBUTADIENE	< 0.19	UG/L	0.19	ND	U	- -
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	IODOMETHANE	< 0.25	UG/L	0.25	ND	U	- -

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	IODOMETHANE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	IODOMETHANE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	IODOMETHANE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	IODOMETHANE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	IODOMETHANE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	IODOMETHANE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	IODOMETHANE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	IODOMETHANE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	IODOMETHANE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	IODOMETHANE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	IODOMETHANE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	IODOMETHANE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	IODOMETHANE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	IODOMETHANE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	IODOMETHANE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW6010B	IRON	**1.07**	MG/L	0.025	=	-	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW6010B	IRON	**11.1**	MG/L	0.025	=	-	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW6010B	IRON	**10.3**	MG/L	0.025	=	-	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW6010B	IRON	**10.2**	MG/L	0.025	=	-	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW6010B	IRON	**17.6**	MG/L	0.025	=	-	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW6010B	IRON	**34**	MG/L	0.025	=	-	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW6010B	IRON	**0.706**	MG/L	0.025	TR	J	T
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW6010B	IRON	< 0.025	MG/L	0.025	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW6010B	IRON	**10.2**	MG/L	0.025	=	-	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW6010B	IRON	< 0.025	MG/L	0.025	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW6010B	IRON	**1.81**	MG/L	0.025	=	-	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW6010B	IRON	**0.0369**	MG/L	0.025	TR	J	T

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW6010B	IRON	**0.0311**	MG/L	0.025	TR	J	T
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW6010B	IRON	< 0.025	MG/L	0.025	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW6010B	IRON	< 0.025	MG/L	0.025	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW6010B	IRON	**0.631**	MG/L	0.025	TR	J	T
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	ISOPROPYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	ISOPROPYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	ISOPROPYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	ISOPROPYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	ISOPROPYL ETHER	**2.8**	UG/L	0.13	TR	J	T
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	ISOPROPYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	ISOPROPYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	ISOPROPYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	ISOPROPYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	ISOPROPYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	ISOPROPYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	ISOPROPYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	ISOPROPYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	ISOPROPYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	ISOPROPYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	ISOPROPYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	ISOPROPYLBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	ISOPROPYLBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	ISOPROPYLBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	ISOPROPYLBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	ISOPROPYLBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	ISOPROPYLBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	ISOPROPYLBENZENE	< 0.16	UG/L	0.16	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	ISOPROPYLBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	ISOPROPYLBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	ISOPROPYLBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	ISOPROPYLBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	ISOPROPYLBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	ISOPROPYLBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	ISOPROPYLBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	ISOPROPYLBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	ISOPROPYLBENZENE	< 0.16	UG/L	0.16	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW6010B	LEAD	< 0.002	MG/L	0.002	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW6010B	LEAD	< 0.002	MG/L	0.002	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW6010B	LEAD	< 0.002	MG/L	0.002	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW6010B	LEAD	< 0.002	MG/L	0.002	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW6010B	LEAD	< 0.002	MG/L	0.002	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW6010B	LEAD	< 0.002	MG/L	0.002	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW6010B	LEAD	< 0.002	MG/L	0.002	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW6010B	LEAD	< 0.002	MG/L	0.002	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW6010B	LEAD	< 0.002	MG/L	0.002	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW6010B	LEAD	< 0.002	MG/L	0.002	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW6010B	LEAD	< 0.002	MG/L	0.002	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW6010B	LEAD	< 0.002	MG/L	0.002	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW6010B	LEAD	< 0.002	MG/L	0.002	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW6010B	LEAD	< 0.002	MG/L	0.002	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW6010B	LEAD	< 0.002	MG/L	0.002	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW6010B	LEAD	< 0.002	MG/L	0.002	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	m,p-XYLENE	< 0.24	UG/L	0.24	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	m,p-XYLENE	**0.57**	UG/L	0.24	TR	J	T

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	m,p-XYLENE	0.66	UG/L	0.24	TR	J	T
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	m,p-XYLENE	0.28	UG/L	0.24	TR	J	T
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	m,p-XYLENE	< 0.24	UG/L	0.24	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	m,p-XYLENE	< 0.24	UG/L	0.24	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	m,p-XYLENE	1.2	UG/L	0.24	TR	J	T
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	m,p-XYLENE	< 0.24	UG/L	0.24	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	m,p-XYLENE	< 0.24	UG/L	0.24	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	m,p-XYLENE	< 0.24	UG/L	0.24	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	m,p-XYLENE	2.5	UG/L	0.24	=	-	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	m,p-XYLENE	< 0.24	UG/L	0.24	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	m,p-XYLENE	< 0.24	UG/L	0.24	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	m,p-XYLENE	< 0.24	UG/L	0.24	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	m,p-XYLENE	< 0.24	UG/L	0.24	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	m,p-XYLENE	< 0.24	UG/L	0.24	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW6010B	MAGNESIUM	454	MG/L	0.0544	=	-	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW6010B	MAGNESIUM	250	MG/L	0.0544	=	-	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW6010B	MAGNESIUM	235	MG/L	0.0544	=	-	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW6010B	MAGNESIUM	233	MG/L	0.0544	=	-	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW6010B	MAGNESIUM	1280	MG/L	0.544	=	-	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW6010B	MAGNESIUM	229	MG/L	0.0544	=	-	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW6010B	MAGNESIUM	405	MG/L	0.0544	=	-	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW6010B	MAGNESIUM	34	MG/L	0.0544	=	-	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW6010B	MAGNESIUM	933	MG/L	0.0544	=	-	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW6010B	MAGNESIUM	3340	MG/L	5.44	=	-	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW6010B	MAGNESIUM	389	MG/L	0.0544	=	-	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW6010B	MAGNESIUM	32.7	MG/L	0.0544	=	-	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW6010B	MAGNESIUM	78.9	MG/L	0.0544	=	-	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW6010B	MAGNESIUM	51	MG/L	0.0544	=	-	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW6010B	MAGNESIUM	67.5	MG/L	0.0544	=	-	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW6010B	MAGNESIUM	67.8	MG/L	0.0544	=	-	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW6010B	MANGANESE	1.85	MG/L	0.0015	=	-	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW6010B	MANGANESE	2.82	MG/L	0.0015	=	-	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW6010B	MANGANESE	2.64	MG/L	0.0015	=	-	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW6010B	MANGANESE	2.57	MG/L	0.0015	=	-	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW6010B	MANGANESE	3.94	MG/L	0.0015	=	-	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW6010B	MANGANESE	5.75	MG/L	0.0015	=	-	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW6010B	MANGANESE	1.76	MG/L	0.0015	=	-	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW6010B	MANGANESE	0.00168	MG/L	0.0015	TR	J	T
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW6010B	MANGANESE	21.3	MG/L	0.0015	=	-	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW6010B	MANGANESE	30.7	MG/L	0.0015	=	-	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW6010B	MANGANESE	3.42	MG/L	0.0015	=	-	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW6010B	MANGANESE	0.0271	MG/L	0.0015	TR	J	T
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW6010B	MANGANESE	0.416	MG/L	0.0015	=	-	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW6010B	MANGANESE	0.0427	MG/L	0.0015	TR	J	T
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW6010B	MANGANESE	0.112	MG/L	0.0015	=	-	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW6010B	MANGANESE	0.154	MG/L	0.0015	=	-	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW7470A	MERCURY	< 0.00015	MG/L	0.00015	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW7470A	MERCURY	< 0.00015	MG/L	0.00015	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW7470A	MERCURY	< 0.00015	MG/L	0.00015	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW7470A	MERCURY	< 0.00015	MG/L	0.00015	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW7470A	MERCURY	< 0.00015	MG/L	0.00015	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW7470A	MERCURY	< 0.00015	MG/L	0.00015	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW7470A	MERCURY	< 0.00015	MG/L	0.00015	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW7470A	MERCURY	< 0.00015	MG/L	0.00015	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW7470A	MERCURY	< 0.00015	MG/L	0.00015	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW7470A	MERCURY	< 0.00015	MG/L	0.00015	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW7470A	MERCURY	< 0.00015	MG/L	0.00015	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW7470A	MERCURY	< 0.00015	MG/L	0.00015	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW7470A	MERCURY	< 0.00015	MG/L	0.00015	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW7470A	MERCURY	< 0.00015	MG/L	0.00015	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW7470A	MERCURY	< 0.00015	MG/L	0.00015	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW7470A	MERCURY	< 0.00015	MG/L	0.00015	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	METHYL ETHYL KETONE	< 1.8	UG/L	1.8	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	METHYL ETHYL KETONE	< 1.8	UG/L	1.8	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	METHYL ETHYL KETONE	< 1.8	UG/L	1.8	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	METHYL ETHYL KETONE	< 1.8	UG/L	1.8	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	METHYL ETHYL KETONE	**9.2**	UG/L	1.8	TR	J	T
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	METHYL ETHYL KETONE	< 1.8	UG/L	1.8	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	METHYL ETHYL KETONE	**3.2**	UG/L	1.8	TR	J	T
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	METHYL ETHYL KETONE	< 1.8	UG/L	1.8	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	METHYL ETHYL KETONE	< 1.8	UG/L	1.8	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	METHYL ETHYL KETONE	**3.4**	UG/L	1.8	TR	J	T
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	METHYL ETHYL KETONE	< 1.8	UG/L	1.8	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	METHYL ETHYL KETONE	< 1.8	UG/L	1.8	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	METHYL ETHYL KETONE	< 1.8	UG/L	1.8	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	METHYL ETHYL KETONE	< 1.8	UG/L	1.8	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	METHYL ETHYL KETONE	< 1.8	UG/L	1.8	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	METHYL ETHYL KETONE	< 1.8	UG/L	1.8	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	METHYL ISOBUTYL KETONE	< 1	UG/L	1	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	METHYL ISOBUTYL KETONE	< 1	UG/L	1	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	METHYL ISOBUTYL KETONE	< 1	UG/L	1	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	METHYL ISOBUTYL KETONE	< 1	UG/L	1	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	METHYL ISOBUTYL KETONE	< 1	UG/L	1	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	METHYL ISOBUTYL KETONE	< 1	UG/L	1	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	METHYL ISOBUTYL KETONE	< 1	UG/L	1	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	METHYL ISOBUTYL KETONE	< 1	UG/L	1	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	METHYL ISOBUTYL KETONE	< 1	UG/L	1	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	METHYL ISOBUTYL KETONE	< 1	UG/L	1	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	METHYL ISOBUTYL KETONE	< 1	UG/L	1	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	METHYL ISOBUTYL KETONE	< 1	UG/L	1	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	METHYL ISOBUTYL KETONE	< 1	UG/L	1	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	METHYL ISOBUTYL KETONE	< 1	UG/L	1	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	METHYL ISOBUTYL KETONE	< 1	UG/L	1	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	METHYL ISOBUTYL KETONE	< 1	UG/L	1	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	METHYL MERCAPTAN	11	UG/L	0	TI	NJ	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	METHYL tert-BUTYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	METHYL tert-BUTYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	METHYL tert-BUTYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	METHYL tert-BUTYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	METHYL tert-BUTYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	METHYL tert-BUTYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	METHYL tert-BUTYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	METHYL tert-BUTYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	METHYL tert-BUTYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	METHYL tert-BUTYL ETHER	0.48	UG/L	0.13	TR	J	T
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	METHYL tert-BUTYL ETHER	1.1	UG/L	0.13	=	-	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	METHYL tert-BUTYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	METHYL tert-BUTYL ETHER	< 0.13	UG/L	0.13	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	METHYL tert-BUTYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	METHYL tert-BUTYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	METHYL tert-BUTYL ETHER	< 0.13	UG/L	0.13	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	METHYLENE CHLORIDE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	METHYLENE CHLORIDE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	METHYLENE CHLORIDE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	METHYLENE CHLORIDE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	METHYLENE CHLORIDE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	METHYLENE CHLORIDE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	METHYLENE CHLORIDE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	METHYLENE CHLORIDE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	METHYLENE CHLORIDE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	METHYLENE CHLORIDE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	METHYLENE CHLORIDE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	METHYLENE CHLORIDE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	METHYLENE CHLORIDE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	METHYLENE CHLORIDE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	METHYLENE CHLORIDE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	METHYLENE CHLORIDE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW6010B	MOLYBDENUM	< 0.0184	MG/L	0.0184	ND	UJ	M
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW6010B	MOLYBDENUM	< 0.0056	MG/L	0.0056	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW6010B	MOLYBDENUM	< 0.0056	MG/L	0.0056	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW6010B	MOLYBDENUM	< 0.0056	MG/L	0.0056	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW6010B	MOLYBDENUM	< 0.0056	MG/L	0.0056	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW6010B	MOLYBDENUM	**0.0128**	MG/L	0.0056	TR	J	T
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW6010B	MOLYBDENUM	**0.0211**	MG/L	0.0056	TR	J	T
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW6010B	MOLYBDENUM	< 0.0056	MG/L	0.0056	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW6010B	MOLYBDENUM	**0.028**	MG/L	0.0056	TR	J+	M,T
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW6010B	MOLYBDENUM	**0.0565**	MG/L	0.0056	TR	J	T
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW6010B	MOLYBDENUM	< 0.00747	MG/L	0.00747	ND	UJ	M
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW6010B	MOLYBDENUM	< 0.0056	MG/L	0.0056	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW6010B	MOLYBDENUM	< 0.0056	MG/L	0.0056	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW6010B	MOLYBDENUM	< 0.0056	MG/L	0.0056	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW6010B	MOLYBDENUM	< 0.0056	MG/L	0.0056	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW6010B	MOLYBDENUM	< 0.0056	MG/L	0.0056	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8015B	MOTOR OIL (C20-C36)	< 59	UG/L	59	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8015B	MOTOR OIL (C20-C36)	< 60	UG/L	60	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8015B	MOTOR OIL (C20-C36)	< 61	UG/L	61	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8015B	MOTOR OIL (C20-C36)	< 63	UG/L	63	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8015B	MOTOR OIL (C20-C36)	< 59	UG/L	59	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8015B	MOTOR OIL (C20-C36)	< 62	UG/L	62	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8015B	MOTOR OIL (C20-C36)	< 69	UG/L	69	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8015B	MOTOR OIL (C20-C36)	< 58	UG/L	58	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8015B	MOTOR OIL (C20-C36)	< 58	UG/L	58	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8015B	MOTOR OIL (C20-C36)	**64**	UG/L	58	TR	J	T
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8015B	MOTOR OIL (C20-C36)	< 62	UG/L	62	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8015B	MOTOR OIL (C20-C36)	< 58	UG/L	58	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8015B	MOTOR OIL (C20-C36)	< 62	UG/L	62	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8015B	MOTOR OIL (C20-C36)	< 62	UG/L	62	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8015B	MOTOR OIL (C20-C36)	< 63	UG/L	63	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8015B	MOTOR OIL (C20-C36)	**85**	UG/L	63	TR	J	T
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	NAPHTHALENE	**8.5**	UG/L	0.27	=	J+	S
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	NAPHTHALENE	< 0.27	UG/L	0.27	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	NAPHTHALENE	< 0.27	UG/L	0.27	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	NAPHTHALENE	< 0.27	UG/L	0.27	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	NAPHTHALENE	< 0.27	UG/L	0.27	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	NAPHTHALENE	< 0.27	UG/L	0.27	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	NAPHTHALENE	< 0.27	UG/L	0.27	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	NAPHTHALENE	< 0.27	UG/L	0.27	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	NAPHTHALENE	< 0.27	UG/L	0.27	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	NAPHTHALENE	< 0.27	UG/L	0.27	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	NAPHTHALENE	< 0.27	UG/L	0.27	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	NAPHTHALENE	< 0.27	UG/L	0.27	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	NAPHTHALENE	< 0.27	UG/L	0.27	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	NAPHTHALENE	< 0.27	UG/L	0.27	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	NAPHTHALENE	< 0.27	UG/L	0.27	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	NAPHTHALENE	< 0.27	UG/L	0.27	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	n-BUTYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	n-BUTYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	n-BUTYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	n-BUTYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	n-BUTYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	n-BUTYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	n-BUTYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	n-BUTYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	n-BUTYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	n-BUTYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	n-BUTYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	n-BUTYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	n-BUTYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	n-BUTYLBENZENE	< 0.14	UG/L	0.14	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	n-BUTYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	n-BUTYLBENZENE	< 0.14	UG/L	0.14	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW6010B	NICKEL	**0.0105**	MG/L	0.0079	TR	J	T
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW6010B	NICKEL	< 0.0079	MG/L	0.0079	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW6010B	NICKEL	< 0.0079	MG/L	0.0079	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW6010B	NICKEL	< 0.0079	MG/L	0.0079	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW6010B	NICKEL	< 0.0079	MG/L	0.0079	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW6010B	NICKEL	< 0.0079	MG/L	0.0079	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW6010B	NICKEL	< 0.0079	MG/L	0.0079	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW6010B	NICKEL	< 0.0079	MG/L	0.0079	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW6010B	NICKEL	**0.0292**	MG/L	0.0079	TR	J	T
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW6010B	NICKEL	**0.0177**	MG/L	0.0079	TR	J	T
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW6010B	NICKEL	**0.0193**	MG/L	0.0079	TR	J	T
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW6010B	NICKEL	**0.0104**	MG/L	0.0079	TR	J	T
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW6010B	NICKEL	< 0.0079	MG/L	0.0079	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW6010B	NICKEL	< 0.0079	MG/L	0.0079	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW6010B	NICKEL	< 0.0079	MG/L	0.0079	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW6010B	NICKEL	< 0.0079	MG/L	0.0079	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	E300	NITRATE (AS N)	< 0.27	MG/L	0.27	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	E300	NITRATE (AS N)	< 0.27	MG/L	0.27	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	E300	NITRATE (AS N)	< 0.27	MG/L	0.27	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	E300	NITRATE (AS N)	< 0.27	MG/L	0.27	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	E300	NITRATE (AS N)	< 0.27	MG/L	0.27	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	E300	NITRATE (AS N)	< 0.27	MG/L	0.27	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	E300	NITRATE (AS N)	< 0.27	MG/L	0.27	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	E300	NITRATE (AS N)	< 0.27	MG/L	0.27	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	E300	NITRATE (AS N)	**7.98**	MG/L	0.135	=	-	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	E300	NITRATE (AS N)	1.37	MG/L	0.027	=	-	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	E300	NITRATE (AS N)	4.49	MG/L	0.135	=	-	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	E300	NITRATE (AS N)	15.2	MG/L	0.135	=	-	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	E300	NITRATE (AS N)	15.1	MG/L	0.135	=	-	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	E300	NITRATE-NITRITE (AS N)	9.38	MG/L	0.27	=	-	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	E300	NITRATE-NITRITE (AS N)	< 0.27	MG/L	0.27	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	E300	NITRATE-NITRITE (AS N)	0.7	MG/L	0.27	TR	J	T
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	E300	NITRITE (AS N)	< 0.525	MG/L	0.525	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	E300	NITRITE (AS N)	< 2.1	MG/L	2.1	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	E300	NITRITE (AS N)	< 2.1	MG/L	2.1	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	E300	NITRITE (AS N)	< 2.1	MG/L	2.1	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	E300	NITRITE (AS N)	< 0.525	MG/L	0.525	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	E300	NITRITE (AS N)	< 0.21	MG/L	0.21	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	E300	NITRITE (AS N)	< 2.1	MG/L	2.1	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	E300	NITRITE (AS N)	< 2.1	MG/L	2.1	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	E300	NITRITE (AS N)	< 0.105	MG/L	0.105	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	E300	NITRITE (AS N)	< 0.021	MG/L	0.021	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	E300	NITRITE (AS N)	< 0.105	MG/L	0.105	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	E300	NITRITE (AS N)	< 0.105	MG/L	0.105	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	E300	NITRITE (AS N)	< 0.105	MG/L	0.105	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	n-PROPYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	n-PROPYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	n-PROPYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	n-PROPYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	n-PROPYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	n-PROPYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	n-PROPYLBENZENE	< 0.15	UG/L	0.15	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	n-PROPYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	n-PROPYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	n-PROPYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	n-PROPYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	n-PROPYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	n-PROPYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	n-PROPYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	n-PROPYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	n-PROPYLBENZENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	o-XYLENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	o-XYLENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	o-XYLENE	**0.23**	UG/L	0.12	TR	J	T
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	o-XYLENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	o-XYLENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	o-XYLENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	o-XYLENE	**0.49**	UG/L	0.12	TR	J	T
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	o-XYLENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	o-XYLENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	o-XYLENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	o-XYLENE	**1**	UG/L	0.12	=	-	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	o-XYLENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	o-XYLENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	o-XYLENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	o-XYLENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	o-XYLENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	P-CYMENE (p-ISOPROPYLTOLUENE)	< 0.18	UG/L	0.18	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	P-CYMENE (p-ISOPROPYLTOLUENE)	< 0.18	UG/L	0.18	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	P-CYMENE (p-ISOPROPYLTOLUENE)	< 0.18	UG/L	0.18	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	P-CYMENE (p-ISOPROPYLTOLUENE)	< 0.18	UG/L	0.18	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	P-CYMENE (p-ISOPROPYLTOLUENE)	< 0.18	UG/L	0.18	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	P-CYMENE (p-ISOPROPYLTOLUENE)	**9.6**	UG/L	0.18	=	-	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	P-CYMENE (p-ISOPROPYLTOLUENE)	< 0.18	UG/L	0.18	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	P-CYMENE (p-ISOPROPYLTOLUENE)	< 0.18	UG/L	0.18	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	P-CYMENE (p-ISOPROPYLTOLUENE)	< 0.18	UG/L	0.18	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	P-CYMENE (p-ISOPROPYLTOLUENE)	< 0.18	UG/L	0.18	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	P-CYMENE (p-ISOPROPYLTOLUENE)	< 0.18	UG/L	0.18	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	P-CYMENE (p-ISOPROPYLTOLUENE)	< 0.18	UG/L	0.18	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	P-CYMENE (p-ISOPROPYLTOLUENE)	< 0.18	UG/L	0.18	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	P-CYMENE (p-ISOPROPYLTOLUENE)	< 0.18	UG/L	0.18	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	P-CYMENE (p-ISOPROPYLTOLUENE)	< 0.18	UG/L	0.18	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	P-CYMENE (p-ISOPROPYLTOLUENE)	< 0.18	UG/L	0.18	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW6010B	POTASSIUM	**101**	MG/L	0.712	=	-	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW6010B	POTASSIUM	**56.1**	MG/L	0.712	=	-	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW6010B	POTASSIUM	**52.6**	MG/L	0.712	=	-	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW6010B	POTASSIUM	**52.7**	MG/L	0.712	=	-	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW6010B	POTASSIUM	**135**	MG/L	0.712	=	-	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW6010B	POTASSIUM	**20.1**	MG/L	0.712	=	-	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW6010B	POTASSIUM	**110**	MG/L	0.712	=	-	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW6010B	POTASSIUM	**1.07**	MG/L	0.712	TR	J	T
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW6010B	POTASSIUM	**84.2**	MG/L	0.712	=	-	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW6010B	POTASSIUM	**134**	MG/L	0.712	=	-	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW6010B	POTASSIUM	**86.5**	MG/L	0.712	=	-	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW6010B	POTASSIUM	**3.44**	MG/L	0.712	TR	J	T
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW6010B	POTASSIUM	**1.72**	MG/L	0.712	TR	J	T

