

Arizona's Public School Drinking Water Lead Screening Program

A proactive effort to protect the health and
safety of Arizona school children

December 2017 Report



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EXECUTIVE SUMMARY

Out of an abundance of caution and to proactively protect Arizona’s children, the Arizona Department of Environmental Quality (ADEQ) initiated a six-month, statewide screening program for lead in public school district drinking water. Thanks to the overwhelming support from elected officials, sister and local agencies, municipal public water providers and Arizona public school districts, and others this successful program has benefited Arizona’s children’s health and confirmed that drinking water in public school districts is not a common source of lead in Arizona.

What We Learned

Drinking water in public school districts is not a common source of lead in Arizona.

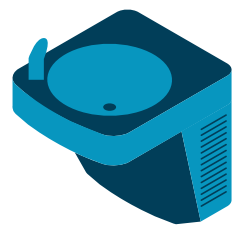
Fixtures and piping are the source of lead for the small number of confirmed elevated levels found in drinking water.



Overview

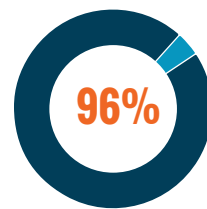
16,125 samples
from **14,782** fixtures
in **11,585** buildings
in **1,427** schools

180 school districts
with the help of
14 analytical labs
and
6 city partners



Sampling

ADEQ and its partners collected 16,125 samples from 14,782 fixtures at all public school district schools, taking immediate corrective actions and retesting fixtures in buildings that tested higher than the screening level.



Results

96% of all fixtures screened were found to be protective and required no action.

What Next?

The Arizona School Facilities Board is addressing the small number of fixtures and piping with confirmed elevated levels of lead in drinking water.

ACKNOWLEDGEMENTS



ADEQ expresses appreciation to all of our partners for making this statewide, voluntary program a success – especially our sister state agencies that helped us develop the program and provide ongoing support. Special thanks go to elected and appointed public school district superintendents and their staff whose commitment and dedication has enabled Arizona to be the only state in the nation to complete a proactive and collaborative voluntary screening program for lead in public school districts’ drinking water in six months’ time.

STATE AGENCY PARTNERS



COUNTY & MUNICIPAL PARTNERS

– ARIZONA’S COUNTY HEALTH OFFICIALS –

Staff from the Cities of Glendale, Peoria, Phoenix, Scottsdale, Tempe, Tucson



OVERVIEW

Out of an abundance of caution and to protect Arizona’s children, the Arizona Department of Environmental Quality (ADEQ) initiated a six-month, statewide screening program for lead in public school district drinking water. The intention of this voluntary program, in response to nationwide concern stemming from Flint, Michigan, was to find out whether lead contamination is present in school drinking water and reduce exposure. ADEQ knows that regulated public water systems are not a common source of lead in Arizona drinking water. ADEQ also knows that lead can leach from fixtures, connections and piping, especially in piping systems with extended periods of non-use. Potential drinking water impacts from lead leaching from fixtures and/or pipes was unknown at schools because neither federal nor Arizona state law requires that schools test drinking water.

- Arizona is the **only state** that successfully has:
 - ✓ Completed a proactive, comprehensive, voluntary screening program for lead in public school district drinking water, and
 - ✓ Accomplished this program within six months’ time.
- Arizona also is **one of only four states** that has completed any statewide lead screening program for school drinking water.

While drinking water is not a common source of lead in Arizona, eliminating exposure to lead in drinking water is an important step in reducing a child’s overall exposure to lead in the environment.

ADEQ and its partners designed the program to best work with and support public school districts’ participation. This was accomplished by developing and providing school faculty and staff with all of the necessary tools and resources to communicate, conduct, track and provide the screening program information to their parents and students.

ADEQ LED A MULTI-AGENCY PROGRAM TO:

- Identify and take immediate action to reduce lead exposure at drinking water fixtures of concern
- Inform short- and long-term corrective actions and solutions

THE PROACTIVE APPROACH

(SEE APPENDIX 1 FOR PROCESS FLOW CHART):

- Screen drinking water in all Arizona public school districts for lead using a conservative screening level of 15 parts of lead per billion parts of water (15 ppb)*
[“Initial Screening”]
- Confirm Sampling level exceedances
[“Confirmation Sampling”]
- Verify effectiveness of implemented corrective actions
[“Post Corrective Action Sampling”]

Details regarding the process, timeline, costs and references for related lead rules are provided in Appendices 1 through 5.

View detailed program information, including screening tools and results, guidance, geographic results maps for schools, parents and the community, at azdeq.gov/LeadScreeningProg.

* ppb - 1 ppb is roughly 1 teaspoon of material in an Olympic-size swimming pool. Similar to 1 penny in \$10,000,000.



RESULTS

The following summarizes program analytical data for Initial Screening and Confirmation Sampling (see Appendices 6 and 7 for program results by public school district and by county).

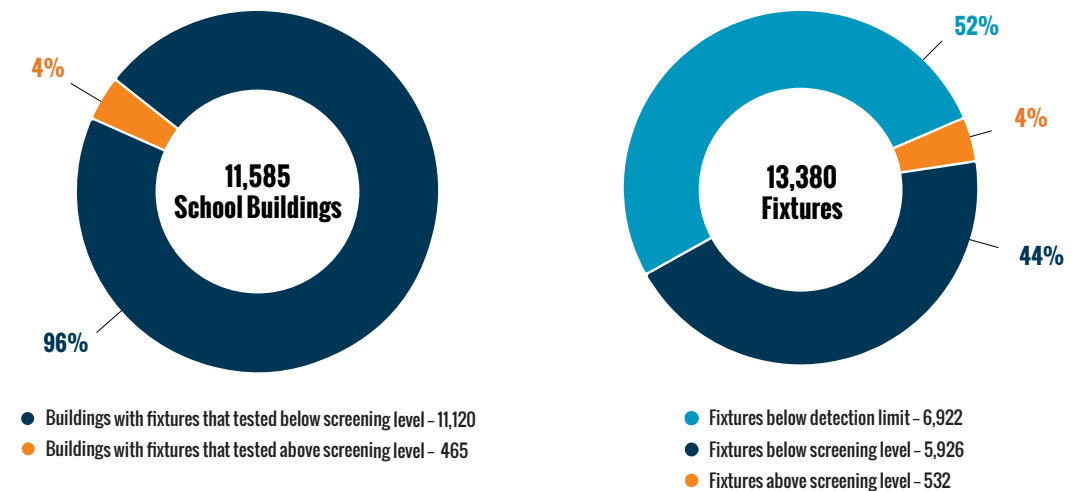
INITIAL SCREENING:

ADEQ selected 15 ppb as the conservative program screening level to match the protectiveness of the federal drinking water standard. The U.S. Environmental Protection Agency’s (EPA’s) technical guidance document, “3Ts for Reducing Lead in Drinking Water in Schools,” specifies 20 ppb as the action level for screening lead in schools. ADEQ’s decision to use a more conservative screening level effectively reduced exposure from an additional 124 fixtures that would have been missed using EPA’s 3Ts 20 ppb level.

