

# MOON TOWNSHIP MUNICIPAL AUTHORITY

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## LEAD AND COPPER SAMPLING REPORT PREPARED FEBRUARY 6, 2017

THE MOON TOWNSHIP MUNICIPAL AUTHORITY (MTMA) COPPER AND LEAD WATER SAMPLE ANALYSIS HAS CONSISTENTLY CONFIRMED COMPLIANCE WITH EPA AND PA DEP REQUIREMENTS. THESE RESULTS ARE PUBLISHED ANNUALLY ON THE MTMA CONSUMER CONFIDENCE REPORT.

LEAD IS NOT TYPICALLY FOUND IN TREATED WATER BUT CAN BE RELEASED INTO THE WATER WITHIN A HOME OR BUSINESS FROM LEAD WATER SERVICE LINES. WATER SERVICE LINES INSTALLED BEFORE 1930 HAVE A GREATER LIKELIHOOD OF CONTAINING LEAD. THE FIRST MOON TOWNSHIP PUBLIC WATER SUPPLY, WHICH LATER BECAME PART OF THE MTMA SYSTEM, WAS INSTALLED IN 1942 AND 1943 BY THE US GOVERNMENT TO SERVE THE MOONCREST DEVELOPMENT. MOONCREST WAS BUILT TO PROVIDE HOUSING FOR WORKERS ON NEVILLE ISLAND WHO WERE MANUFACTURING EQUIPMENT FOR THE WAR EFFORT. FORTUNATELY, COPPER SERVICE LINES WERE INSTALLED IN THIS DEVELOPMENT. THE MTMA BEGAN OPERATION IN THE 1950'S AND ONLY ALLOWED COPPER PIPE FOR CUSTOMER SERVICE LINES. NO LEAD SERVICE LINES WERE PERMITTED. THIS HAS BEEN VERIFIED BY REVIEW OF CUSTOMER FILES.

LEAD CAN BE RELEASED INTO THE WATER FROM BUILDING PLUMBING THAT HAS COPPER WATER LINES WITH LEAD SOLDER JOINTS. LEAD SOLDER WAS PHASED OUT IN THE MID TO LATE 1980'S. BY 1989, NO LEAD SOLDER WAS BEING USED. LEAD FREE SOLDER WAS REQUIRED FROM THAT POINT ON.

THE MTMA TREATS OUR WATER TO KEEP IT IN A NEUTRAL STATE SO THE WATER IS NEITHER AGGRESSIVE NOR PRONE TO RESULT IN EXCESSIVE MINERAL DEPOSITS. THE WATER CHEMISTRY IS ADJUSTED THROUGHOUT THE YEAR USING THE LANGELIER SATURATION INDEX (LSI). THE MTMA ADJUSTS ITS WATER CHEMISTRY TO ENSURE THAT THE WATER IS NOT AGGRESSIVE AND WILL NOT BREAK DOWN EITHER LEAD IN PLUMBING SOLDER JOINTS OR COPPER IN THE PLUMBING ITSELF.

THE EPA AND PA DEP HAVE ESTABLISHED A FREQUENCY FOR WATER SAMPLES TO BE COLLECTED FROM HOMES TO DETERMINE LEAD AND COPPER CONCENTRATIONS. FOR COPPER, 90% OF SAMPLES COLLECTED SHOULD BE BELOW 1.3 PARTS PER MILLION. FOR LEAD, 90% OF SAMPLES SHOULD BE BELOW 15 PARTS PER BILLION. THE MTMA HAS 279

SINGLE FAMILY RESIDENTIAL CUSTOMERS WITH HOMES THAT WERE CONSTRUCTED BETWEEN 1983 AND 1988 THAT ARE BELIEVED TO HAVE COPPER WATER PLUMBING WITH LEAD SOLDER JOINTS. THESE CUSTOMERS ARE CLASSIFIED AS TIER 1. THE MTMA HAS 58 MULTI-FAMILY AND COMMERCIAL CUSTOMERS BELIEVED TO HAVE COPPER PLUMBING WITH LEAD SOLDER JOINTS AT PROPERTIES CONSTRUCTED BETWEEN 1983 AND 1988. THESE CUSTOMERS ARE CLASSIFIED AS TIER 2. THE MTMA HAS 4,775 SINGLE FAMILY CUSTOMERS BELIEVED TO HAVE COPPER PLUMBING WITH LEAD SOLDER JOINTS IN HOMES CONSTRUCTED BEFORE 1983. THESE CUSTOMERS ARE CLASSIFIED AS TIER 3. THE MTMA HAS BEEN DIRECTED BY THE ALLEGHENY COUNTY HEALTH DEPARTMENT TO COLLECT SAMPLES FOR ANALYSIS FROM TIER 1 CUSTOMERS.

THE MTMA HAS ADDED THE GOOD RESULTS OF ITS 2016 LEAD AND COPPER TESTING TO ITS LONG HISTORY OF COMPLIANCE. NINETY PERCENT OF SAMPLES ANALYZED FOR COPPER WERE BELOW 0.178 PARTS PER MILLION, WELL BELOW THE ACTION LEVEL OF 1.3 PPM. NINETY PERCENT OF SAMPLES ANALYZED FOR LEAD WERE BELOW 5 PARTS PER BILLION, WELL BELOW THE ACTION LEVEL OF 15 PPB. WATER SYSTEMS THAT HAVE RESULTS EXCEEDING THE ACTION LEVEL ARE SUBJECT TO INCREASED TESTING AND MUST TAKE STEPS TO REDUCE LEAD AND/OR COPPER LEVELS.

THE MTMA WILL CONTINUE TO RESPONSIBLY MANAGE WATER TREATMENT TO KEEP THE WATER IN A NON-AGGRESSIVE STATE TO AVOID ELEVATED LEAD AND COPPER LEVELS. THE SAMPLE ANALYSIS RESULTS WILL CONTINUE TO BE DOCUMENTED ANNUALLY ON THE CONSUMER CONFIDENCE REPORT.

FOR MORE INFORMATION ON REDUCING LEAD EXPOSURE AROUND YOUR HOME AND THE HEALTH EFFECTS OF LEAD, VISIT EPA'S WEBSITE AT [WWW.EPA.GOV/LEAD](http://WWW.EPA.GOV/LEAD), CALL THE NATIONAL LEAD INFORMATION CENTER AT 800-424-LEAD OR CONTACT YOUR HEALTH CARE PROVIDER.