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW6010B	POTASSIUM	**1.92**	MG/L	0.712	TR	J	T
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW6010B	POTASSIUM	**2.7**	MG/L	0.712	TR	J	T
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW6010B	POTASSIUM	**2.99**	MG/L	0.712	TR	J	T
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	sec-BUTYLBENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	sec-BUTYLBENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	sec-BUTYLBENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	sec-BUTYLBENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	sec-BUTYLBENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	sec-BUTYLBENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	sec-BUTYLBENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	sec-BUTYLBENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	sec-BUTYLBENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	sec-BUTYLBENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	sec-BUTYLBENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	sec-BUTYLBENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	sec-BUTYLBENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	sec-BUTYLBENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	sec-BUTYLBENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	sec-BUTYLBENZENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW6010B	SELENIUM	< 0.0042	MG/L	0.0042	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW6010B	SELENIUM	< 0.0042	MG/L	0.0042	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW6010B	SELENIUM	< 0.0042	MG/L	0.0042	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW6010B	SELENIUM	< 0.0042	MG/L	0.0042	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW6010B	SELENIUM	< 0.0042	MG/L	0.0042	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW6010B	SELENIUM	< 0.0042	MG/L	0.0042	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW6010B	SELENIUM	< 0.0042	MG/L	0.0042	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW7740	SELENIUM	< 0.001	MG/L	0.001	ND	UJ	4L