96 percent of the 13,380 fixtures tested during the Initial Screening from 1,427 public schools (11,585 buildings) within Arizona’s 180 public school districts tested below the conservative 15 ppb screening level and these fixtures required no further action. Of the 532 fixtures with Initial Screening results higher than the screening level, only 422 moved on to Confirmation Sampling based on information provided by school officials that these fixtures were used for drinking. The remaining fixtures did not warrant Confirmation Sampling because they were not drinking water fixtures or located in buildings that were either unoccupied, not in use or scheduled for demolition.

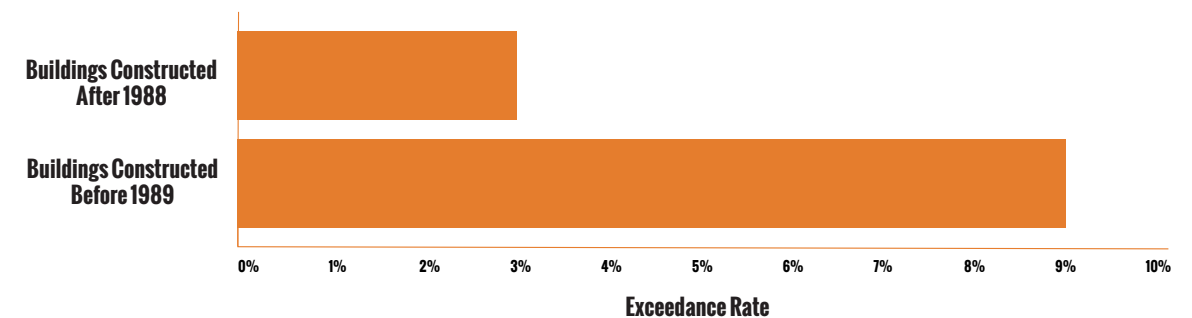
INITIAL SCREENING OVERVIEW*

*Represents data from 1,427 school campuses, and include some collected from non-drinking water fixtures.



Initial Screening results also demonstrated that school buildings constructed before 1989 (older buildings) had a higher number of screening level exceedances, as expected due to more protective construction standards that came into effect in 1987.

INITIAL SCREENING BUILDING EXCEEDANCE RATE BY AGE



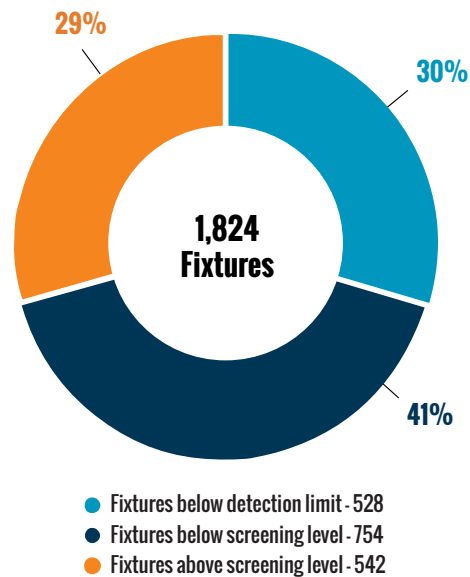
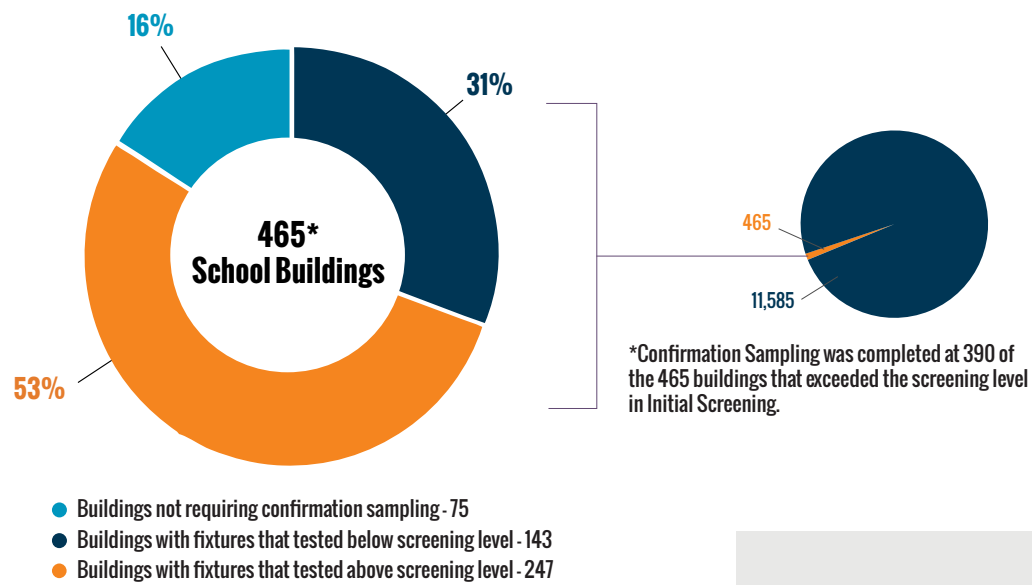
RESULTS

CONFIRMATION SAMPLING:

Confirmation Sampling was conducted for the 422 fixtures identified during Initial Screening. In addition, all other drinking water fixtures located in these buildings were tested, bringing the total number of fixtures tested during Confirmation Sampling to 1,824. 71 percent of the 1,824 fixtures tested during the Confirmation Sampling tested below the conservative 15 ppb screening level and these fixtures required no further action. For the 29 percent of fixtures with results that exceeded the screening level, corrective action was suggested and several options offered.

CONFIRMATION SAMPLING OVERVIEW*

*Represents data from 248 school campuses, and include some collected from non-drinking water fixtures.



“It is apparent that the state of Arizona has surveyed lead concentrations in public school drinking water using a very conservative threshold on which to take corrective action. After reviewing this report, I see no evidence that public school drinking water serves as a significant contributor to lead poisoning in Arizona’s children.”

