

APPENDIX A

TOUA GROUNDWATER QUALITY DATA

ATTACHMENT 4. Water Quality Analysis of SAN XAVIER - ORD
TOUA Well Water Samples, P. 1/2 PWSID NO. AZ0400-227

CONSTITUENTS	SAMPLE DATES		well #1	well #2	
	MCL	5/02/90	5/05/93	5/05/93	5/16/96
INORGANIC CHEMICALS					
Antimony		<i>Composite of wells 1 & 2</i>			<0.004
Arsenic	0.05	0.013	ND	ND	0.006
Barium	1.0	0.03	ND	ND	<0.10
Beryllium					<0.0005
Bicarbonate					
Boron					
Cadmium	0.01	<0.0007	ND	ND	<0.01
Calcium			98.0	35.0	41.33
Carbonate					
Chloride			9.7	8.7	10.6
Chromium (Total)	0.05	0.009	ND	ND	<0.001
Cobalt					
Copper			ND	ND	<0.10
Cyanide					<0.01
Fluoride	*	0.9	0.63	1.08	0.49
Iron			0.4	ND	<0.10
Langlier Index					0.09
Lead	0.05	<0.02	ND	ND	<0.005
Magnesium			21.3	4.9	7.22
Manganese			ND	0.02	<0.05
Mercury	0.002	<0.001	ND	ND	<0.0002
Nickel					<0.005
Molybdenum					
Nitrate Nitrogen	10.0	2.1	2.0	1.1	1.76
Nitrite-N					<0.13
Nitrogen, Total Kjeldahl					
O-Phosphate					
Selenium	0.01	<0.005	0.002	0.00	<0.005
Silica					
Silver	0.05	<0.001	ND	ND	<0.10
Sodium			52.3	49.5	67.10
Sulfate			201.0	72.7	13.9
Temperature					20.7 C
Thallium					<0.001
Zinc			0.04	ND	0.20
PHYSICAL PROPERTIES					
Hardness as CaCO3			333.0	98.0	133
pH			7.29	7.86	7.72
TDS			616.0	337.0	332
Alkalinity			231.0	135.0	160
Turbidity, NTU			1.54	0.40	
Color, units			<15.0	<15.0	<1
ORGANIC CHEMICALS					
Chlorophenoxy 1,4-D					
Endrin					
Lindane					
Methoxychlor					
Toxaphene					
RADIONUCLIDES					
Gross alpha					
Radium 226					

TOHONO O'DDHAM UTILITY AUTHORITY
WATER QUALITY ANALYSIS

SAN XAVIER ORD
PWSID NO. AZ0400-227

CONSTITUENT	Time & Date Sampled	Date Analyzed	Detection Limit	Nitrate Mg/l	Laboratory Analysis
NITRATE-N	03/02/79		10.0	<0.3	
	09/23/81		10.0	1.6	C.E.P.
	04/24/85		10.0	<0.1	
	06/09/87		10.0	1.24	N.T.U.A.
	05/02/90		10.0	2.1	A.A.L.
	05/05/93		10.0	2.0	TURNER/CAS
	05/05/93		10.0	1.1	TURNER/CAS
	02/13/96 14:16	02/15/96	10.0	0.83	C.S.A.
	06/01/96		10.0	4.0	