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW6010B	SELENIUM	< 0.0042	MG/L	0.0042	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW6010B	SELENIUM	< 0.0042	MG/L	0.0042	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW6010B	SELENIUM	< 0.0042	MG/L	0.0042	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW7740	SELENIUM	< 0.001	MG/L	0.001	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW7740	SELENIUM	< 0.001	MG/L	0.001	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW7740	SELENIUM	< 0.001	MG/L	0.001	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW7740	SELENIUM	< 0.001	MG/L	0.001	ND	U	8
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW7740	SELENIUM	**0.00139**	MG/L	0.001	TR	J	T
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW6010B	SILVER	< 0.0112	MG/L	0.0112	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW6010B	SILVER	< 0.0112	MG/L	0.0112	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW6010B	SILVER	< 0.0112	MG/L	0.0112	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW6010B	SILVER	< 0.0112	MG/L	0.0112	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW6010B	SILVER	< 0.0112	MG/L	0.0112	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW6010B	SILVER	< 0.0112	MG/L	0.0112	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW6010B	SILVER	< 0.0112	MG/L	0.0112	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW6010B	SILVER	< 0.0112	MG/L	0.0112	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW6010B	SILVER	< 0.0112	MG/L	0.0112	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW6010B	SILVER	< 0.0112	MG/L	0.0112	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW6010B	SILVER	< 0.0112	MG/L	0.0112	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW6010B	SILVER	< 0.0112	MG/L	0.0112	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW6010B	SILVER	< 0.0112	MG/L	0.0112	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW6010B	SILVER	< 0.0112	MG/L	0.0112	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW6010B	SILVER	< 0.0112	MG/L	0.0112	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW6010B	SILVER	< 0.0112	MG/L	0.0112	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW6010B	SODIUM	**3950**	MG/L	0.618	=	-	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW6010B	SODIUM	**3090**	MG/L	0.618	=	-	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW6010B	SODIUM	**2820**	MG/L	0.618	=	-	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW6010B	SODIUM	2870	MG/L	0.618	=	-	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW6010B	SODIUM	6770	MG/L	0.618	=	-	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW6010B	SODIUM	1370	MG/L	0.618	=	-	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW6010B	SODIUM	3290	MG/L	0.618	=	-	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW6010B	SODIUM	93	MG/L	0.0618	=	-	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW6010B	SODIUM	5850	MG/L	0.618	=	-	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW6010B	SODIUM	20300	MG/L	6.18	=	-	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW6010B	SODIUM	3140	MG/L	0.618	=	-	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW6010B	SODIUM	314	MG/L	0.0618	=	-	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW6010B	SODIUM	79.8	MG/L	0.0618	=	-	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW6010B	SODIUM	72.9	MG/L	0.0618	=	-	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW6010B	SODIUM	55.8	MG/L	0.0618	=	-	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW6010B	SODIUM	57.9	MG/L	0.0618	=	-	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	STYRENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	STYRENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	STYRENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	STYRENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	STYRENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	STYRENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	STYRENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	STYRENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	STYRENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	STYRENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	STYRENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	STYRENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	STYRENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	STYRENE	< 0.11	UG/L	0.11	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	STYRENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	STYRENE	< 0.11	UG/L	0.11	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	E300	SULFATE	23.8	MG/L	0.67	=	-	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	E300	SULFATE	46.3	MG/L	0.67	=	-	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	E300	SULFATE	47.9	MG/L	0.67	=	-	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	E300	SULFATE	48.9	MG/L	0.67	=	-	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	E300	SULFATE	262	MG/L	0.67	=	-	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	E300	SULFATE	66.5	MG/L	0.67	=	-	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	E300	SULFATE	72.7	MG/L	0.67	=	-	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	E300	SULFATE	91.4	MG/L	6.7	TR	J	1,T
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	E300	SULFATE	658	MG/L	33.5	=	J	1
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	E300	SULFATE	3390	MG/L	33.5	=	J	1
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	E300	SULFATE	23.7	MG/L	0.67	=	-	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	E300	SULFATE	132	MG/L	0.335	=	-	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	E300	SULFATE	125	MG/L	0.335	=	-	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	E300	SULFATE	77.8	MG/L	0.335	=	-	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	E300	SULFATE	45.8	MG/L	0.335	=	-	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	E300	SULFATE	46	MG/L	0.335	=	-	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	tert-AMYL METHYL ETHER	< 0.15	UG/L	0.15	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	tert-AMYL METHYL ETHER	< 0.15	UG/L	0.15	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	tert-AMYL METHYL ETHER	< 0.15	UG/L	0.15	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	tert-AMYL METHYL ETHER	< 0.15	UG/L	0.15	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	tert-AMYL METHYL ETHER	< 0.15	UG/L	0.15	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	tert-AMYL METHYL ETHER	< 0.15	UG/L	0.15	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	tert-AMYL METHYL ETHER	< 0.15	UG/L	0.15	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	tert-AMYL METHYL ETHER	< 0.15	UG/L	0.15	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	tert-AMYL METHYL ETHER	< 0.15	UG/L	0.15	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	tert-AMYL METHYL ETHER	< 0.15	UG/L	0.15	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	tert-AMYL METHYL ETHER	< 0.15	UG/L	0.15	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	tert-AMYL METHYL ETHER	< 0.15	UG/L	0.15	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	tert-AMYL METHYL ETHER	< 0.15	UG/L	0.15	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	tert-AMYL METHYL ETHER	< 0.15	UG/L	0.15	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	tert-AMYL METHYL ETHER	< 0.15	UG/L	0.15	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	tert-AMYL METHYL ETHER	< 0.15	UG/L	0.15	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	tert-BUTYLBENZENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	tert-BUTYLBENZENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	tert-BUTYLBENZENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	tert-BUTYLBENZENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	tert-BUTYLBENZENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	tert-BUTYLBENZENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	tert-BUTYLBENZENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	tert-BUTYLBENZENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	tert-BUTYLBENZENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	tert-BUTYLBENZENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	tert-BUTYLBENZENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	tert-BUTYLBENZENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	tert-BUTYLBENZENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	tert-BUTYLBENZENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	tert-BUTYLBENZENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	tert-BUTYLBENZENE	< 0.13	UG/L	0.13	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	TETRACHLOROETHENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	TETRACHLOROETHENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	TETRACHLOROETHENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	TETRACHLOROETHENE	< 0.18	UG/L	0.18	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	TETRACHLOROETHENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	TETRACHLOROETHENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	TETRACHLOROETHENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	TETRACHLOROETHENE	**0.21**	UG/L	0.18	TR	J	T
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	TETRACHLOROETHENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	TETRACHLOROETHENE	**0.5**	UG/L	0.18	TR	J	T
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	TETRACHLOROETHENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	TETRACHLOROETHENE	**0.37**	UG/L	0.18	TR	J	T
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	TETRACHLOROETHENE	**0.33**	UG/L	0.18	TR	J	T
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	TETRACHLOROETHENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	TETRACHLOROETHENE	**0.24**	UG/L	0.18	TR	J	T
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	TETRACHLOROETHENE	**0.27**	UG/L	0.18	TR	J	T
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW6010B	THALLIUM	< 0.00919	MG/L	0.00919	ND	UJ	M
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW6010B	THALLIUM	< 0.006	MG/L	0.006	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW6010B	THALLIUM	< 0.006	MG/L	0.006	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW6010B	THALLIUM	< 0.006	MG/L	0.006	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW6010B	THALLIUM	< 0.006	MG/L	0.006	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW6010B	THALLIUM	< 0.006	MG/L	0.006	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW6010B	THALLIUM	< 0.00647	MG/L	0.00647	ND	UJ	M
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW7841	THALLIUM	< 0.0012	MG/L	0.0012	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW6010B	THALLIUM	< 0.006	MG/L	0.006	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW6010B	THALLIUM	< 0.006	MG/L	0.006	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW6010B	THALLIUM	< 0.006	MG/L	0.006	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW7841	THALLIUM	< 0.0012	MG/L	0.0012	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW7841	THALLIUM	< 0.0012	MG/L	0.0012	ND	UJ	S
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW7841	THALLIUM	< 0.0012	MG/L	0.0012	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW7841	THALLIUM	< 0.0012	MG/L	0.0012	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW7841	THALLIUM	< 0.0012	MG/L	0.0012	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW6010B	TIN	< 0.0334	MG/L	0.0334	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW6010B	TIN	< 0.0334	MG/L	0.0334	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW6010B	TIN	< 0.0334	MG/L	0.0334	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW6010B	TIN	< 0.0334	MG/L	0.0334	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW6010B	TIN	< 0.0334	MG/L	0.0334	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW6010B	TIN	< 0.0334	MG/L	0.0334	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW6010B	TIN	< 0.0334	MG/L	0.0334	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW6010B	TIN	< 0.0334	MG/L	0.0334	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW6010B	TIN	< 0.0334	MG/L	0.0334	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW6010B	TIN	**0.037**	MG/L	0.0334	TR	J+	M,T
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW6010B	TIN	< 0.0334	MG/L	0.0334	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW6010B	TIN	< 0.0334	MG/L	0.0334	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW6010B	TIN	< 0.0334	MG/L	0.0334	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW6010B	TIN	< 0.0334	MG/L	0.0334	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW6010B	TIN	< 0.0334	MG/L	0.0334	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW6010B	TIN	< 0.0334	MG/L	0.0334	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	TOLUENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	TOLUENE	**0.34**	UG/L	0.12	TR	J	T
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	TOLUENE	**0.49**	UG/L	0.12	TR	J	T
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	TOLUENE	**0.24**	UG/L	0.12	TR	J	T
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	TOLUENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	TOLUENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	TOLUENE	**1.1**	UG/L	0.12	=	-	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	TOLUENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	TOLUENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	TOLUENE	< 0.12	UG/L	0.12	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	TOLUENE	**2.3**	UG/L	0.12	=	-	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	TOLUENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	TOLUENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	TOLUENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	TOLUENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	TOLUENE	< 0.12	UG/L	0.12	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	E160.1	TOTAL DISSOLVED SOLIDS	**12100**	MG/L	42	=	-	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	E160.1	TOTAL DISSOLVED SOLIDS	**8830**	MG/L	42	=	-	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	E160.1	TOTAL DISSOLVED SOLIDS	**9250**	MG/L	42	=	-	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	E160.1	TOTAL DISSOLVED SOLIDS	**9270**	MG/L	42	=	-	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	E160.1	TOTAL DISSOLVED SOLIDS	**26000**	MG/L	84	=	-	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	E160.1	TOTAL DISSOLVED SOLIDS	**4940**	MG/L	16.8	=	-	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	E160.1	TOTAL DISSOLVED SOLIDS	**10600**	MG/L	42	=	-	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	E160.1	TOTAL DISSOLVED SOLIDS	**599**	MG/L	4.2	=	-	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	E160.1	TOTAL DISSOLVED SOLIDS	**20300**	MG/L	84	=	-	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	E160.1	TOTAL DISSOLVED SOLIDS	**65900**	MG/L	210	=	-	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	E160.1	TOTAL DISSOLVED SOLIDS	**9820**	MG/L	42	=	-	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	E160.1	TOTAL DISSOLVED SOLIDS	**906**	MG/L	4.2	=	-	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	E160.1	TOTAL DISSOLVED SOLIDS	**724**	MG/L	4.2	=	-	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	E160.1	TOTAL DISSOLVED SOLIDS	**565**	MG/L	4.2	=	-	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	E160.1	TOTAL DISSOLVED SOLIDS	**769**	MG/L	4.2	=	-	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	E160.1	TOTAL DISSOLVED SOLIDS	**745**	MG/L	4.2	=	-	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	trans-1,2-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	trans-1,2-DICHLOROETHENE	**63**	UG/L	3.8	=	-	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	trans-1,2-DICHLOROETHENE	**72**	UG/L	3.8	=	-	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	trans-1,2-DICHLOROETHENE	**72**	UG/L	3.8	=	-	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	trans-1,2-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	trans-1,2-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	trans-1,2-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	trans-1,2-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	trans-1,2-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	trans-1,2-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	trans-1,2-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	trans-1,2-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	trans-1,2-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	trans-1,2-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	trans-1,2-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	trans-1,2-DICHLOROETHENE	< 0.15	UG/L	0.15	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	trans-1,3-DICHLOROPROPENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	trans-1,3-DICHLOROPROPENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	trans-1,3-DICHLOROPROPENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	trans-1,3-DICHLOROPROPENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	trans-1,3-DICHLOROPROPENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	trans-1,3-DICHLOROPROPENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	trans-1,3-DICHLOROPROPENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	trans-1,3-DICHLOROPROPENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	trans-1,3-DICHLOROPROPENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	trans-1,3-DICHLOROPROPENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	trans-1,3-DICHLOROPROPENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	trans-1,3-DICHLOROPROPENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	trans-1,3-DICHLOROPROPENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	trans-1,3-DICHLOROPROPENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	trans-1,3-DICHLOROPROPENE	< 0.18	UG/L	0.18	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	trans-1,3-DICHLOROPROPENE	< 0.18	UG/L	0.18	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	TRICHLOROETHYLENE (TCE)	< 0.15	UG/L	0.15	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	TRICHLOROETHYLENE (TCE)	1.8	UG/L	0.15	=	-	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	TRICHLOROETHYLENE (TCE)	1.8	UG/L	0.15	=	-	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	TRICHLOROETHYLENE (TCE)	1.7	UG/L	0.15	=	-	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	TRICHLOROETHYLENE (TCE)	< 0.15	UG/L	0.15	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	TRICHLOROETHYLENE (TCE)	< 0.15	UG/L	0.15	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	TRICHLOROETHYLENE (TCE)	< 0.15	UG/L	0.15	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	TRICHLOROETHYLENE (TCE)	5.7	UG/L	0.15	=	-	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	TRICHLOROETHYLENE (TCE)	< 0.15	UG/L	0.15	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	TRICHLOROETHYLENE (TCE)	< 0.15	UG/L	0.15	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	TRICHLOROETHYLENE (TCE)	< 0.15	UG/L	0.15	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	TRICHLOROETHYLENE (TCE)	15	UG/L	0.15	=	-	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	TRICHLOROETHYLENE (TCE)	< 0.15	UG/L	0.15	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	TRICHLOROETHYLENE (TCE)	< 0.15	UG/L	0.15	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	TRICHLOROETHYLENE (TCE)	< 0.15	UG/L	0.15	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	TRICHLOROETHYLENE (TCE)	< 0.15	UG/L	0.15	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	TRICHLOROFLUOROMETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	TRICHLOROFLUOROMETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	TRICHLOROFLUOROMETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	TRICHLOROFLUOROMETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	TRICHLOROFLUOROMETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	TRICHLOROFLUOROMETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	TRICHLOROFLUOROMETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	TRICHLOROFLUOROMETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	TRICHLOROFLUOROMETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	TRICHLOROFLUOROMETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	TRICHLOROFLUOROMETHANE	< 0.17	UG/L	0.17	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	TRICHLOROFLUOROMETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	TRICHLOROFLUOROMETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	TRICHLOROFLUOROMETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	TRICHLOROFLUOROMETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	TRICHLOROFLUOROMETHANE	< 0.17	UG/L	0.17	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW6010B	VANADIUM	**0.00844**	MG/L	0.0035	TR	J	T
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW6010B	VANADIUM	< 0.0035	MG/L	0.0035	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW6010B	VANADIUM	< 0.0035	MG/L	0.0035	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW6010B	VANADIUM	< 0.0035	MG/L	0.0035	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW6010B	VANADIUM	**0.0169**	MG/L	0.0035	=	-	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW6010B	VANADIUM	< 0.0035	MG/L	0.0035	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW6010B	VANADIUM	**0.0292**	MG/L	0.0035	TR	J	Q,T
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW6010B	VANADIUM	< 0.0035	MG/L	0.0035	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW6010B	VANADIUM	**0.00995**	MG/L	0.0035	TR	J	Q,T
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW6010B	VANADIUM	**0.00596**	MG/L	0.0035	TR	J	Q,T
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW6010B	VANADIUM	**0.014**	MG/L	0.0035	TR	J	Q,T
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW6010B	VANADIUM	**0.012**	MG/L	0.0035	TR	J	Q,T
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW6010B	VANADIUM	< 0.0035	MG/L	0.0035	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW6010B	VANADIUM	< 0.0035	MG/L	0.0035	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW6010B	VANADIUM	< 0.0035	MG/L	0.0035	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW6010B	VANADIUM	**0.00359**	MG/L	0.0035	TR	J	Q,T
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	VINYL ACETATE	< 0.69	UG/L	0.69	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	VINYL ACETATE	< 0.69	UG/L	0.69	ND	U	-
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	VINYL ACETATE	< 0.69	UG/L	0.69	ND	U	-
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	VINYL ACETATE	< 0.69	UG/L	0.69	ND	U	-
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	VINYL ACETATE	< 0.69	UG/L	0.69	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	VINYL ACETATE	< 0.69	UG/L	0.69	ND	U	-

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	VINYL ACETATE	< 0.69	UG/L	0.69	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	VINYL ACETATE	< 0.69	UG/L	0.69	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	VINYL ACETATE	< 0.69	UG/L	0.69	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	VINYL ACETATE	< 0.69	UG/L	0.69	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	VINYL ACETATE	< 0.69	UG/L	0.69	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	VINYL ACETATE	< 0.69	UG/L	0.69	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	VINYL ACETATE	< 0.69	UG/L	0.69	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	VINYL ACETATE	< 0.69	UG/L	0.69	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	VINYL ACETATE	< 0.69	UG/L	0.69	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	VINYL ACETATE	< 0.69	UG/L	0.69	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW8260B	VINYL CHLORIDE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW8260B	VINYL CHLORIDE	**0.74**	UG/L	0.25	TR	J	T
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW8260B	VINYL CHLORIDE	**0.77**	UG/L	0.25	TR	J	T
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW8260B	VINYL CHLORIDE	**0.72**	UG/L	0.25	TR	J	T
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW8260B	VINYL CHLORIDE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW8260B	VINYL CHLORIDE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW8260B	VINYL CHLORIDE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW8260B	VINYL CHLORIDE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW8260B	VINYL CHLORIDE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW8260B	VINYL CHLORIDE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW8260B	VINYL CHLORIDE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW8260B	VINYL CHLORIDE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW8260B	VINYL CHLORIDE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW8260B	VINYL CHLORIDE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW8260B	VINYL CHLORIDE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW8260B	VINYL CHLORIDE	< 0.25	UG/L	0.25	ND	U	-
SHMPZ001	SHMPZ001-A-W01	N	2/13/2002	SW6010B	ZINC	**0.0548**	MG/L	0.0023	=	J+	M

Appendix F, continued

Analytical Results in Water
Benicia Arsenal

Groundwater Results:

Location	Sample ID	Sample Type	Sample Date	Analytical Method	Analyte	Result	Units	Detect Limit	Parvq	QC Flag	Reason Code
SHMPZ002	SHMPZ002-A-W01	N	2/12/2002	SW6010B	ZINC	< 0.00242	MG/L	0.00242	ND	UJ	M
SHMPZ002	SHMPZ002-B-W01	FD	2/12/2002	SW6010B	ZINC	< 0.00262	MG/L	0.00262	ND	UJ	M
SHMPZ003	SHMPZ003-A-W01	N	2/12/2002	SW6010B	ZINC	< 0.00659	MG/L	0.00659	ND	UJ	M
SHMPZ004	SHMPZ004-A-W01	N	2/13/2002	SW6010B	ZINC	< 0.0023	MG/L	0.0023	ND	U	-
SHMPZ005	SHMPZ005-A-W01	N	2/8/2002	SW6010B	ZINC	**0.044**	MG/L	0.0023	=	J+	M
SHMPZ006	SHMPZ006-A-W01	N	2/12/2002	SW6010B	ZINC	< 0.0192	MG/L	0.0192	ND	UJ	M,Y
SHMPZ007	SHMPZ007-A-W01	N	2/6/2002	SW6010B	ZINC	**0.00439**	MG/L	0.0023	TR	J	T
SHMPZ009	SHMPZ009-A-W01	N	2/6/2002	SW6010B	ZINC	**0.412**	MG/L	0.0023	=	-	-
SHMPZ010	SHMPZ010-A-W01	N	2/6/2002	SW6010B	ZINC	**0.561**	MG/L	0.0023	=	-	-
SHMPZ011	SHMPZ011-A-W01	N	2/11/2002	SW6010B	ZINC	< 0.0173	MG/L	0.0173	ND	UJ	M
SHMPZ012	SHMPZ012-A-W01	N	2/7/2002	SW6010B	ZINC	**0.0408**	MG/L	0.0023	=	-	-
SHMPZ017	SHMPZ017-A-W01	N	2/5/2002	SW6010B	ZINC	**0.0365**	MG/L	0.0023	TR	J+	M,T
SHMPZ019	SHMPZ019-A-W01	N	2/7/2002	SW6010B	ZINC	**0.00865**	MG/L	0.0023	TR	J	T
SHMPZ020	SHMPZ020-A-W01	N	2/7/2002	SW6010B	ZINC	**0.0278**	MG/L	0.0023	=	J	8,M
SHMPZ020	SHMPZ020-B-W01	FD	2/7/2002	SW6010B	ZINC	**0.0495**	MG/L	0.0023	=	J	8,M

REGULATOR COMMENTS

Response to Regulatory Comments
Draft Final Preliminary Conceptual Hydrogeologic Model for the Former Benicia Arsenal, Benicia, CA
November 2004

Comment No.	Page/ Section	Agency Comments	Response to Comments
Comments from Gary Riley, RWQCB			
1	General comment	The stated purpose of the Preliminary Conceptual Hydrogeologic Model (PCHM) is to provide a general site hydrogeology framework to assist in future site investigation and cleanup activities. Water Board staff agree that such an exercise is useful to guide future work, but significant additional information will be necessary to allow our concurrence with the conclusions of this report. In particular, the report's assessment of groundwater quality and quantity is inadequate allow Water Board staff to concur that the site's groundwater, or a portion thereof, is unsuitable for municipal or domestic water supply.	Since the CHM was written, DTSC has made available additional information on the groundwater quality and quantity of the Arsenal and surrounding area. Data from a July 2001 IT Corporation Report titled, *Monitoring Program Assessment for the Central Area Drainage Work Plan 12 and Report 5*, (IT 2001 Report), a September 1987 *Hydrogeologic Assessment Report* (IT 1987 Report), and the Expanded SI have been integrated into various sections of the Final Conceptual Hydrogeologic Model (CHM). The following provides a summary of information incorporated in the CHM. **IT PANOCHE REPORTS** The IT Panoche facility is located within a small valley in the foothills northeast of the former Arsenal. This facility is located within the terrain that is consistent with the CHM areas designated as "Highlands[1]." The IT Panoche report provides additional information on groundwater quality and quantity from IT Panoche site monitoring wells and nearby water supply wells. These data have been used to improve our understanding of the Highlands area as described below: • Bedrock beneath the IT Panoche site consists of the Panoche Formation. The Panoche Formation is a marine sequence of shales, claystones, and mudstones mapped by Dibblee (1980)[2] and is equivalent to the Great Valley Sequence mapped by Graymer et. al (1999)[3]. Terminologies from the most recent geologic maps of Graymer et. al (1999) are cited in the CHM. • Bedrock weathering extends from 1 foot on the valley edges to 27 feet in

[1] The CHM defines the Highlands as the foothills of the former Arsenal and characterized by relatively thin (generally < 50-feet thick) alluvial, bay mud, or fill material over sandstone/shale bedrock. Groundwater present in the overburden material within the Highland alluvial valleys and has a relatively steep hydraulic gradient and the quality is typically freshwater (with concentrations of total dissolved solids [TDS] less than 1,000 mg/L).
[2] Dibblee, T.W. Jr. 1980. *Preliminary Geologic Maps of Benicia Quadrangle, Contra Costa and Solano Counties.* USGS Open File Report. 80-400.
[3] Graymer, R. W., E. E. Brabb, and D. L. Jones. 1999. *Geology of the Cordelia and the Northern Part of the Benicia 7.5 minute Quadrangles, California.* U. S. Geological Survey Open-File Report 99-162.