STEVEN CURRY, M.D.
 Professor of Medicine
 University of Arizona College of Medicine - Phoenix
 Chief, Department of Medical Toxicology
 Banner - University Medical Center Phoenix

POST CORRECTIVE ACTION SAMPLING

The Arizona School Facilities Board is actively working with public school districts to replace fixtures with confirmed lead levels higher than the screening level to ensure students have adequate access to healthy drinking water (Please see interim, internal link to the Arizona School Facilities Board huddle presentation: <https://prezi.com/view/naNja17lbrJ1Xu26ks44/>).

ADEQ is coordinating with the schools to sample and verify that these fixture replacements solved the lead problem in drinking water. If sampling confirms no lead problem, no further action is recommended (see Appendix 2 for the Post Corrective Action Process Flow).

EPA guidance indicates lead may be found following installation of new piping and fixtures until scale builds up in the lines, creating a protective barrier. If Post Corrective Action Sampling shows lead is present, ADEQ recommends that schools continue to implement the interim actions put in place following Initial Screening (follow the daily flushing protocol or keep the drinking water fixture out of service). Additional samples from these fixtures will be collected at three and six-month intervals to verify effectiveness of the corrective action or determine whether additional action is needed.

RECOMMENDATIONS

- Test any drinking water fixture in public school district school buildings constructed before 1989 that was not tested in this program.
- Develop a strategy to address the small number of fixtures and piping with confirmed elevated levels of lead in drinking water.
- To ensure Arizona’s children continue to receive healthy drinking water and prevent potential effects to drinking water quality, develop and implement an ongoing flushing program at school facilities to address extended periods of non-use.

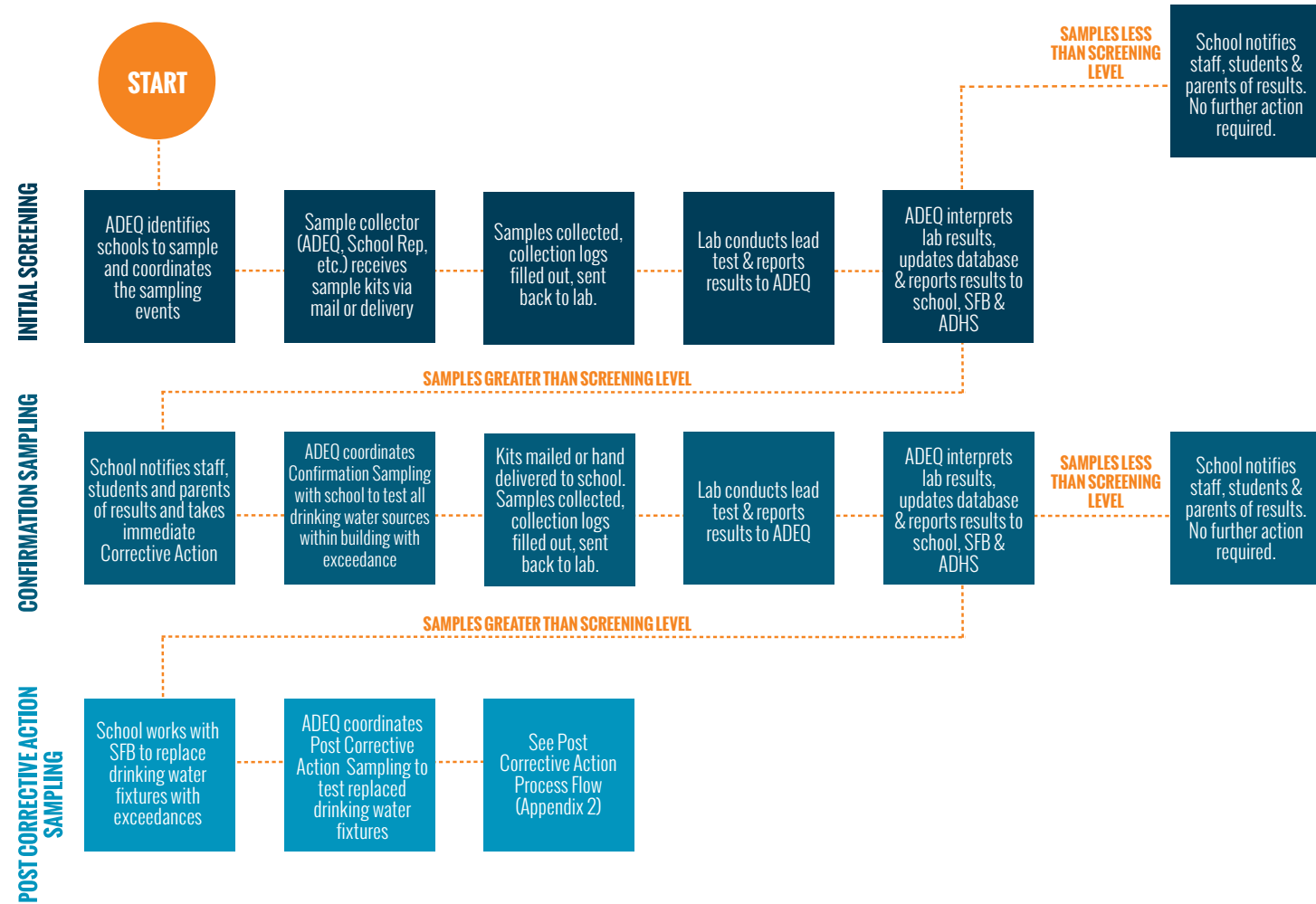
APPENDICES



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APPENDIX 1

PROCESS FLOW CHART

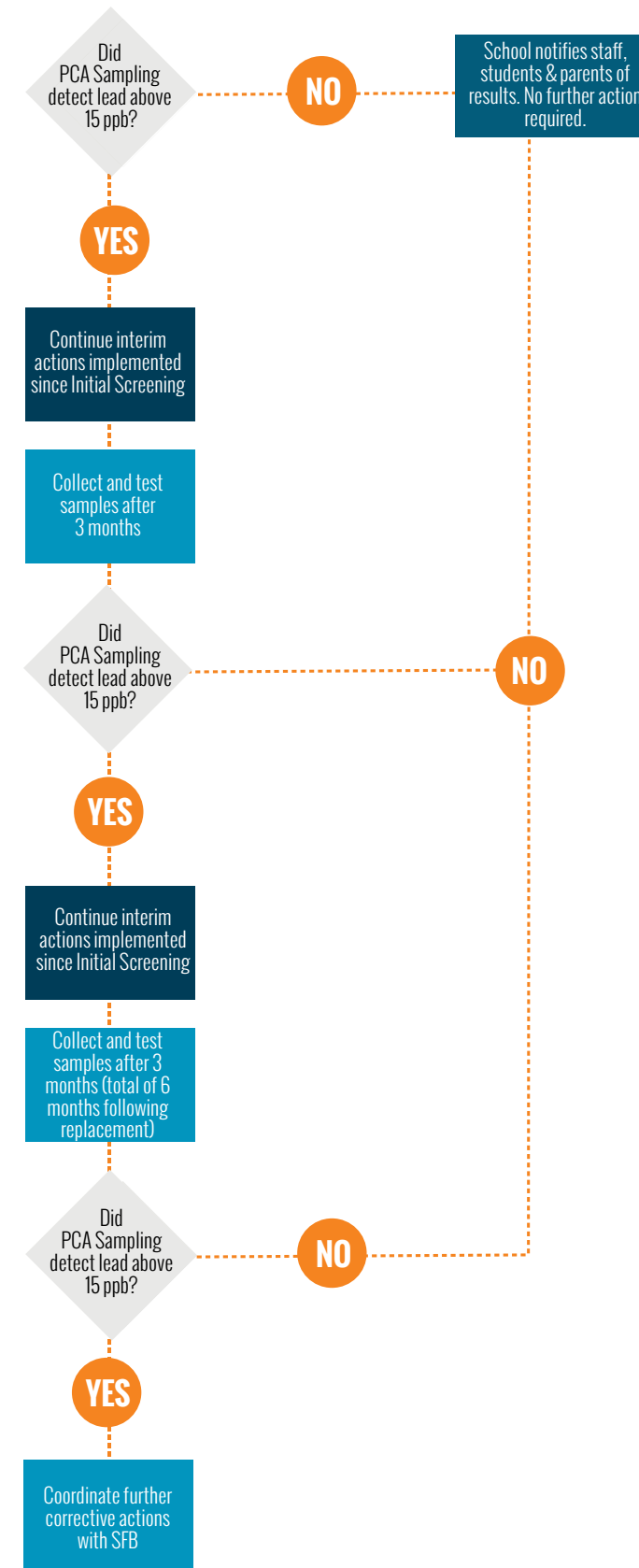


SAMPLING PROTOCOL:

- Collected from cold-water taps only
- Collected in the morning before staff & students arrive (water left standing in pipes a minimum of six hours)
- 250 milliliters collected from drinking water fixtures for Initial Screening
- Additional samples collected for Confirmation Sampling