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			the center of the valley, but typically averages 10 to 20 feet thick within the central drainage areas. • Most of the groundwater flow occurs within the overburden and the weathered Panoche Formation. • Saturated thickness is about 60 feet within the center of the valley and thins at the valley edges. • Discharge from wells within the central portion of the valley ranges from 0.01 gallons per minute (gpm) to 4.5 gpm or 14 gallons per day (gpd) to 6,480 gpd. • A limited amount of groundwater occurs within the upper 25 feet of the unweathered bedrock based on water occurrences or water losses in fractures during drilling. Below the upper 25 feet of the unweathered bedrock, the bedrock largely functions as an aquitard. • Twenty water supply wells were identified within 1 mile of the IT Panoche Facility (Figure 1-3 of the CHM and attached to these responses). Four of the twenty water supply wells (13L1, 13Q1, 24G1, 24J1) are located within 1 mile of the former Arsenal and within surface water drainages of Paddy Creek and Sulphur Springs Creek. These wells are identified by their IT designation, which is based on the rectangular system for the subdivision of public lands (e.g. 19L1 refers to Section 19, "L" refers to 40-acre subdivision of the section, and the number "1" refers to a sequential number, in this case wells). The remaining 16 water supply wells are located approximately 1 mile northeast of the Arsenal along Highway 680 in the low-lying foothills of

[4] International Technology (IT) Corporation. 1987. *Hydrogeologic Assessment Report*, IT Corporation Panoche Facility, Benicia, California. September 2.
[5] The PCHM defines the Lowland as the former tidal flats and marshlands of the Arsenal and the lower part of the drainage area for Sulphur Springs Creek. The geology of the Lowland area above the sandstone/shale bedrock is mostly comprised of artificial fill material or alluvium over Bay Mud. Locally, groundwater can be in confined conditions in older alluvium below the Bay Mud. The Lowland areas have a relatively low horizontal hydraulic gradient as compared to the Highland area. The quality of the groundwater in the Lowland area is brackish to saline (with concentrations of TDS between 1,000 mg/L to 100,000 mg/L).
[6] San Francisco Bay Regional Water Quality Control Board. *Sources of Drinking Water.* Regional Board Resolution No. 89-39.
[7]. San Francisco Bay Regional Water Quality Control Board. 2004. *Water Quality Control Plan (Basin Plan) for the San Francisco Bay Basin.* November 17.

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			Goodyear Slough. All of the wells are located within the Highland valleys. Information about usage, depth of the well and purge rates is not available for all the wells. One well drilled to 270 feet bgs yields up to 40 gpm (57,600 gpd). The IT Panoche Report interpreted the geologic unit supplying water for each well based the location and depth of the well. Most of the water supply wells are located in the Sonoma Volcanics (approximately 1.5 miles east of the facility) or the Panoche Formation, but three wells (13Q1, 24G1, and 24J1) located near the former Arsenal are hand dug and appear to be completed within the alluvium or in the weathered Panoche bedrock (Figure 1-3 of the CHM). Water quality samples were collected from 12 of the 20 water supply wells. TDS ranged from 230 to 1,200 mg/L (IT, 1987)[4]. The IT 1987 report states that these wells have "small yields and are used for domestic water supply and livestock watering." • Groundwater quality from three background monitoring wells at the IT Panoche facility are similar in water quality as the samples collected from the water supply wells. • Surface water and springs within 1 mile of the IT Panoche facility were inventoried and sampled in 1986 and 1987 (IT, 1987). Surface water features were sampled and included 11 locations within Paddy Creek and Goodyear Slough drainage basins (IT, 1987). The surface water features included springs or seeps, stock ponds and points within the creek itself (IT, 1987). Locations of springs, ponds, creeks and the Goodyear Slough are identified on Figure 1-3 of the CHM and included with these responses. The springs and ponds are identified in the same manner as the IT wells. Flow rates were estimated and varied from trace to 10 gpm with most averaging less than 1 gpm for the majority of the springs and streams (IT, 1987). In Paddy Creek, flow rates from 135 to 2,900 gpm were estimated during the spring and summer months (IT, 1987). The 1987 IT report indicated that there is probably an interchange between streamflow and groundwater flow between the main channel and the underlying alluvium along stream courses. Except during very wet periods,

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			flow rates in the streams in the area are typically less than 0.5 gpm with the majority of the water consumed by evapotranspiration, and/or by percolating back into the alluvium with the drainages (IT, 1987). In 1986, several springs (8M2, 18F2, 19A2, 13P1) were reported to have year round flow with rates of 0.6 to 7.5 gpm in the spring to -0.3 to 0.5 gpm in late summer or fall (IT, 1987). Surface water quality was consistent, regardless of season (IT, 1987). The total dissolved solids (TDS) values from the samples collected from Paddy creek ranged from 410 mg/L to 1,000 mg/L. The TDS values from the samples collected from Goodyear Slough ranged from 450 mg/L to 1,100 mg/L. The TDS values from the samples collected from lower Sulphur Springs creek ranged from 590 mg/L to 1,041 mg/L (IT Corporation, 1987). Goodyear Slough and lower Sulphur Springs creek are considered to be in the Lowland area. **EXPANDED SI** The Expanded SI data was collected within the Lowlands[5] and only limited data from the Highlands. These data will provide additional information to primarily support the characterization of Lowlands as provided in the CHM. No other data collection activities are specifically planned to update the CHM. **SUMMARY** In summary, in the Highlands, most of the groundwater is found within the overburden and weathered bedrock, which is found in the alluvial valleys. Some water supply wells are drilled into the bedrock and appear to intercept groundwater within fractures. Groundwater in the Highlands may be considered potentially suitable for water supply based on data collected from monitoring wells and water supply wells cited in the IT Panoche Reports that indicates groundwater meets the TDS (< 3,000 mg/L) or wells that can supply greater than 200 gpd criteria (State Board Resolution No. 889-63, Regional Board Resolution No. 89-39[6], and the Basin Plan[7]). Water supply wells in the Benicia area are located within the alluvial valleys of the Highlands (Figure 1-3 of the CHM and attached to these responses) and

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			appear to have historically and are currently used for domestic water supply. None of these wells are located on the Arsenal. There are two hand dug stock wells (24G1 and 24J1) and other wells used for groundwater monitoring within the former Arsenal (Figure 1-3). The FUDS regulation requires that only "reasonably anticipated future land use" is used for decision making purposes. Therefore, based on historic and current uses, the Highlands groundwater, in particular the Highland valleys, can be considered as a potential drinking water source. However, groundwater beneath the Arsenal is not currently being used for that purpose. Based on data compiled for the CHM (including these responses), groundwater of adequate quality and quantity to be considered for supply purposes is found primarily within the Highland valleys, not the Highland foothills. Therefore, the USACE proposes an exemption to State Board Resolution No. 889-63, Regional Board Resolution No. 89-39, and the Basin Plan for some contaminated sites (primarily those in the foothill portions of the Highlands), on a site-specific basis. As the USACE restoration process continues, the USACE proposes that site-specific data be used to assess whether groundwater is present in sufficient quality and quantity to be considered suitable for domestic or municipal water supply purposes. The USACE maintains that groundwater in the Lowland Areas of the Arsenal (e.g. the Industrial "Area I") is unsuitable for municipal or domestic water supply. The data from the Expanded SI confirms this designation. The groundwater is of poor quality (brackish to saline) and has very low permeability (Bay Mud). The Lowlands area groundwater has not historically and is not currently used as a water supply and under the FUDS Program, the Lowland Areas cannot be considered as a potential drinking water source.
2	General comment	The Draft Final Preliminary Assessment Report for the former Benicia Arsenal (Forsgren Associates/Brown and Caldwell, October 2003) describes nine water supply wells approximately 100 feet north of present-day East Second Street. The	The Final CHM has been revised to include additional information collected during an October 8, 2003 site visit. None of the wells could be located and no features resembling abandoned wells were observed. The updated information is provided in Section 2.1.1. The site visit was performed to physically identify these wells, however, none of the wells could be located and no feature resembling an

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		PCHM report concludes these wells no longer exist, but there is no explanation as to how this conclusion was reached. Please **revise the report** to show whether these wells can be conclusively shown not to exist. Regardless of their current status, past usage of these wells directly contradicts the PCHM report's conclusion that groundwater at the former Arsenal is unsuitable for municipal or domestic water supply.	abandoned well was observed. No information regarding use of these wells has been identified; the only reference to these wells continues to be a 1944 Army map (Records Research ref #357). Further information on the well construction details and use of the wells does not appear to exist. When and if these wells did exist, they were located within the Highlands. Based on the new information provided by the IT Panoche Report (see response to RWQCB Comment #1), groundwater may be considered potentially suitable for water supply in the Highlands. Therefore, the conclusion in the CHM that the groundwater at the former Arsenal is unsuitable for municipal or domestic water supply will be revised for the Highland areas. However, groundwater beneath the Arsenal is not currently being used for municipal purposes.
3	General comment	The PCHM report concludes on page ES-4 that, "Groundwater beneath the Benicia Arsenal is.... Not suitable for municipal or domestic water supply. As a result, the ingestion pathway is not a likely route of exposure, and maximum contaminant levels (MCLs) for drinking water are not appropriate action levels." Water Board staff cannot concur with this conclusion on the basis if the information presented in the report. State Board Resolution No. 889-63, Regional Board Resolution No. 89-39, and the Basin Plan state that all groundwater shall be considered suitable, or potentially suitable, for use as domestic or municipal supply. Limited exceptions may be considered by the Board for cases where total dissolved solids (TDS) exceeds 3,000 mg/L or a single well cannot support a sustained yield of 200 gallons per day. ***a. Highlands Area:*** Groundwater in this area is reported a fresh water with TDS below 3,000 mg/L. The report makes the general statement that yield is	Groundwater within the Highland and Lowland hydrogeologic areas has been re-evaluated based on the IT Panoche landfill investigation. This re-evaluation is summarized below and has been incorporated into Sections 3.0 and 4.0 of the Final CHM. The sentence referring to MCL levels has been removed and the sentence has been revised based on the new data obtained from the IT Panoche landfill Report and data gathered during the Expanded SI, "Groundwater beneath the Benicia Arsenal in the Lowlands Areas is therefore not suitable for municipal or domestic water supply and ingestion is not a likely route of exposure. In the Highlands, groundwater is of a quality and quantity that meets the criteria to be suitable for water supply. However, groundwater beneath the Arsenal is not currently being used for that purpose." ***Highlands Area:*** As stated above in the response to RWQCB Comment #1, the additional data will be added to further clarify the potential used of Highlands Area groundwater. ***Lowlands Area*** Agreed.

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		expected to be low in the material above bedrock in this area (Page ES-3) due to its discontinuous nature and clay content. Water Board staff cannot concur with this conclusion based on the information in this report. The existence of domestic water supply wells in areas with similar geology to this area has been reported historically (see comment 2) and currently at the IT Panoche facility located two miles north of the former Arsenal (see DTSC comment 4). ***b. Lowlands Area:*** In general, groundwater in this area does appear to exceed the 3,000 mg/L level for TDS. Board staff recommend considering this information and the suitability of groundwater for domestic supply on a site-specific basis as contaminated sites are discovered through the investigation process. Other beneficial uses of groundwater listed in the Basin Plan (e.g., freshwater replenishment to surface water; industrial process water supply) and resulting receptors must be considered in future evaluations. Investigation and cleanup of impacted groundwater also needs to consider other exposure pathways such as volatization and vapor intrusion into indoor air.	Other beneficial uses of the groundwater in the Lowlands will be considered in future evaluations. However, Lowland area groundwater has not historically and is not currently used for any water supply purpose. Future risk evaluations of DoD contamination found at the former Arsenal will consider other exposure pathways (e.g. volatilization and vapor intrusion) for contaminated sites in these areas.
4	Page 54	The report states that the only water-bearing units considered at the site are those within the material overlying bedrock. The bedrock is described on Page 54 of the report as "weathered, closely fractured, friable, and weak." The potential exists for significant water-bearing zones within fractured bedrock at the site, and this possibility should not be eliminated from further consideration of Arsenal hydrogeology.	As stated above in the response to RWQCB Comment #1, the CHM has been revised to indicate that there is a potential for water-bearing zones within the fractured bedrock.