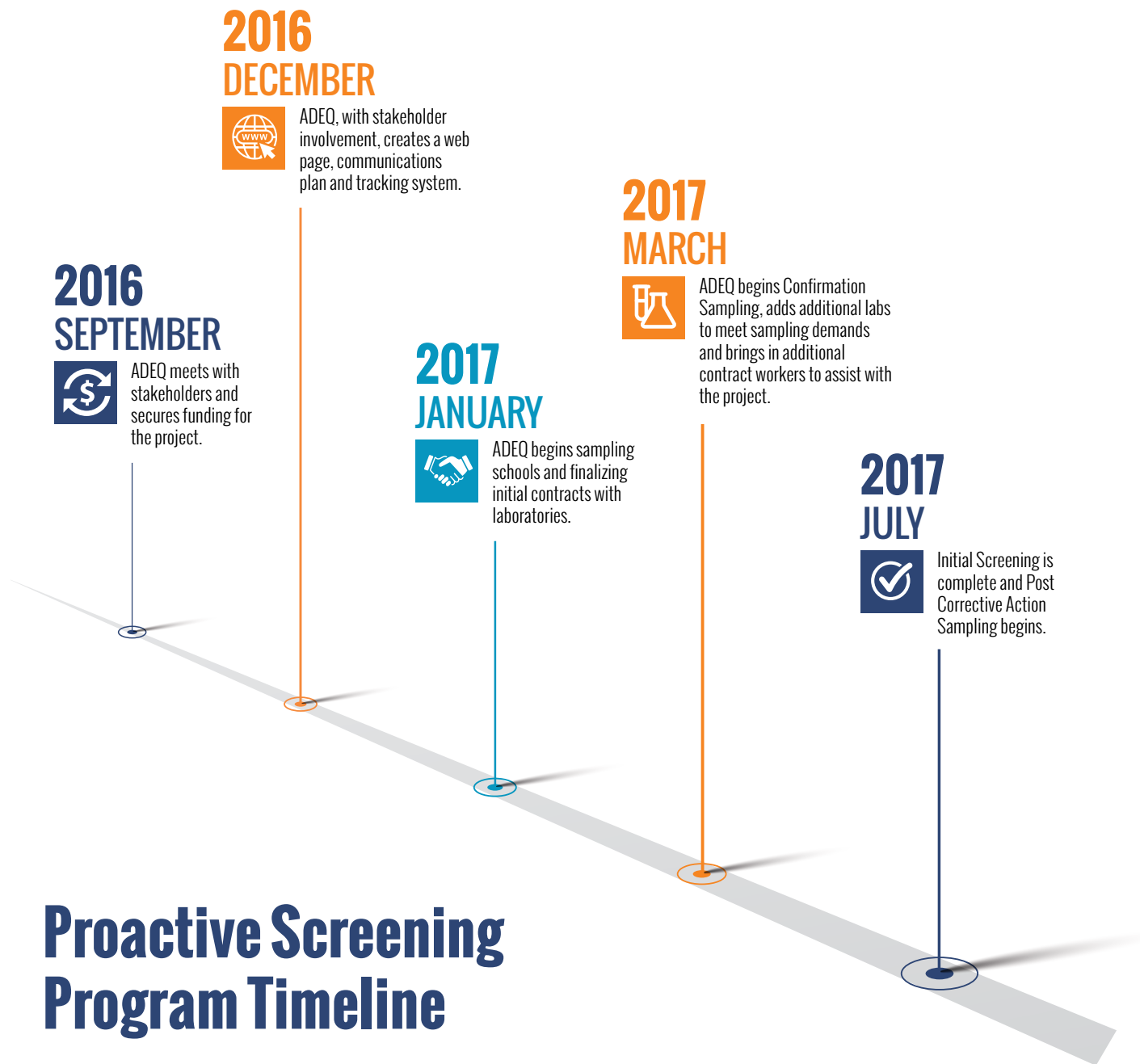
APPENDIX 2

POST CORRECTIVE ACTION PROCESS FLOW



APPENDIX 3

TIMELINE



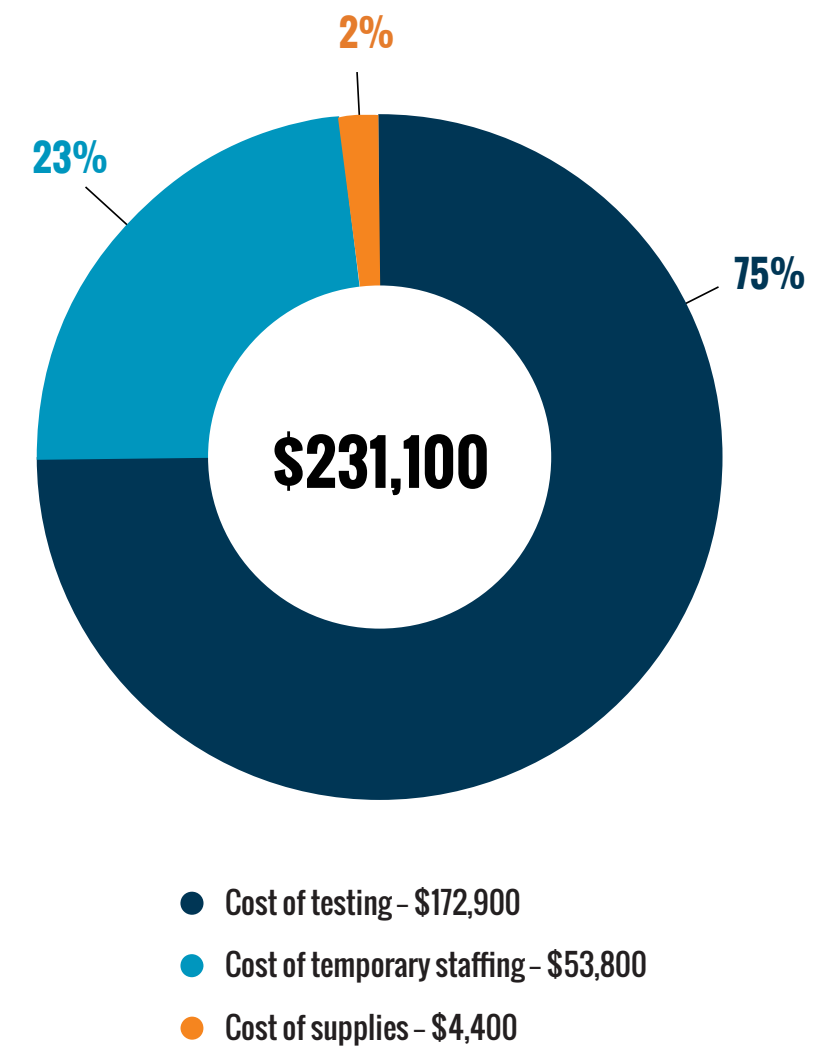
APPENDIX 4

COSTS

ADEQ completed the Initial Screening and the expanded project scope including Confirmation Sampling for \$231,100. This low cost was in large part due to the renegotiation of state analytical contracts, reusing boxes to assemble sampling kits and from in-kind contributions of six municipal partners. ADEQ estimates that \$70,000 of program analytical costs were provided by municipal partners. Key expenditures included shipping, sample analysis, temporary contract staff and sampling kits/assembly. In kind services provided by full-time State of Arizona staff from ADEQ, the Arizona School Facilities Board, the Arizona Department of Health Services and the Arizona Department of Education to support the program are estimated upwards of \$215,000.

ADEQ EXPENDITURES

Initial Screening and Confirmation Sampling



The Arizona Schools Facilities Board estimates it will take \$400,000 to repair and replace fixtures identified by Confirmation Sampling that exceeded the screening level.

APPENDIX 5

REFERENCES FOR RELATED LEAD RULES

SAFE DRINKING WATER ACT (SDWA) (1974):

Required EPA to establish regulations for known or potential contaminants in drinking water for the purpose of protecting public health.

THE LEAD BAN (1986):

A requirement that only lead-free materials be used in new plumbing and in plumbing repairs. Plumbing fixtures, piping and solder without a “lead-free” designation were banned from sale after Aug. 6, 1998.

THE LEAD CONTAMINATION CONTROL ACT (LCCA) (1988):

The LCCA further amended the SDWA. The LCCA is aimed at the identification and reduction of lead in drinking water at schools and child care facilities. However, implementation and enforcement of the LCCA has been at each state’s discretion. School monitoring and compliance has varied widely.

THE LEAD AND COPPER RULE (1991):

A regulation by EPA to minimize the corrosivity and amount of lead and copper in water supplied by public water systems.

THE REDUCTION IN LEAD IN DRINKING WATER ACT (2011):

This act took effect on Jan. 4, 2014. All water systems that provide water for human consumption must use material that meet the updated “lead-free” requirement. The new standard lowered the allowable lead content of wetted surfaces from 8.0 percent to a weighted average of 0.25 percent.

APPENDIX 6

INITIAL SCREENING & CONFIRMATION SAMPLING OVERVIEW - BY PUBLIC SCHOOL DISTRICT

PUBLIC SCHOOL DISTRICT	INITIAL SCREENING				PERCENT BELOW SCREENING LEVEL	PERCENT ABOVE SCREENING LEVEL
	NUMBER OF SAMPLES					
	LEAD NOT DETECTED	BELOW SCREENING LEVEL	ABOVE SCREENING LEVEL	TOTAL COLLECTED		
Agua Fria Union High School	61	28	2	91	98%	2%
Ajo Unified	9	14	0	23	100%	0%
Alhambra Elementary	115	178	13	306	96%	4%
Alpine Elementary	2	4	1	7	86%	14%
Altar Valley Elementary	4	9	2	15	87%	13%
Amphitheater Unified	241	28	3	272	99%	1%
Apache Elementary	0	2	0	2	100%	0%
Apache Junction Unified	27	30	1	58	98%	2%
Arlington Elementary	2	0	0	2	100%	0%
Ash Fork Unified	3	0	0	3	100%	0%
Avondale Elementary	77	24	2	103	98%	2%
Bagdad Unified	8	7	1	16	94%	6%
Balsz Elementary	86	3	1	90	99%	1%
Benson Unified	14	36	0	50	100%	0%
Bicentennial Union High School	5	6	0	11	100%	0%
Bisbee Unified	11	22	2	35	94%	6%
Blue Elementary	1	1	0	2	100%	0%
Blue Ridge Unified	5	25	5	35	86%	14%
Bowie Unified	11	14	1	26	96%	4%
Buckeye Elementary	17	1	0	18	100%	0%
Buckeye Union High School	38	1	0	39	100%	0%
Bullhead City Elementary	25	24	1	50	98%	2%
Canon Elementary	0	6	0	6	100%	0%
Cartwright Elementary	60	219	47	326	86%	14%
Casa Grande Elementary	40	41	3	84	96%	4%
Casa Grande Union High School	17	6	0	23	100%	0%
Catalina Foothills Unified	57	64	1	122	99%	1%
Cave Creek Unified	53	20	4	77	95%	5%
Cedar Unified	0	11	1	12	92%	8%
Chandler Unified	223	91	12	326	96%	4%
Chinle Unified	26	20	4	50	92%	8%
Chino Valley Unified	5	0	0	5	100%	0%
Clarkdale-Jerome Elementary	2	14	2	18	89%	11%
Coconino Accommodation	0	2	0	2	100%	0%
Colorado City Unified	3	3	0	6	100%	0%
Colorado River Union High School	7	17	0	24	100%	0%
Concho Elementary	3	8	0	11	100%	0%
Congress Elementary	2	0	0	2	100%	0%
Continental Elementary	1	6	0	7	100%	0%
Coolidge Unified	28	14	1	43	98%	2%
Cottonwood-Oak Creek Elementary	6	28	0	34	100%	0%
Crane Elementary	27	11	1	39	97%	3%
Creighton Elementary	21	130	12	163	93%	7%
Crown King Elementary	1	1	0	2	100%	0%
Deer Valley Unified	202	177	8	387	98%	2%

APPENDIX 6 CONT.

INITIAL SCREENING & CONFIRMATION SAMPLING OVERVIEW - BY PUBLIC SCHOOL DISTRICT

PUBLIC SCHOOL DISTRICT	INITIAL SCREENING					
	NUMBER OF SAMPLES				PERCENT BELOW SCREENING LEVEL	PERCENT ABOVE SCREENING LEVEL
	LEAD NOT DETECTED	BELOW SCREENING LEVEL	ABOVE SCREENING LEVEL	TOTAL COLLECTED		
Douglas Unified	66	31	1	98	99%	1%
Duncan Unified	3	6	1	10	90%	10%
Dysart Unified	64	23	0	87	100%	0%
Elfrida Elementary	13	9	0	22	100%	0%
Eloy Elementary	23	17	0	40	100%	0%
Flagstaff Unified	10	38	1	49	98%	2%
Florence Unified School	60	45	0	105	100%	0%
Flowing Wells Unified	42	92	1	135	99%	1%
Fountain Hills Unified	11	1	0	12	100%	0%
Fowler Elementary	25	15	0	40	100%	0%
Fredonia-Moccasin Unified	1	13	3	17	82%	18%
Ft Thomas Unified	2	21	0	23	100%	0%
Gadsden Elementary	1	37	1	39	97%	3%
Ganado Unified	4	19	2	25	92%	8%
Gila Bend Unified	17	12	1	30	97%	3%
Gilbert Unified	193	83	12	288	96%	4%
Glendale Elementary	167	77	4	248	98%	2%
Glendale Union High School	99	116	10	225	96%	4%
Globe Unified	8	27	0	35	100%	0%
Graham County Special Services	2	0	0	2	100%	0%
Grand Canyon Unified	0	13	0	13	100%	0%
Hackberry School	1	2	0	3	100%	0%
Hayden-Winkelman	6	17	9	32	72%	28%
Heber-Overgaard Unified	7	22	0	29	100%	0%
Higley Unified	52	6	2	60	97%	3%
Holbrook Unified	14	46	0	60	100%	0%
Humboldt Unified	45	9	1	55	98%	2%
Indian Oasis-Baboquivari Unified	31	25	1	57	98%	2%
Isaac Elementary	36	91	10	137	93%	7%
J O Combs Unified	17	2	0	19	100%	0%
Joseph City Unified	12	13	1	26	96%	4%
Kayenta Unified	29	27	1	57	98%	2%
Kingman Unified	48	20	0	68	100%	0%
Kyrene Elementary	57	76	3	136	98%	2%
Lake Havasu Unified	6	29	1	36	97%	3%
Laveen Elementary	28	4	0	32	100%	0%
Liberty Elementary	17	0	0	17	100%	0%
Litchfield Elementary	90	7	1	98	99%	1%
Littleton Elementary	31	4	1	36	97%	3%
Madison Elementary	25	40	1	66	98%	2%
Maine Consolidated	1	12	2	15	87%	13%
Mammoth-San Manuel Unified	3	3	1	7	86%	14%
Marana Unified	89	150	5	244	98%	2%
Maricopa Unified School	21	3	1	25	96%	4%
Mary C O'Brien Accommodation	7	17	0	24	100%	0%

APPENDIX 6 CONT.

INITIAL SCREENING & CONFIRMATION SAMPLING OVERVIEW - BY PUBLIC SCHOOL DISTRICT

PUBLIC SCHOOL DISTRICT	INITIAL SCREENING					
	NUMBER OF SAMPLES				PERCENT BELOW SCREENING LEVEL	PERCENT ABOVE SCREENING LEVEL
	LEAD NOT DETECTED	BELOW SCREENING LEVEL	ABOVE SCREENING LEVEL	TOTAL COLLECTED		
Mayer Unified	5	14	1	20	95%	5%
McNary Elementary	1	1	0	2	100%	0%
Mesa Unified	845	277	128	1250	90%	10%
Miami Unified	11	30	7	48	85%	15%
Mohave Valley Elementary	5	19	1	25	96%	4%
Morenci Unified	5	17	0	22	100%	0%
Morristown Elementary	4	6	0	10	100%	0%
Murphy Elementary	13	57	10	80	88%	13%
Naco Elementary	4	1	0	5	100%	0%
Nadaburg Unified	1	1	0	2	100%	0%
Navajo County Accommodation	1	2	1	4	75%	25%
Nogales Unified	30	89	5	124	96%	4%
Oracle Elementary	4	18	2	24	92%	8%
Osborn Elementary	17	55	1	73	99%	1%
Page Unified	15	24	0	39	100%	0%
Paradise Valley Unified School	209	355	14	578	98%	2%
Parker Unified School	53	46	3	102	97%	3%
Patagonia Union High School	2	9	0	11	100%	0%
Payson Unified	4	29	4	37	89%	11%
Peach Springs Unified	8	8	0	16	100%	0%
Pendergast Elementary	119	5	0	124	100%	0%
Peoria Unified	235	233	20	488	96%	4%
Phoenix Elementary	99	55	7	161	96%	4%
Phoenix Union High School	125	139	8	272	97%	3%
Pima Unified	20	3	1	24	96%	4%
Pine Strawberry Elementary	2	10	2	14	86%	14%
Pinon Unified	6	2	0	8	100%	0%
Pomerene Elementary	3	5	0	8	100%	0%
Prescott Unified	64	12	1	77	99%	1%
Quartzsite Elementary	14	7	0	21	100%	0%
Queen Creek Unified	37	6	0	43	100%	0%
Ray Unified	4	30	2	36	94%	6%
Red Mesa Unified	28	9	2	39	95%	5%
Riverside Elementary	7	5	0	12	100%	0%
Roosevelt Elementary	79	91	7	177	96%	4%
Round Valley Unified	7	18	1	26	96%	4%
Sacaton Elementary	7	31	2	40	95%	5%
Saddle Mountain Unified	10	1	0	11	100%	0%
Safford Unified	101	0	0	101	100%	0%
Sahuarita Unified	48	27	1	76	99%	1%
Salome Consolidated Elementary	4	1	0	5	100%	0%
San Carlos Unified	0	11	0	11	100%	0%
San Fernando Elementary	1	1	0	2	100%	0%
San Simon Unified	9	6	0	15	100%	0%
Sanders Unified	7	1	1	9	89%	11%

APPENDIX 6 CONT.