<table>
<tr><th>Comment No.</th><th>Page Section</th><th>Agency Comments</th><th>Response and Changes</th></tr>
<tr><td>5</td><td>General Comment</td><td>Well completion reports for 99 wells within or near the former Arsenal were obtained from the Department of Water Resources and reviewed for the purposes of the PCHM. Six of these wells were installed for domestic water supply purposes. The report concludes, "Based on this review of well records, groundwater beneath the former Arsenal does not appear to be a source of drinking water." Water Board staff disagree with this conclusion. The six documented domestic supply wells are near the former Arsenal and, therefore, are likely installed under geologic conditions very similar to those found within the former Arsenal. The installation and use of these wells for domestic supply indicated groundwater at the former Arsenal is a source or a potential source of drinking water.</td><td>None of the six wells are located near the former Arsenal. Five of the six documented domestic wells found during the DWR search are located within downtown Benicia. The location of the other well is assumed to be located northeast of the Arsenal. Information from the DWR logs for these wells and their well ID (shown on Figure 1-3) is summarized below by location:
<table>
<tr><th>Well ID #</th><th>Location</th><th>Installation Date</th><th>Total Depth (ft bgs)</th><th>Screen Interval (ft bgs)</th><th>Estimated well yield (gpm)</th><th>Comments</th></tr>
<tr><td>2</td><td>490 West M Street</td><td>2001</td><td>172</td><td>132 to 172</td><td>not noted</td><td>Shale encountered 38 to 180 feet bgs</td></tr>
<tr><td>29</td><td>801 West K Street</td><td>1977</td><td>120</td><td>40 to 120</td><td>10</td><td>Shale encountered 30 to 120 ft bgs</td></tr>
<tr><td>30</td><td>P Street near 2nd St</td><td>1964</td><td>240</td><td>40 to 240</td><td>20</td><td>Shale encountered 7 to 240 ft bgs</td></tr>
<tr><td>34</td><td>690 East K Street</td><td>1966</td><td>40</td><td>20 to 40</td><td>20</td><td>Shale encountered 37 to 40 ft bgs</td></tr>
<tr><td>35</td><td>433 East I Street</td><td>1962</td><td>40</td><td>20 to 40</td><td>25</td><td>Well completed in overburden</td></tr>
<tr><td>64</td><td>Hwy 680 and Lake Herman Rd</td><td>1969</td><td>110</td><td>35 to 105</td><td>3 gpm</td><td>Shale encountered 44 to 110 ft bgs</td></tr>
</table>
As stated above in the response to RWQCB Comment #1, the additional data has been added to further clarify the Highlands Area and that groundwater may be considered potentially suitable for water supply in the Highlands, in particular the Highland valleys.</td></tr>
<tr><td>6</td><td>General Comment</td><td>A range of chemical data was collected from many of the piezometers in associate with the field effort conducted for the PCHM. This information should be posted to a large-format figure and included in the next version of the report to facilitate review by the project team.</td><td>USACE provided the requested chemical data in the *Technical Memorandum Letter for the Piezometer Installation and Sampling for the Site Hydrogeologic Model*, dated January 2003. Additionally, USACE will provide the requested data as part of the Expanded SI report. It is our opinion that chemical data should be kept separate from the hydrogeologic model and discussed in a site investigation report.</td></tr>
</table>

Response to Regulatory Comments
Draft Final Preliminary Conceptual Hydrogeologic Model for the Former Benicia Arsenal, Benicia, CA
November 2004

Comment No.	Page/ Section	Agency Comments	Response to Comments
Comments from Mark Vest, DTSC Senior Engineering Geologist			
1.	ES-1	The objective of the conceptual model, as stated in the executive summary, is to "provide a general hydrogelogic framework for future Arsenal site investigations and clean-up activities." The report does provide a conceptual framework that will be useful for developing investigation and potential clean-up activities at hazardous substances release sites. **RECOMMENDATION:** It should be noted that some conclusions that are presented in the Report will require additional support before gaining State acceptance. These conclusions are discussed in the following comments and recommendations.	The conceptual framework for this model has been updated with the recent information, such as the Expanded SI and the IT Panoche landfill report. USACE appreciates DTSC in notifying the project team about the IT Panoche report and allowing us access to the report.
2.	ES-2	"For this report, the overburden material above the bedrock is considered to contain the water-bearing units on the former Arsenal." **RECOMMENDATION:** Relatively permeable bedrock units and fracture zones within the bedrock have not been eliminated as potential water-bearing zones. The occurrence of water-bearing zones within the bedrock should not be discounted without support.	See response to RWQCB Comment #1 and #4. The CHM has been revised to state that bedrock beneath the former Benicia Arsenal has the potential to contain groundwater within the fractured and weathered bedrock formations. No bedrock investigations are planned as part of FUDS site restoration activities at this time. Additional bedrock data may be collected at sites where bedrock fractures and groundwater flow in bedrock may have potential contaminant fate and transport implications. These sites will likely be identified in the feasibility study stage of the Arsenal restoration project.
3.	ES-2	"The former Arsenal was divided into two hydrogeologic areas based on geology, topography, groundwater occurrence and groundwater quality." (Page ES-2). The identified areas are the Highland area and the Lowland area. **RECOMMENDATION:** The two proposed hydrogeologic areas are reasonable with respect to groundwater in unconsolidated units.	Concur. The text will be changed as follows: Shallow bedrock beneath the former Arsenal has the potential to contain groundwater within the fractured and weathered bedrock formations.

Comment No.	Page/ Section	Agency Comments	Response to Comments
4.	ES-4 ES-2 ES-3	The Report presents the following information on water quality and potential well yield to support the conclusion that "Groundwater beneath the Arsenal is therefore not suitable for municipal or domestic water supply. As a result, the ingestion pathway is not a likely route of exposure, and maximum contaminant levels (MCL) for drinking water are not appropriate action levels." (Page ES-4). • "Groundwater quality in the Highland area is typically freshwater (with concentrations of total dissolved solids [TDS] from 565 to 960 mg/L)." (Page ES-2) • "The quality of the groundwater in the lowland area is brackish to saline (with concentrations of TDS from 8,830 to 65,900 mg/L." (Page ES-3) • "Even if a water supply well could be constructed in the Highland's alluvium, there is little recharge through the clayey soils and the alluvium is thin and discontinuous, so a sustained yield of 200 gpd is not likely, particularly through the dry summer months." (Page ES-3) • "Groundwater in the lowlands thus cannot be reasonably expected to provide a potential drinking water sources due to the concentrations of TDS and low well yields." (Page ES-4) **RECOMMENDATIONS:** a. Regarding whether or not a water supply well could be constructed at or near the arsenal, the	a. The IT Panoche landfill report has provided valuable information that was not found during the compilation of the CHM. Changes that have been made to the CHM are discussed in the responses to RWQCB Comments #s 1, 2, 3 and 5. In summary, groundwater may be considered potentially suitable for water supply in the Highlands, in particular the Highland valleys. However, groundwater beneath the Arsenal is not currently being used for that purpose. b. The sentence referring to MCL levels has been removed and the paragraph has been revised as follows, "Groundwater beneath the Benicia Arsenal in the Lowlands Areas is therefore not suitable for municipal or domestic water supply and ingestion is not a likely route of exposure. In the Highlands, groundwater is of a quality and quantity that meets the criteria to be suitable for water supply. However, groundwater beneath the Arsenal is not currently being used for that purpose." c. As part of any future risk evaluations of the Arsenal sites, the USACE will consider potential migration pathways, receptors, and routes of exposure should be amended to include vapor intrusion, ecological receptors and routes of exposure other than ingestion. See also response to RWQCB Comment #3.

Comment No.	Page Section	DTSC Comments	Response to Comments
		Report should recognize that based on information from well completion reports presented in the Report, and hydrologic information reported for a nearby (approximately two miles north of Area W) IT Corporation, Panoche Facility, existing water wells for domestic supply and stock supply are completed in similar geologic settings as occur at the Arsenal. b. Speculation regarding whether or not MCLs are appropriate action levels is premature and should not be included in the conceptual hydrogeologic model. c. Conceptual information regarding potential migration pathways, receptors, and routes of exposure should be amended to include vapor intrusion, ecological receptors and routes of exposure other than ingestion.	
5.	ES-4	"This CHM is preliminary and intended as a living document, subject to update as new data becomes available from site-specific investigations." **RECOMMENDATION:** We agree that the CHM should be updated if significant groundwater contamination is detected and investigated.	Agreed. Although the CHM will be finalized as of incorporation of these DTSC and RWQCB comments, the Benicia Conceptual Hydrogeologic Model may be updated as necessary in subsequent project documents (for example in a Feasibility Study).
6.	ES-4	"This CHM is based on all known DoD investigations, as well as, previous investigations on and near the Arsenal conducted by private parties." **RECOMMENDATION:** The IT corporation, Panoche Facility, located within two miles of the Arsenal, has been the site of many hydrogeologic studies. Information regarding groundwater occurrence and subsurface contaminant migration	The results from the Panoche and Expanded SI reports have been incorporated into Sections 3.0 and 4.0 of the CHM. See also RWQCB Comment #1 through #3.

Comment No.	Page Section	Comment	Response
		developed and compiled for the facility should be reviewed and incorporated into the Arsenal conceptual model.	
7.	Page 5	"The relevant geologic and hydrogeolgic data and literature that were identified and reviewed for this investigation are presented in Table 1." **RECOMMENDATION:** Refer to the above recommendation regarding the IT Panoche Facility.	A reference to the IT Panoche Report has been added to Table 1-1. See also response to DTSC Comment #6.
8.	Page 5	"Locations of the wells with well completion reports filed with the Department of Water Resources (DWR) used to assess the hydrogeology of the former Arsenal are presented on Figure 3." **RECOMMENDATION:** a. The Report should be amended to indicate if the wells indicated on Figure 3 represent all well completion reports within a specific distance from the Arsenal. If they represent something else, that should be explained. b. Information regarding estimates of well yield from the completion reports should be provided if possible.	a. Figure 1-3 in the CHM provides the location of the former Arsenal piezometers and the some of the existing wells available from the DWR. Additional clarification will be made to Section 1.2 of the CHM. b. Some estimated well yield data has been added to Table 2-1 of the CHM from the DWR logs and from the IT Panoche landfill Report. This table is also attached to these responses.
9.	Page 23	"Nine water supply wells and a pump house were identified in the RRR for the former Arsenal, on a 1944 map (Jacobs, 1999). The wells were located in an east-west line across Sulphur Springs Creek approximately 100 feet north on East 2nd Street (formerly Highway 21). This is the only reference to these wells and the construction details and the use of the wells is not known. The wells no longer exist." **RECOMMENDATION:** The Report should explain the basis for the conclusion that the wells no	See our response to RWQCB Comment #2.

Comment No.	Page/ Section	Agency Comments	Response to Comments
		longer exist if the 1944 map is the only reference to the wells.	
10.	Page 24	"Well completion reports obtained from DWR were reviewed for 9 wells within or near the former Arsenal." "Four wells were installed for industrial purposes, one well was installed for irrigation purposes, and six wells were installed for domestic purposes. None of the domestic wells identified in this survey are located on the former Arsenal." "Based on this review of wells records, groundwater beneath the former Arsenal does not appear to be a source of drinking water. **RECOMMENDATION:** Based on the information quoted above, groundwater beneath the Arsenal should be considered a potential source of drinking water.	As stated above in the response to RWQCB Comment #1, the additional data added to the CHM clarifies the Highlands designation and that groundwater may be considered potentially suitable for water supply in the Highlands, in particular the Highland valleys. However, groundwater beneath the Arsenal is not currently being used for that purpose. See also RWQCB Comment #5.
11.	Table 3	Table 3, Summary of New Piezometer Installation and Selected Parameter Values **RECOMMENDATION:** Please amend Table 3 to include turbidity and pH values.	Table 3-2 has been changed to include pH. Turbidity values were not collected.
12.	Page 53	"An area of spoils was created in 1967 by Humble Oil Company near the southernmost portion of Sulphur Springs Creek subsequent to closure of the Arsenal." **RECOMMENDATION:** Please clarify if additional information is available regarding the volume, nature or sources of the material, and more specific disposal location information relative to the Arsenal preliminary assessment sites.	According to the *Records Research Report* (Jacobs, 1999) on page 2W-39: "A spoils area was designated in 1967 in the southernmost portion of Area W, adjacent to the Sulphur Springs Creek Drainage Canal and Suisun Bay (Figure 2.-2-2). Humble Oil and Refining Company (Humble) was granted the right to dump dredgings in this location (referred to as Spoils Area 4 and included in Appendix C2) (ref 439). Based on a 1969 aerial photograph, spoils were dumped in Spoils Area 4 and in an adjacent site to the southwest. This material was generated during the construction of the nearby Humble oil refinery in Area S. Humble later became Exxon." Appendix C2 included a figure that shows the location of 3 spoil areas (Spoil Area

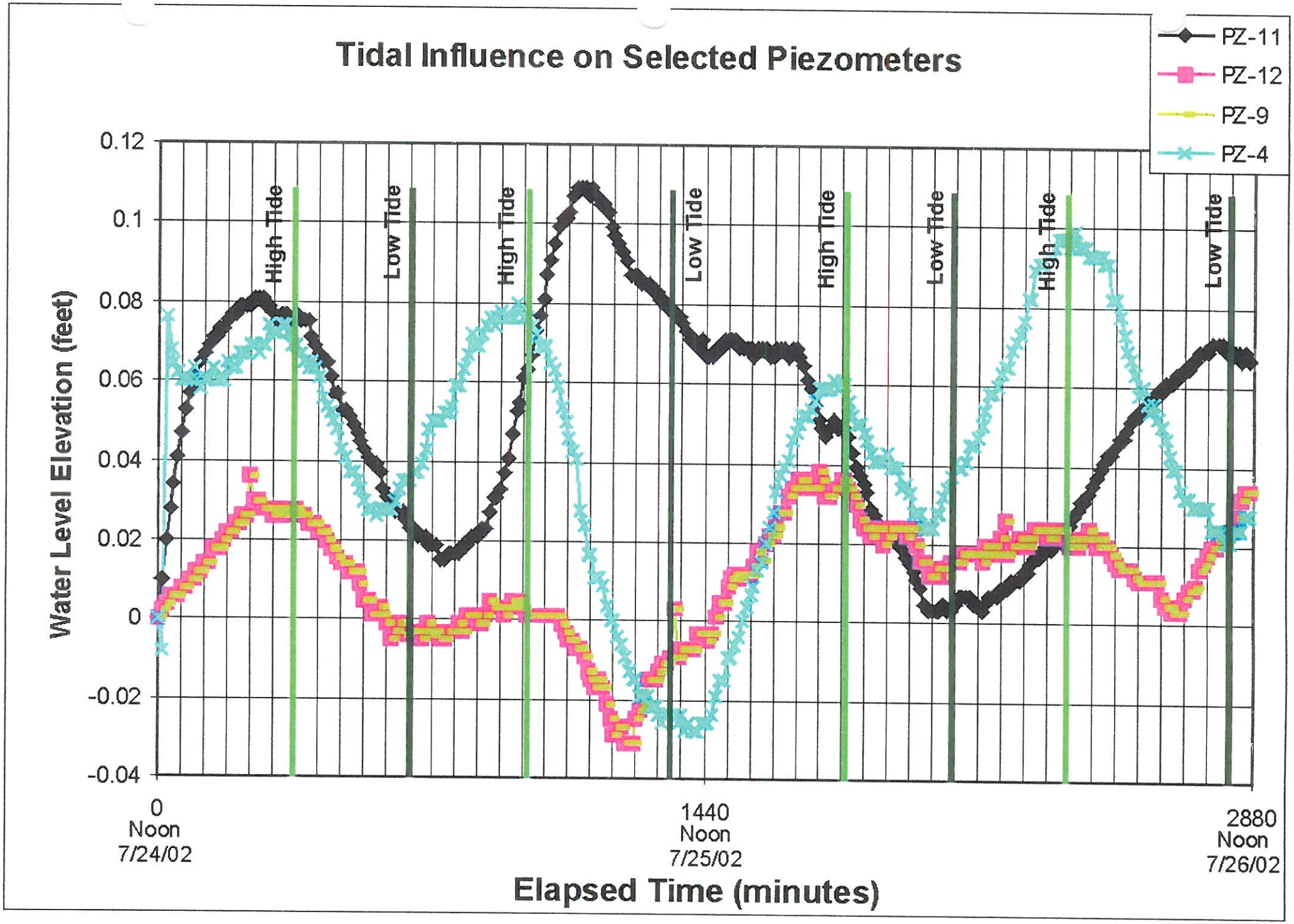
Comment No.	Page/Section	Agency Comments	Response to Comments
			3, 4, and 5) (see Figure 3-4, spoils areas.pdf). The volume of material and where the material originated is unknown. In relation to the Preliminary Assessment (PA) sites, none of the PA sites recommended for investigation are located in these areas.
13.	Page 54	"According to a local resident and former Arsenal employee (Jacobs, 1999), the flat areas in the highlands were covered with several tons of fill material following Arsenal closure. Additionally, Caltrans disposed of spoil material excavated during construction of Highway 680 in Area M near the boundaries of Areas W and M, and on the land now occupied by the Valero refinery." **RECOMMENDATION:** While several tons of material spread on the ground surface is not likely to affect Arsenal hydrogeology, it may complicate identification of historical contaminant releases to surface soil. Please clarify if additional information is available regarding the volume, nature or sources of the material, and more specific disposal location information relative to the arsenal preliminary assessment sites.	According to a local resident and former Arsenal employee (Jacobs, 1999), the flat areas in the highlands were covered with several tons of fill material following Arsenal closure. The former Arsenal employee was not specific in locating the areas altered in Area R through grading and filling but it would be assumed that the residential housing built on the Tourtelot Property, which overlaps the former Arsenal, is likely one of these areas. In regards to the location and nature of the construction material disposed of at the former Arsenal from the construction of Highway 680, the only information is provided below (RRR, Jacobs, 1999, page 2M-45): "In 1965, three sites in Area M were designated for the disposal of excavation material from highway construction (ref 464). Grading and construction of the Exxon tract and the disposal of excavation materials may have either removed traces of explosive residues, or covered with fill any surficial residue from the days of Army operations. One of the soil disposal areas was located in OS29. The other two areas were located adjacent to Hill Road near OS areas 24 and 25 (ref 464) (Figure 2.21)." Ref #464 includes two land use agreements between the USACE and the State of California (Licensee) for use of specific areas on the Arsenal property (installation) "for excess excavation material which the Licensee might accumulate during the period the Licensee is constructing a road (freeway), a bridge, bridge approaches, and other related and appurtenant facilities across a portion of said installation.." The access agreements were signed June and September 1964, the year the Army left the Arsenal. The agreements included two maps showing the locations of four spoil areas (Figure 3-4). The RRR text was incorrect in stating that there were 3 spoil areas. Figure 3-4 also shows the locations of the PA sites.

			The presence of any artificial fill will complicate the identification of historical contaminant releases to surface soil. Sampling in these areas (see response to DTSC Comment #12) will be factored into the sampling design process.
14.	Page 54	"The bedrock is described as weathered, closely fractured, friable, and weak." **RECOMMENDATION:** The weathered and fractured bedrock should be considered to be potential sources of groundwater.	Section 4.0 of the CHM has been revised to state that bedrock beneath the former Benicia Arsenal has the potential to contain groundwater within the fractured and weathered bedrock formations.
15.	Page 56 Page B-1	"Geologic logs from over 100 wells filed with DWR in the area of the former Arsenal were reviewed to assess the use of the wells and the local stratigraphy of the area." (Page 56) "About 150 Well Completion Reports were reviewed." (Page B-1) **RECOMMENDATION**: Please clarify the number of well completion logs and geologic logs reviewed in light of the different numbers stated on page 24 (99), Page 56 (over 100), and Page B-1 (about 150).	Concur. The number of well completion logs reviewed for the CHM is 99. Other references in the report will be consistent with this number.
16.	Figure 3	Locations of Existing Wells, New Piezometers, and Hydrogeologic Cross Sections, illustrates locations for about 50 of the approximately 100 (or more) wells. **RECOMMENDATION:** The figure should be renamed and amended to illustrate the locations of existing and historical well locations and to identify the availability of boring logs and/or driller's logs.	Figure 1-3 has been revised to identify current wells (attached to these responses). Table 2-1 (see Comment #8) identifies the historic wells. Most all of the wells in this table have boring logs and/or driller's logs.
17.	Page 69 Figure 9	"Most of the available information concerning the hydrogeology of the former Arsenal is concentrated in the units above the bedrock. Figure 9 presents the approximate thickness of the overburden above the bedrock for the entire Arsenal. When compared to the thickness of the Bay Mud, it is apparent that	Concur. The figure (Figure 3-2) was changed to reflect the thickness of the overburden above the bedrock material.

Comment No.	Page/ Section	Agency Comments	Response Comments
		permeable materials are usually less than 20 feet thick in most areas." (Page 69) Figure 9 is titled Hydrogeologic Areas and illustrates highland and lowland areas, thickness of Bay Mud, ground surface elevations, and some surface features. **RECOMMENDATION:** Thicknesses of alluvium, colluvium, and weathered bedrock are not illustrated. The text and/or figure should be amended. Also, the last sentence of the quoted text is not clear and should be amended.	
18.	Section 5.0	Summary of the Conceptual Hydrogeologic Model **RECOMMENDATION:** This section should be amended to incorporate the above recommendations.	CHM has been revised to incorporate our responses.
19.	Page 79	"In the Lowlands, most of the saturated sediments have very low permeability and many wells can be bailed dry, indicating that they would not sustain a pumping rate of 200 gpm." **RECOMMENDATION:** The units should be gallons per day rather than gallons per minute.	Concur. The text will be changed to reflect 200 gpd not 200 gpm.
20.	Appendix E	Well Construction and Geologic Logs for Piezometers **RECOMMENDATION:** The logs should identify the logger and the registered professional who is responsible for their content.	Agreed. A statement will be added to the Appendix that identifies the logger and the registered professional responsible for their content.

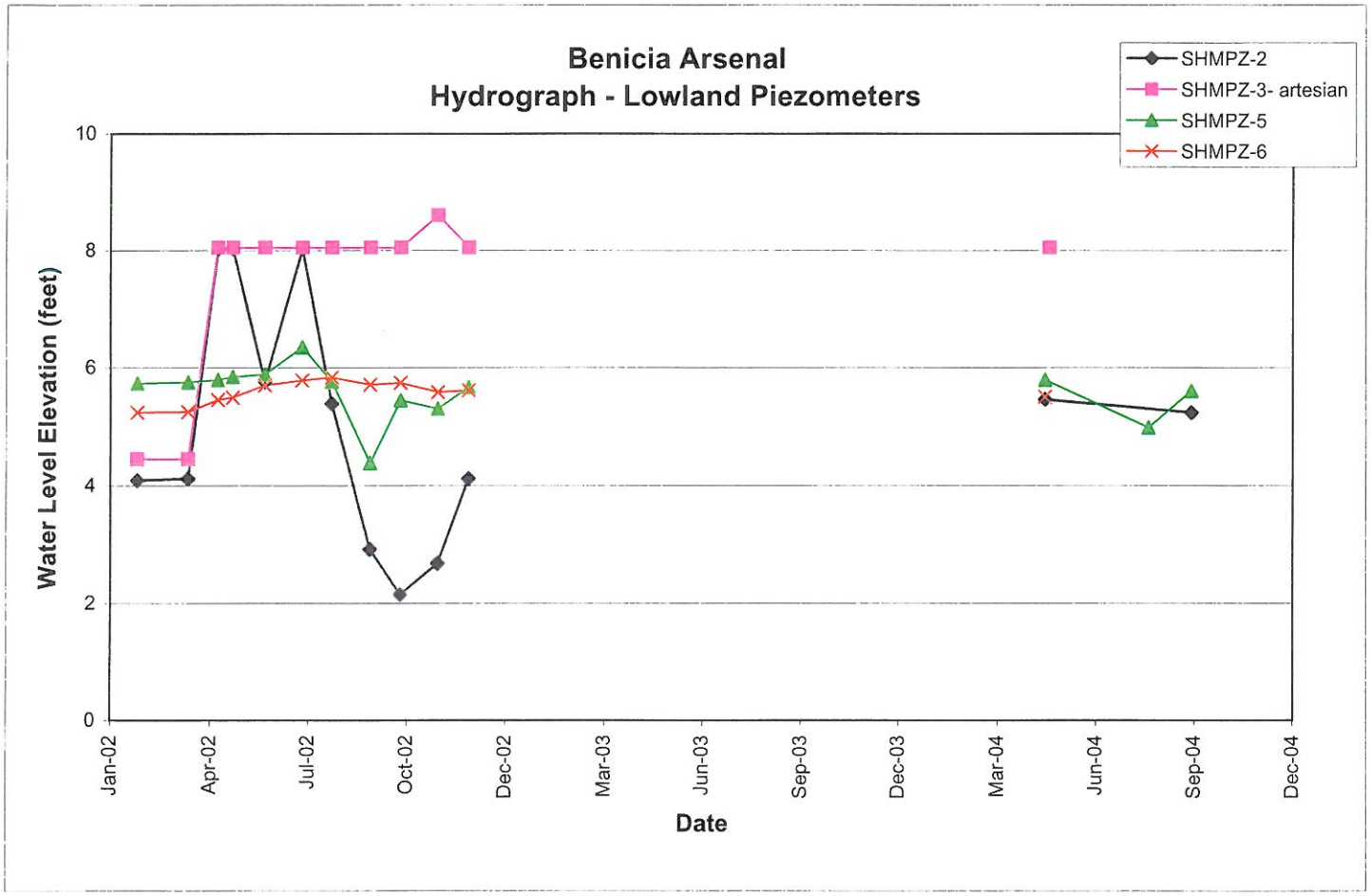
APPENDIX G

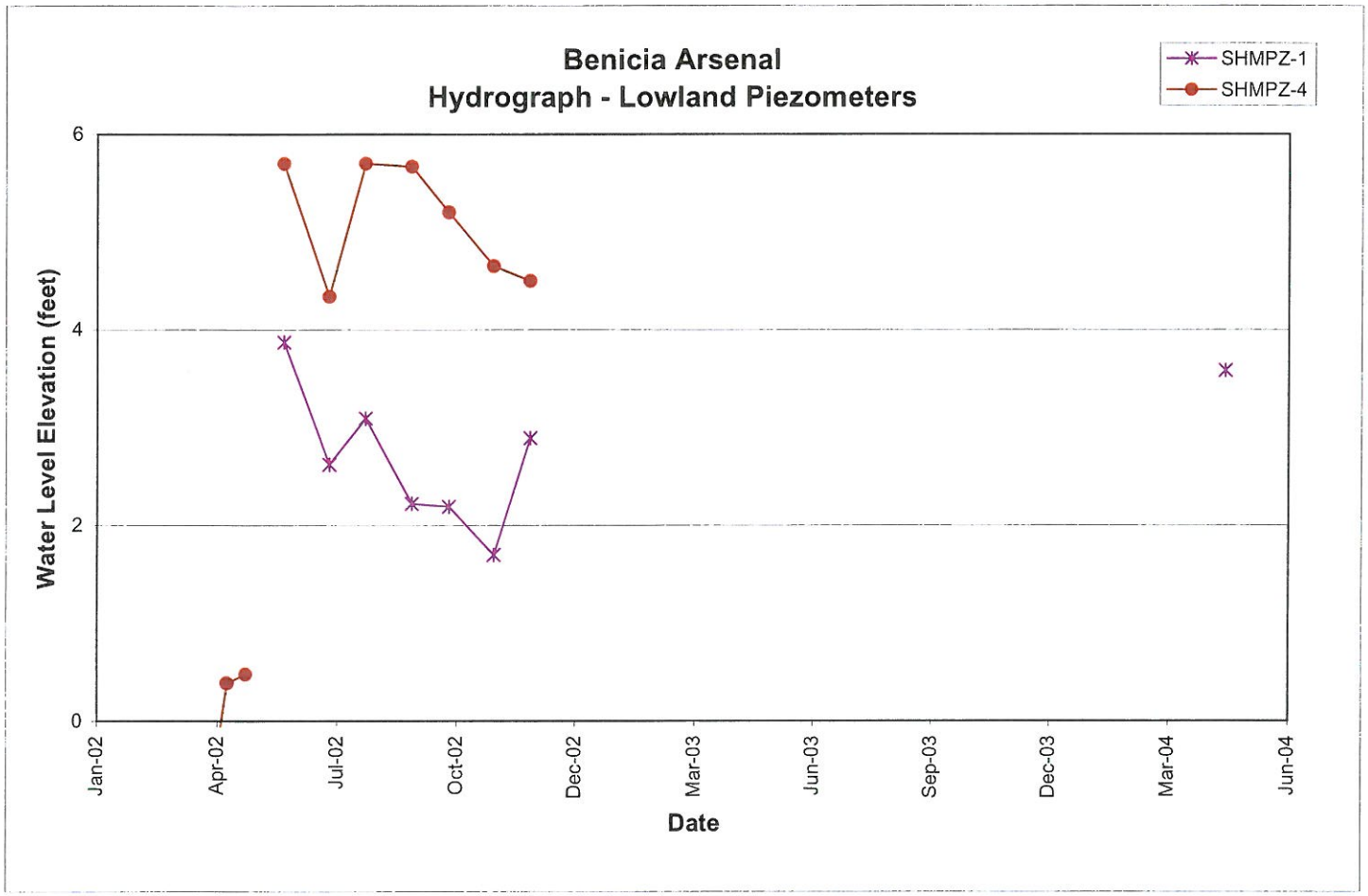
Tidal Influence: Transducer Data for Piezometers PZ-4, PZ-9, PZ-11, and PZ-12

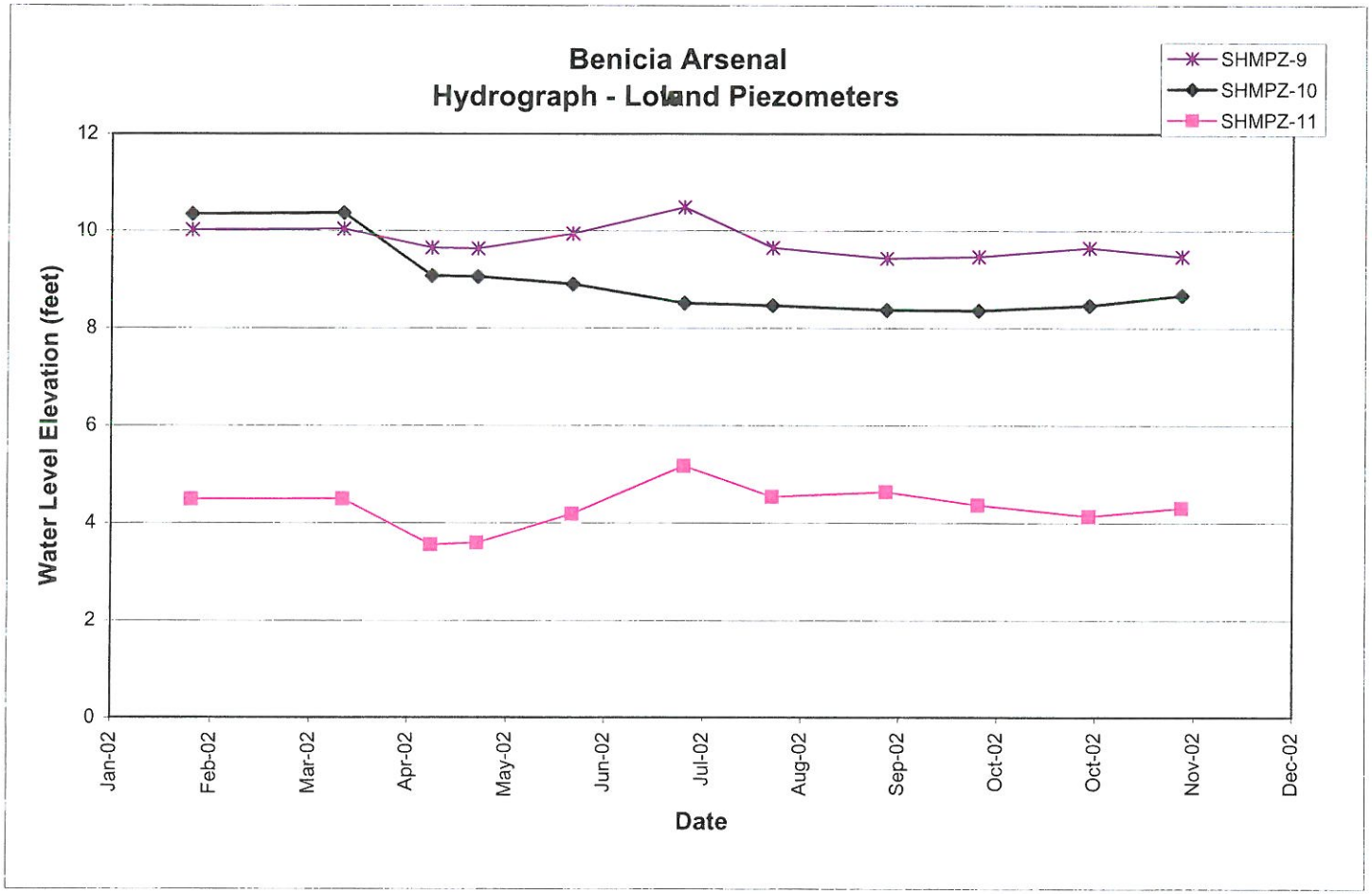

Tidal Influence on Selected Piezometers
PZ-11
PZ-12
PZ-9
PZ-4
High Tide
Low Tide
High Tide
Low Tide
High Tide
Low Tide
High Tide
Low Tide
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
Water Level Elevation (feet)
0
Noon
7/24/02
1440
Noon
7/25/02
2880
Noon
7/26/02
Elapsed Time (minutes)