INITIAL SCREENING & CONFIRMATION SAMPLING OVERVIEW - BY PUBLIC SCHOOL DISTRICT

INITIAL SCREENING						
PUBLIC SCHOOL DISTRICT	NUMBER OF SAMPLES				PERCENT BELOW SCREENING LEVEL	PERCENT ABOVE SCREENING LEVEL
	LEAD NOT DETECTED	BELOW SCREENING LEVEL	ABOVE SCREENING LEVEL	TOTAL COLLECTED		
Santa Cruz Elementary	1	7	0	8	100%	0%
Santa Cruz Valley Unified	10	65	0	75	100%	0%
Santa Cruz Valley Union High School	10	12	2	24	92%	8%
Scottsdale Unified	237	137	14	388	96%	4%
Sedona Oak-Creek Joint Unified School	4	23	2	29	93%	7%
Seligman Unified	5	19	0	24	100%	0%
Show Low Unified	6	30	1	37	97%	3%
Sierra Vista Unified	14	67	4	85	95%	5%
Snowflake Unified	12	48	1	61	98%	2%
Solomon Elementary	5	15	1	21	95%	5%
Somerton Elementary	4	20	0	24	100%	0%
St David Unified	10	7	0	17	100%	0%
St Johns Unified	5	17	0	22	100%	0%
Sunnyside Unified	49	143	4	196	98%	2%
Superior Unified	7	3	0	10	100%	0%
Tanque Verde Unified	55	1	0	56	100%	0%
Tempe Elementary	49	107	14	170	92%	8%
Tempe Union High School	81	53	9	143	94%	6%
Thatcher Unified	10	5	0	15	100%	0%
Tolleson Elementary	25	4	0	29	100%	0%
Tolleson Union High School	49	21	2	72	97%	3%
Toltec School	4	15	0	19	100%	0%
Tombstone Unified	0	37	3	40	93%	8%
Topock Elementary	4	0	0	4	100%	0%
Tuba City Unified	16	14	2	32	94%	6%
Tucson Unified	309	239	10	558	98%	2%
Union Elementary	5	10	0	15	100%	0%
Vail Unified	62	65	0	127	100%	0%
Valentine Elementary	3	2	0	5	100%	0%
Valley Union High School	2	0	0	2	100%	0%
Vernon Elementary	2	2	1	5	80%	20%
Washington Elementary	277	79	5	361	99%	1%
Wellton Elementary	4	11	0	15	100%	0%
Wenden Elementary	3	0	0	3	100%	0%
Whiteriver Unified	6	15	0	21	100%	0%
Wickenburg Unified	23	12	2	37	95%	5%
Willcox Unified	23	14	2	39	95%	5%
Williams Unified	5	10	1	16	94%	6%
Wilson Elementary	5	13	1	19	95%	5%
Window Rock Unified	25	34	1	60	98%	2%
Winslow Unified	18	18	0	36	100%	0%
Yavapai Accommodation	1	1	0	2	100%	0%
Yucca Elementary	2	1	0	3	100%	0%
Yuma Elementary	117	68	3	188	98%	2%

APPENDIX 6 CONT.

INITIAL SCREENING & CONFIRMATION SAMPLING OVERVIEW - BY PUBLIC SCHOOL DISTRICT

INITIAL SCREENING						
PUBLIC SCHOOL DISTRICT	NUMBER OF SAMPLES				PERCENT BELOW SCREENING LEVEL	PERCENT ABOVE SCREENING LEVEL
	LEAD NOT DETECTED	BELOW SCREENING LEVEL	ABOVE SCREENING LEVEL	TOTAL COLLECTED		
Yuma Union High School	55	29	6	90	93%	7%
Totals	6922	5926	532	13380		
CONFIRMATION SAMPLING^						
PUBLIC SCHOOL DISTRICT	NUMBER OF SAMPLES				PERCENT BELOW SCREENING LEVEL	PERCENT ABOVE SCREENING LEVEL
	LEAD NOT DETECTED	BELOW SCREENING LEVEL	ABOVE SCREENING LEVEL	TOTAL COLLECTED		
Agua Fria Union High School	14	2	1	17	94%	6%
Alhambra Elementary	1	89	48	138	65%	35%
Alpine Elementary	0	15	8	23	65%	35%
Altar Valley Elementary	2	1	0	3	100%	0%
Amphitheater Unified	6	3	1	10	90%	10%
Apache Junction Unified	0	4	2	6	67%	33%
Avondale Elementary	6	0	1	7	86%	14%
Balsz Elementary	18	0	0	18	100%	0%
Bisbee Unified	0	5	1	6	83%	17%
Blue Ridge Unified School	3	6	0	9	100%	0%
Bowie Unified	3	0	0	3	100%	0%
Bullhead City Elementary	0	10	0	10	100%	0%
Cartwright Elementary	67	114	71	252	72%	28%
Casa Grande Elementary	1	3	0	4	100%	0%
Cave Creek Unified	12	28	18	58	69%	31%
Chandler Unified	51	2	0	53	100%	0%
Chinle Unified	4	27	1	32	97%	3%
Clarkdale-Jerome Elementary	1	2	4	7	43%	57%
Coolidge Unified	0	5	3	8	63%	38%
Crane Elementary	3	5	0	8	100%	0%
Creighton Elementary	4	40	42	86	51%	49%
Deer Valley Unified	21	2	1	24	96%	4%
Duncan Unified	1	2	0	3	100%	0%
Flagstaff Unified	1	25	4	30	87%	13%
Fredonia-Moccasin Unified	3	1	3	7	57%	43%
Flowing Wells Unified	0	1	2	3	33%	67%
Gadsden Elementary	0	3	0	3	100%	0%
Ganado Unified	1	9	1	11	91%	9%
Gila Bend Unified	0	1	2	3	33%	67%
Gilbert Unified	64	17	2	83	98%	2%
Glendale Elementary	1	6	6	13	54%	46%
Glendale Union High School	33	24	43	100	57%	43%
Hayden-Winkelman Unified	0	10	12	22	45%	55%
Higley Unified	7	4	2	13	85%	15%
Humboldt Unified	0	3	0	3	100%	0%
Indian Oasis-Baboquivari Unified	0	4	0	4	100%	0%
Isaac Elementary	16	21	16	53	70%	30%
Joseph City Unified	0	4	0	4	100%	0%
Kayenta Unified	3	33	3	39	92%	8%
Kyrene Elementary	17	4	8	29	72%	28%
Lake Havasu Unified	0	8	1	9	89%	11%

APPENDIX 6 CONT.