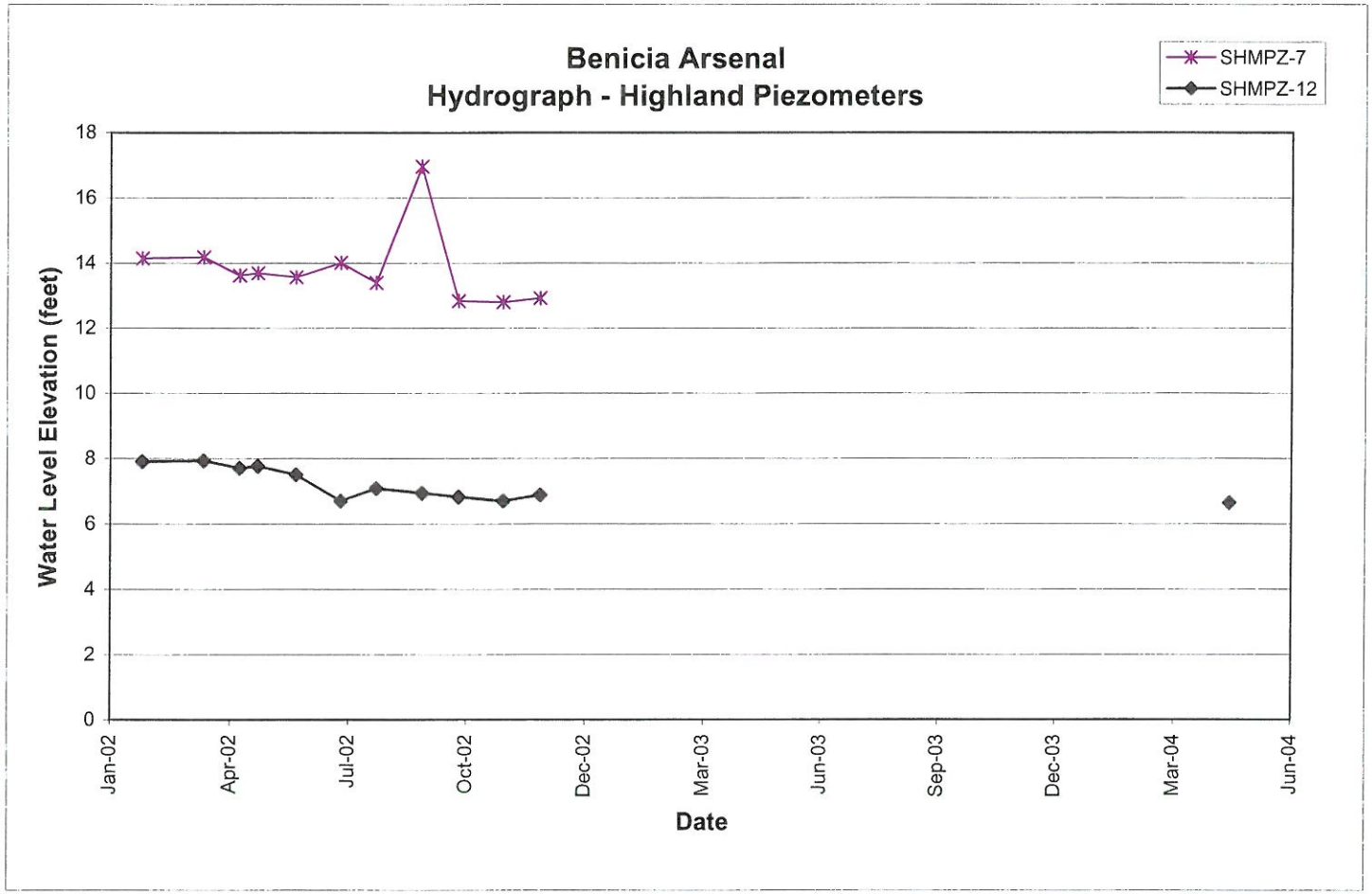
APPENDIX H

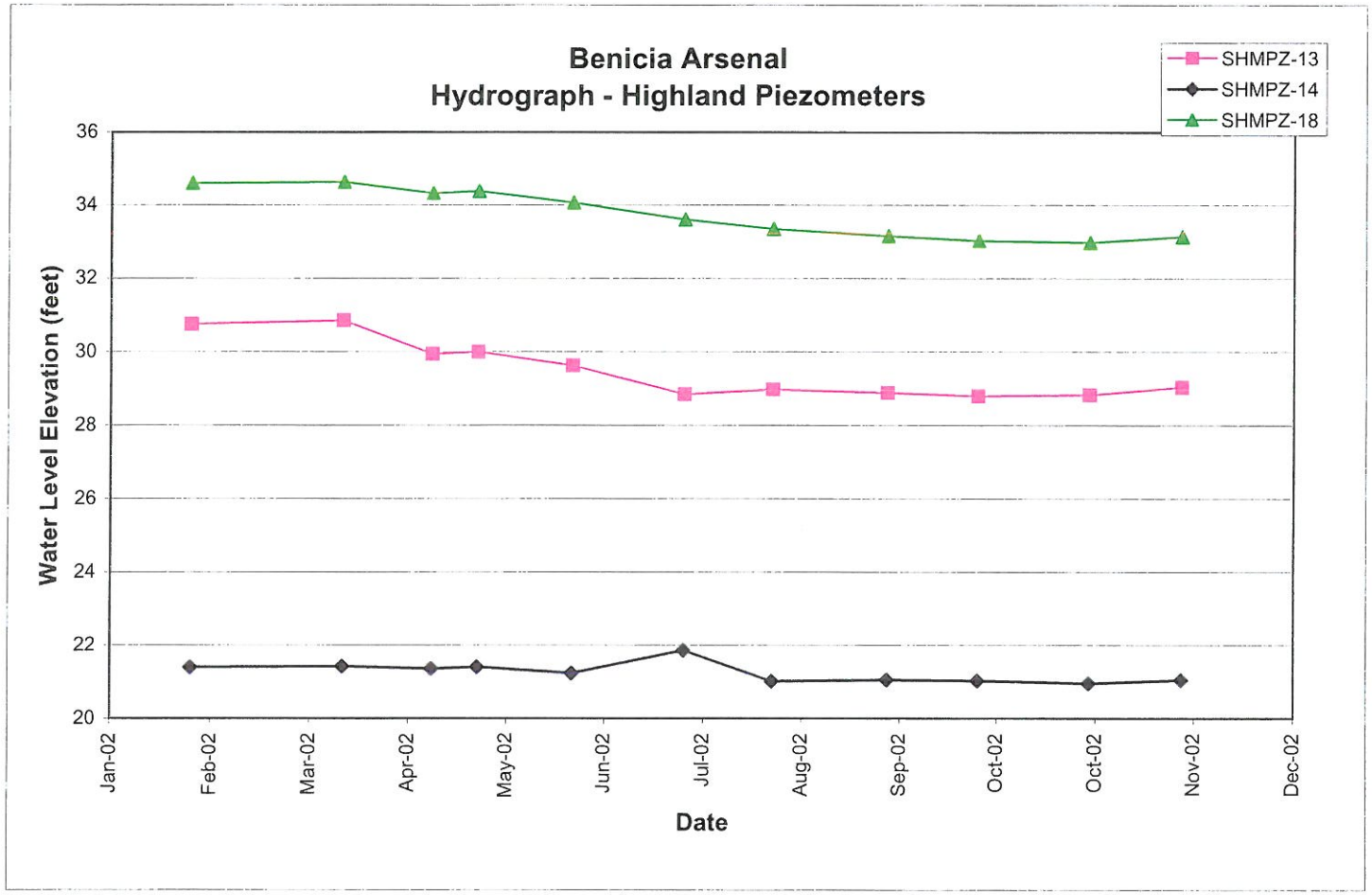
Hydrographs and Water Level Elevation data for the Piezometers

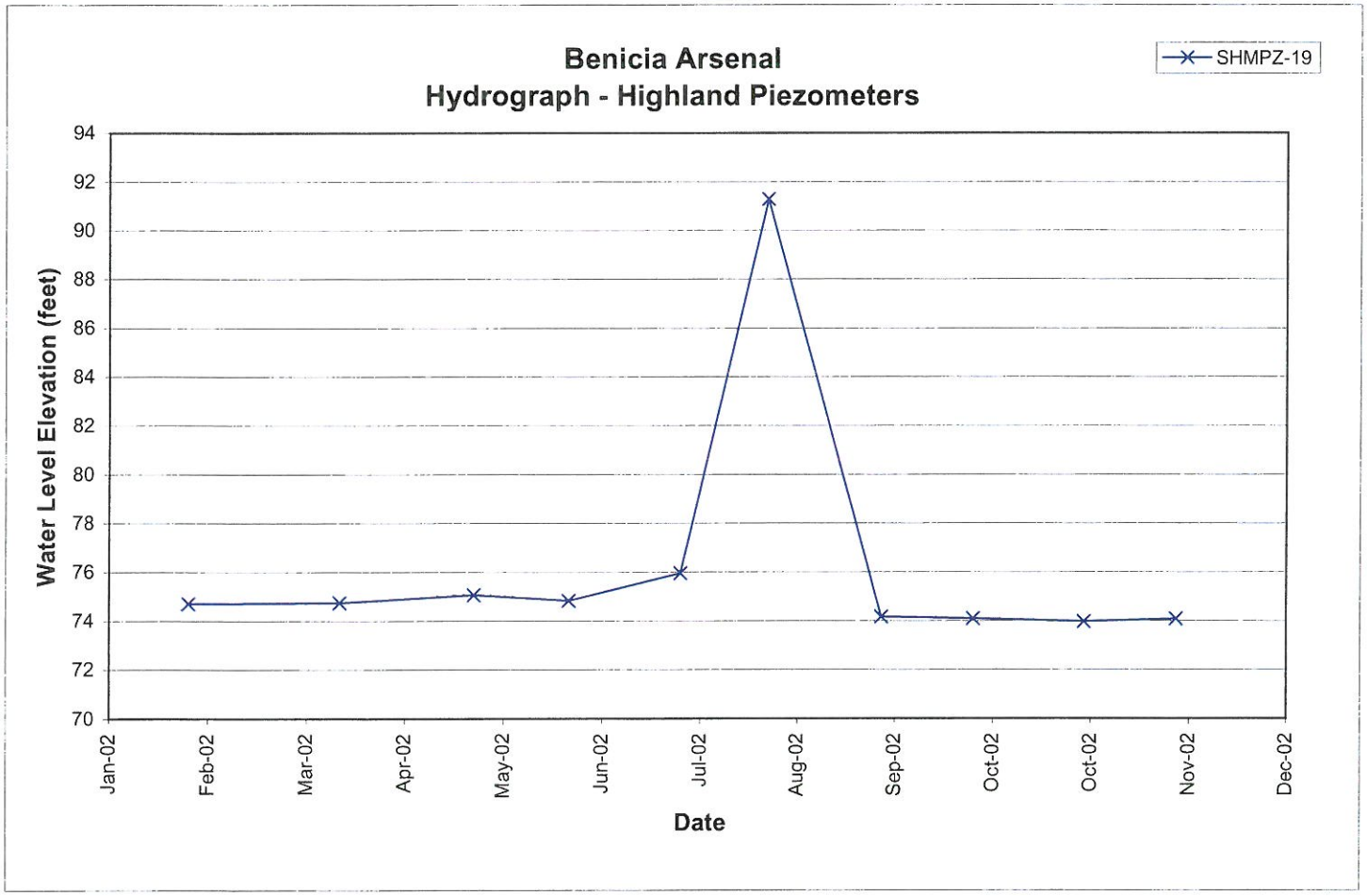

Benicia Arsenal
Hydrograph - Lowland Piezometers
SHMPZ-2
SHMPZ-3- artesian
SHMPZ-5
SHMPZ-6
Water Level Elevation (feet)
10
8
6
4
2
0
Jan-02
Apr-02
Jul-02
Oct-02
Dec-02
Mar-03
Jun-03
Sep-03
Dec-03
Mar-04
Jun-04
Sep-04
Dec-04
Date

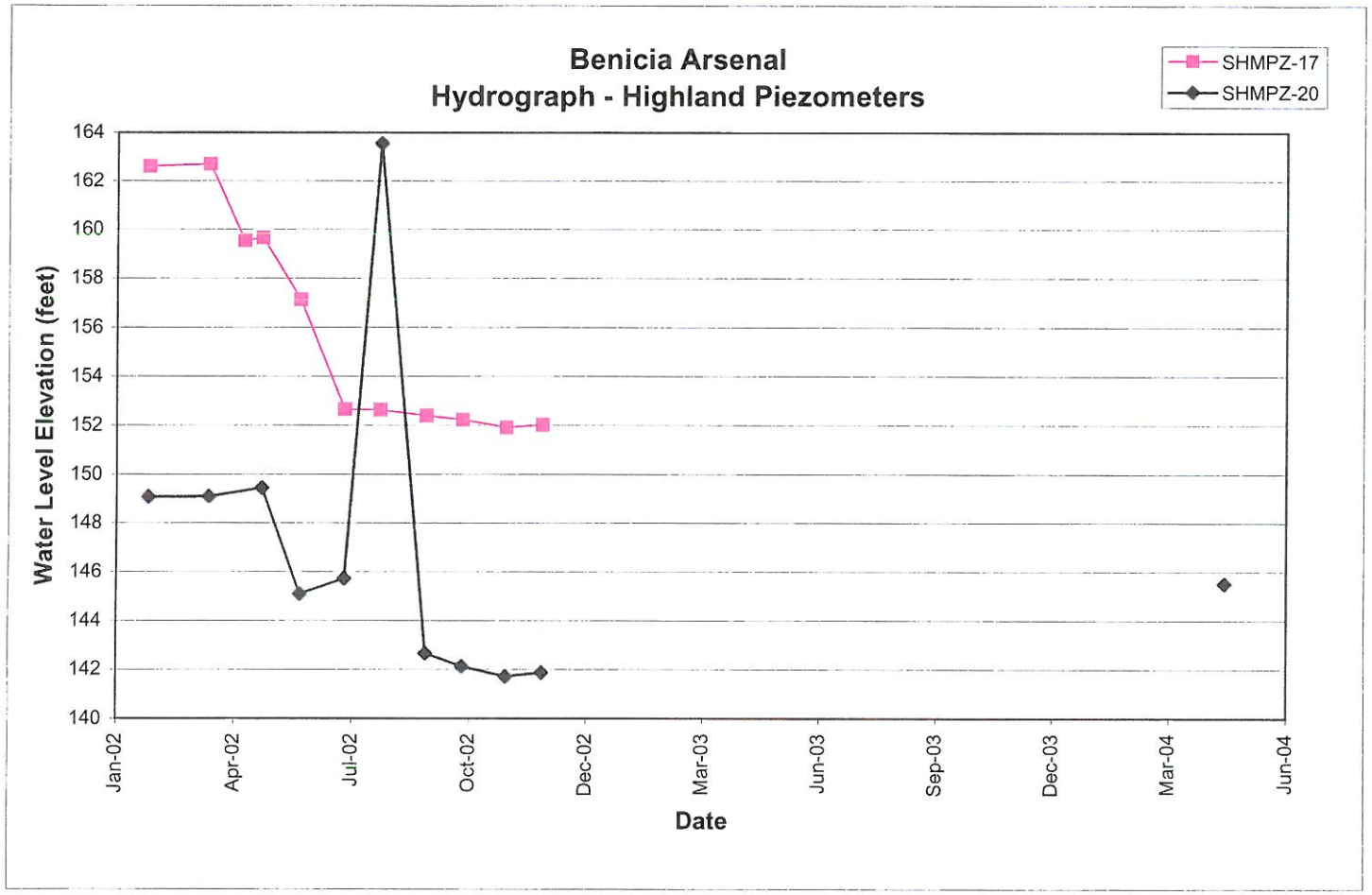

Benicia Arsenal
Hydrograph - Lowland Piezometers
SHMPZ-1
SHMPZ-4
Water Level Elevation (feet)
6
4
2
0
Jan-02
Apr-02
Jul-02
Oct-02
Dec-02
Mar-03
Jun-03
Sep-03
Dec-03
Mar-04
Jun-04
Date