INITIAL SCREENING & CONFIRMATION SAMPLING OVERVIEW - BY PUBLIC SCHOOL DISTRICT

CONFIRMATION SAMPLING [^]						
PUBLIC SCHOOL DISTRICT	NUMBER OF SAMPLES				PERCENT BELOW SCREENING LEVEL	PERCENT ABOVE SCREENING LEVEL
	LEAD NOT DETECTED	BELOW SCREENING LEVEL	ABOVE SCREENING LEVEL	TOTAL COLLECTED		
Mammoth-San Manuel Unified	2	9	4	15	73%	27%
Marana Unified	17	16	6	39	85%	15%
Maricopa Unified School	1	4	0	5	100%	0%
Mayer Unified	0	3	0	3	100%	0%
Mesa Unified	51	199	173	423	59%	41%
Miami Unified	7	19	3	29	90%	10%
Murphy Elementary	26	18	11	55	80%	20%
Navajo County Accommodation	0	7	0	7	100%	0%
Nogales Unified	0	12	2	14	86%	14%
Osborn Elementary	2	1	3	6	50%	50%
Paradise Valley Unified School	18	30	31	79	61%	39%
Parker Unified School	0	11	0	11	100%	0%
Payson Unified	0	8	1	9	89%	11%
Peoria Unified	100	7	1	108	99%	1%
Phoenix Elementary	14	9	6	29	79%	21%
Phoenix Union High School	35	17	10	62	84%	16%
Pima Unified	3	0	0	3	100%	0%
Pine Strawberry Elementary	0	3	3	6	50%	50%
Prescott Unified	3	0	0	3	100%	0%
Ray Unified	0	5	1	6	83%	17%
Red Mesa Unified	5	6	0	11	100%	0%
Roosevelt Elementary	27	19	5	51	90%	10%
Round Valley Unified	0	13	8	21	62%	38%
Sahuarita Unified	0	3	0	3	100%	0%
Sanders Unified	0	5	0	5	100%	0%
Santa Cruz Valley Union High School	4	3	0	7	100%	0%
Scottsdale Unified	42	91	45	178	75%	25%
Sedona-Oak Creek Joint Unified	0	9	0	9	100%	0%
Sierra Vista Unified	4	8	1	13	92%	8%
Solomon Elementary	0	5	0	5	100%	0%
Sunnyside Unified	6	5	27	38	29%	71%
Tempe Elementary	2	52	20	74	73%	27%
Tempe Union High School	7	10	10	27	63%	37%
Tolleson Union High School	2	18	4	24	83%	17%
Tombstone Unified	0	7	1	8	88%	13%
Tuba City Unified	7	7	1	15	93%	7%
Tucson Unified	27	13	7	47	85%	15%
Washington Elementary	13	3	8	24	67%	33%
Wickenburg Unified	1	1	1	3	67%	33%
Willcox Unified	2	4	0	6	100%	0%
Williams Unified	3	0	0	3	100%	0%
Wilson Elementary	19	4	0	23	100%	0%
Yuma Elementary	4	14	1	19	95%	5%
Yuma Union High School	0	4	1	5	80%	20%
Totals:	818	1225	702	2745		

APPENDIX 7

INITIAL SCREENING & CONFIRMATION SAMPLING OVERVIEW - BY COUNTY

INITIAL SCREENING RESULTS BY COUNTY						
PUBLIC SCHOOL DISTRICT	NUMBER OF SAMPLES				PERCENT BELOW SCREENING LEVEL	PERCENT ABOVE SCREENING LEVEL
	LEAD NOT DETECTED	BELOW SCREENING LEVEL	ABOVE SCREENING LEVEL	TOTAL COLLECTED		
Apache	110	133	13	256	95%	5%
Cochise	180	251	13	444	97%	3%
Coconino	48	126	9	183	95%	5%
Gila	31	124	22	177	88%	12%
Graham	140	44	2	186	99%	1%
Greenlee	9	24	1	34	97%	3%
La Paz	79	60	3	142	98%	2%
Maricopa	4418	3149	388	7955	95%	5%
Mohave	112	125	3	240	99%	1%
Navajo	116	259	11	386	97%	3%
Pima	998	864	28	1890	99%	1%
Pinal	279	287	15	581	97%	3%
Santa Cruz	43	170	5	218	98%	2%
Yavapai	151	134	8	293	97%	3%
Yuma	208	176	11	395	97%	3%
Totals:	6922	5926	532	13380		

CONFIRMATION SAMPLING RESULTS BY COUNTY [^]						
PUBLIC SCHOOL DISTRICT	NUMBER OF SAMPLES				PERCENT BELOW SCREENING LEVEL	PERCENT ABOVE SCREENING LEVEL
	LEAD NOT DETECTED	BELOW SCREENING LEVEL	ABOVE SCREENING LEVEL	TOTAL COLLECTED		
Apache	10	75	18	103	83%	17%
Cochise	9	24	3	36	92%	8%
Coconino	11	33	7	51	86%	14%
Gila	7	40	19	66	71%	29%
Graham	3	5	0	8	100%	0%
Greenlee	1	2	0	3	100%	0%
La Paz	0	11	0	11	100%	0%
Maricopa	691	833	589	2113	72%	28%
Mohave	0	18	1	19	95%	5%
Navajo	6	50	3	59	95%	5%
Pima	61	46	44	151	71%	29%
Pinal	8	33	10	51	80%	20%
Santa Cruz	0	12	2	14	86%	14%
Yavapai	4	17	4	25	84%	16%
Yuma	7	26	2	35	94%	6%
Totals:	818	1225	702	2745		

[^] Confirmation Sampling was conducted for the 422 fixtures identified during Initial Screening. In addition, all other drinking water fixtures located in these buildings were tested, bringing the total number of fixtures tested during Confirmation Sampling to 1,824.

View individual school results on the ADEQ Proactive Screening Program webpage: <http://azdeq.gov/LeadScreeningProg>.