Benicia Arsenal
Hydrograph - Lowland Piezometers
SHMPZ-9
SHMPZ-10
SHMPZ-11
Water Level Elevation (feet)
0
2
4
6
8
10
12
Jan-02
Feb-02
Mar-02
Apr-02
May-02
Jun-02
Jul-02
Aug-02
Sep-02
Oct-02
Oct-02
Nov-02
Dec-02
Date


Benicia Arsenal
Hydrograph - Highland Piezometers
SHMPZ-7
SHMPZ-12
Water Level Elevation (feet)
18
16
14
12
10
8
6
4
2
0
Jan-02
Apr-02
Jul-02
Oct-02
Dec-02
Mar-03
Jun-03
Sep-03
Dec-03
Mar-04
Jun-04
Date


Benicia Arsenal
Hydrograph - Highland Piezometers
SHMPZ-13
SHMPZ-14
SHMPZ-18
Water Level Elevation (feet)
36
34
32
30
28
26
24
22
20
Jan-02
Feb-02
Mar-02
Apr-02
May-02
Jun-02
Jul-02
Aug-02
Sep-02
Oct-02
Oct-02
Nov-02
Dec-02
Date


Benicia Arsenal
Hydrograph - Highland Piezometers
SHMPZ-19
Water Level Elevation (feet)
94
92
90
88
86
84
82
80
78
76
74
72
70
Jan-02
Feb-02
Mar-02
Apr-02
May-02
Jun-02
Jul-02
Aug-02
Sep-02
Oct-02
Oct-02
Nov-02
Dec-02
Date


Benicia Arsenal
Hydrograph - Highland Piezometers
SHMPZ-17
SHMPZ-20
Water Level Elevation (feet)
164
162
160
158
156
154
152
150
148
146
144
142
140
Jan-02
Apr-02
Jul-02
Oct-02
Dec-02
Mar-03
Jun-03
Sep-03
Dec-03
Mar-04
Jun-04
Date

Appendix H
Water Level Elevations in Piezometers
Benicia Arsenal

Location	Date	Depth to Water (ft)	Top of Casing	Elevation of Groundwater (ft)
SHMPZ001	1/28/2002	7.71	6.09	-1.62
SHMPZ001	3/15/2002	7.68	6.09	-1.59
SHMPZ001	4/1/2002	6.56	6.09	-0.47
SHMPZ001	4/25/2002	6.47	6.09	-0.38
SHMPZ001	5/24/2002	2.22	6.09	3.87
SHMPZ001	6/27/2002	3.47	6.09	2.62
SHMPZ001	7/24/2002	3	6.09	3.09
SHMPZ001	8/28/2002	3.87	6.09	2.22
SHMPZ001	9/25/2002	3.9	6.09	2.19
SHMPZ001	10/29/2002	4.39	6.09	1.7
SHMPZ001	11/26/2002	3.2	6.09	2.89
SHMPZ001	5/6/2004	2.51	6.09	3.58
SHMPZ002	1/28/2002	3.93	8.02	4.09
SHMPZ002	3/15/2002	3.9	8.02	4.12
SHMPZ002	4/11/2002	0	8.02	8.02
SHMPZ002	4/25/2002	0	8.02	8.02
SHMPZ002	5/24/2002	2.26	8.02	5.76
SHMPZ002	6/27/2002	0	8.02	8.02
SHMPZ002	7/24/2002	2.63	8.02	5.39
SHMPZ002	8/28/2002	5.1	8.02	2.92
SHMPZ002	9/25/2002	5.87	8.02	2.15
SHMPZ002	10/29/2002	5.34	8.02	2.68
SHMPZ002	11/26/2002	3.9	8.02	4.12
SHMPZ002	5/6/2004	2.56	8.02	5.46
SHMPZ002	9/17/2004	2.78	8.02	5.24
SHMPZ003	1/28/2002	3.6	8.05	4.45
SHMPZ003	3/15/2002	3.6	8.05	4.45
SHMPZ003	4/11/2002	0	8.05	8.05
SHMPZ003	4/25/2002	0	8.05	8.05
SHMPZ003	5/24/2002	0	8.05	8.05
SHMPZ003	6/27/2002	0	8.05	8.05
SHMPZ003	7/24/2002	0	8.05	8.05
SHMPZ003	8/28/2002	0	8.05	8.05
SHMPZ003	9/25/2002	0	8.05	8.05
SHMPZ003	10/29/2002	-0.55	8.05	8.6
SHMPZ003	11/26/2002	0	8.05	8.05
SHMPZ003	5/10/2004	0	8.05	8.05
SHMPZ004	1/28/2002	7.93	5.7	-2.23
SHMPZ004	3/15/2002	7.91	5.7	-2.21
SHMPZ004	4/11/2002	5.31	5.7	0.39
SHMPZ004	4/25/2002	5.22	5.7	0.48
SHMPZ004	5/24/2002	0	5.7	5.7
SHMPZ004	6/27/2002	1.36	5.7	4.34
SHMPZ004	7/24/2002	0	5.7	5.7
SHMPZ004	8/28/2002	0.03	5.7	5.67
SHMPZ004	9/25/2002	0.5	5.7	5.2
SHMPZ004	10/29/2002	1.05	5.7	4.65
SHMPZ004	11/26/2002	1.2	5.7	4.5
SHMPZ005	1/28/2002	3.02	8.75	5.73

Appendix H
Water Level Elevations in Piezometers
Benicia Arsenal

SHMPZ005	3/15/2002	3	8.75	5.75
SHMPZ005	4/11/2002	2.96	8.75	5.79
SHMPZ005	4/25/2002	2.91	8.75	5.84
SHMPZ005	5/24/2002	2.87	8.75	5.88
SHMPZ005	6/27/2002	2.41	8.75	6.34
SHMPZ005	7/24/2002	2.99	8.75	5.76
SHMPZ005	8/28/2002	4.37	8.75	4.38
SHMPZ005	9/25/2002	3.31	8.75	5.44
SHMPZ005	10/29/2002	3.45	8.75	5.3
SHMPZ005	11/26/2002	3.09	8.75	5.66
SHMPZ005	5/6/2004	2.96	8.75	5.79
SHMPZ005	8/9/2004	3.77	8.75	4.98
SHMPZ005	9/17/2004	3.15	8.75	5.6
SHMPZ006	1/28/2002	3.21	8.45	5.24
SHMPZ006	3/15/2002	3.2	8.45	5.25
SHMPZ006	4/11/2002	3	8.45	5.45
SHMPZ006	4/25/2002	2.96	8.45	5.49
SHMPZ006	5/24/2002	2.75	8.45	5.7
SHMPZ006	6/27/2002	2.67	8.45	5.78
SHMPZ006	7/24/2002	2.62	8.45	5.83
SHMPZ006	8/28/2002	2.74	8.45	5.71
SHMPZ006	9/25/2002	2.71	8.45	5.74
SHMPZ006	10/29/2002	2.87	8.45	5.58
SHMPZ006	11/26/2002	2.84	8.45	5.61
SHMPZ006	5/6/2004	2.95	8.45	5.5
SHMPZ007	1/28/2002	10.59	24.73	14.14
SHMPZ007	3/15/2002	10.55	24.73	14.18
SHMPZ007	4/11/2002	11.11	24.73	13.62
SHMPZ007	4/25/2002	11.04	24.73	13.69
SHMPZ007	5/24/2002	11.17	24.73	13.56
SHMPZ007	6/27/2002	10.72	24.73	14.01
SHMPZ007	7/24/2002	11.34	24.73	13.39
SHMPZ007	8/28/2002	7.77	24.73	16.96
SHMPZ007	9/25/2002	11.9	24.73	12.83
SHMPZ007	10/29/2002	11.94	24.73	12.79
SHMPZ007	11/26/2002	11.81	24.73	12.92
SHMPZ009	1/28/2002	5.43	15.45	10.02
SHMPZ009	3/15/2002	5.41	15.45	10.04
SHMPZ009	4/11/2002	5.8	15.45	9.65
SHMPZ009	4/25/2002	5.82	15.45	9.63
SHMPZ009	5/24/2002	5.51	15.45	9.94
SHMPZ009	6/27/2002	4.97	15.45	10.48
SHMPZ009	7/24/2002	5.8	15.45	9.65
SHMPZ009	8/28/2002	6.02	15.45	9.43
SHMPZ009	9/25/2002	5.98	15.45	9.47
SHMPZ009	10/29/2002	5.8	15.45	9.65
SHMPZ009	11/26/2002	5.98	15.45	9.47
SHMPZ010	1/28/2002	5.13	15.47	10.34
SHMPZ010	3/15/2002	5.1	15.47	10.37
SHMPZ010	4/11/2002	6.4	15.47	9.07
SHMPZ010	4/25/2002	6.42	15.47	9.05
SHMPZ010	5/24/2002	6.57	15.47	8.9

Appendix H
Water Level Elevations in Piezometers
Benicia Arsenal

SHMPZ010	6/27/2002	6.96	15.47	8.51
SHMPZ010	7/24/2002	7.01	15.47	8.46
SHMPZ010	8/28/2002	7.1	15.47	8.37
SHMPZ010	9/25/2002	7.11	15.47	8.36
SHMPZ010	10/29/2002	7.01	15.47	8.46
SHMPZ010	11/26/2002	6.8	15.47	8.67
SHMPZ011	1/28/2002	7.5	11.99	4.49
SHMPZ011	3/15/2002	7.49	11.99	4.5
SHMPZ011	4/11/2002	8.43	11.99	3.56
SHMPZ011	4/25/2002	8.39	11.99	3.6
SHMPZ011	5/24/2002	7.8	11.99	4.19
SHMPZ011	6/27/2002	6.82	11.99	5.17
SHMPZ011	7/24/2002	7.45	11.99	4.54
SHMPZ011	8/28/2002	7.35	11.99	4.64
SHMPZ011	9/25/2002	7.62	11.99	4.37
SHMPZ011	10/29/2002	7.85	11.99	4.14
SHMPZ011	11/26/2002	7.68	11.99	4.31
SHMPZ012	1/28/2002	6.69	14.59	7.9
SHMPZ012	3/15/2002	6.66	14.59	7.93
SHMPZ012	4/11/2002	6.89	14.59	7.7
SHMPZ012	4/25/2002	6.82	14.59	7.77
SHMPZ012	5/24/2002	7.09	14.59	7.5
SHMPZ012	6/27/2002	7.89	14.59	6.7
SHMPZ012	7/24/2002	7.5	14.59	7.09
SHMPZ012	8/28/2002	7.65	14.59	6.94
SHMPZ012	9/25/2002	7.77	14.59	6.82
SHMPZ012	10/29/2002	7.89	14.59	6.7
SHMPZ012	11/26/2002	7.7	14.59	6.89
SHMPZ012	5/6/2004	7.95	14.59	6.64
SHMPZ013	1/28/2002	9.3	40.05	30.75
SHMPZ013	3/15/2002	9.21	40.05	30.84
SHMPZ013	4/11/2002	10.12	40.05	29.93
SHMPZ013	4/25/2002	10.06	40.05	29.99
SHMPZ013	5/24/2002	10.43	40.05	29.62
SHMPZ013	6/27/2002	11.21	40.05	28.84
SHMPZ013	7/24/2002	11.08	40.05	28.97
SHMPZ013	8/28/2002	11.17	40.05	28.88
SHMPZ013	9/25/2002	11.26	40.05	28.79
SHMPZ013	10/29/2002	11.23	40.05	28.82
SHMPZ013	11/26/2002	11.02	40.05	29.03
SHMPZ014	1/28/2002	8.62	30.01	21.39
SHMPZ014	3/15/2002	8.59	30.01	21.42
SHMPZ014	4/11/2002	8.66	30.01	21.35
SHMPZ014	4/25/2002	8.61	30.01	21.4
SHMPZ014	5/24/2002	8.78	30.01	21.23
SHMPZ014	6/27/2002	8.16	30.01	21.85
SHMPZ014	7/24/2002	9	30.01	21.01
SHMPZ014	8/28/2002	8.96	30.01	21.05
SHMPZ014	9/25/2002	8.99	30.01	21.02
SHMPZ014	10/29/2002	9.06	30.01	20.95
SHMPZ014	11/26/2002	8.97	30.01	21.04
SHMPZ017	1/28/2002	0.72	163.32	162.6

Appendix H
Water Level Elevations in Piezometers
Benicia Arsenal

SHMPZ017	3/15/2002	0.64	163.32	162.68
SHMPZ017	4/11/2002	3.79	163.32	159.53
SHMPZ017	4/25/2002	3.67	163.32	159.65
SHMPZ017	5/24/2002	6.21	163.32	157.11
SHMPZ017	6/27/2002	10.68	163.32	152.64
SHMPZ017	7/24/2002	10.7	163.32	152.62
SHMPZ017	8/28/2002	10.93	163.32	152.39
SHMPZ017	9/25/2002	11.1	163.32	152.22
SHMPZ017	10/29/2002	11.42	163.32	151.9
SHMPZ017	11/26/2002	11.31	163.32	152.01
SHMPZ018	1/28/2002	10.04	44.63	34.59
SHMPZ018	3/15/2002	10.01	44.63	34.62
SHMPZ018	4/11/2002	10.31	44.63	34.32
SHMPZ018	4/25/2002	10.26	44.63	34.37
SHMPZ018	5/24/2002	10.57	44.63	34.06
SHMPZ018	6/27/2002	11.03	44.63	33.6
SHMPZ018	7/24/2002	11.29	44.63	33.34
SHMPZ018	8/28/2002	11.48	44.63	33.15
SHMPZ018	9/25/2002	11.61	44.63	33.02
SHMPZ018	10/29/2002	11.66	44.63	32.97
SHMPZ018	11/26/2002	11.5	44.63	33.13
SHMPZ019	1/28/2002	16.57	91.28	74.71
SHMPZ019	3/15/2002	16.54	91.28	74.74
SHMPZ019	4/25/2002	16.22	91.28	75.06
SHMPZ019	5/24/2002	16.45	91.28	74.83
SHMPZ019	6/27/2002	15.33	91.28	75.95
SHMPZ019	7/24/2002	0	91.28	91.28
SHMPZ019	8/28/2002	17.11	91.28	74.17
SHMPZ019	9/25/2002	17.19	91.28	74.09
SHMPZ019	10/29/2002	17.31	91.28	73.97
SHMPZ019	11/26/2002	17.2	91.28	74.08
SHMPZ020	1/28/2002	14.46	163.54	149.08
SHMPZ020	3/15/2002	14.45	163.54	149.09
SHMPZ020	4/25/2002	14.1	163.54	149.44
SHMPZ020	5/24/2002	18.45	163.54	145.09
SHMPZ020	6/27/2002	17.82	163.54	145.72
SHMPZ020	7/24/2002	0	163.54	163.54
SHMPZ020	8/28/2002	20.89	163.54	142.65
SHMPZ020	9/25/2002	21.41	163.54	142.13
SHMPZ020	10/29/2002	21.82	163.54	141.72
SHMPZ020	11/26/2002	21.67	163.54	141.87
SHMPZ020	5/6/2004	18.02	163.54	145.52