



Liberty Utilities (Apple Valley Ranchos) Corp. (PWS No. CA3610003)

Verification of Lead Status Unknown

February 2, 2024

Acronyms

LCRR	Lead and Copper Rule Revision
LSL	Lead Service Line
PWS	Public Water System
SL	Service Line

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Background

The Lead and Copper Rule Revision (LCRR) requires the PWS to develop an inventory to identify the materials of service lines connected to the public water distribution system (40 CFR §141.84(a)). The PWS must also review sources of information to identify service line materials for the initial inventory. The water system may use sources of information if approved by the State (40 CFR §141.84(a)(3)) such as any identification method to assess service lines materials (40 CFR §141.84(a)(3)(iv)).

One identification method or verification strategy is a statistical approach. The statistical approach allows for completing a service line inventory with a 95% level of statistical confidence (with ±5% margin of error and 50% sample proportion).

A key factor in the success of the strategy mentioned above is the use of a randomly generated list of unknown service lines to be physically inspected. If ANY service line is found to be an LSL (either through the initial records review or the verification process), then this framework will not be used, and an alternate process will be discussed with the State. If NO service line is found to be lead through the records review and verification process, then the remaining unknown service lines will be classified as non-lead, and the submitted inventory will be final (e.g., containing all non-lead service lines). If, in the future, an LSL is found, then the water system will contact the state within 30 days to discuss a path forward. . **Since Liberty acquired Liberty Utilities (Apple Valley Ranchos) Corp. in January 2016, Liberty has not encountered any lead service lines.**

Known service lines are defined as service lines where the pipe materials are classified using records⁽¹⁾. Records that can be used to classify a SL are mentioned in 40 CFR §141.84 (a)(3)(i),(ii),(iii),(iv). Records showing that service lines were installed after the state lead ban (or local ordinance with an earlier lead ban) and service lines >2 inches (diameter allowance depends on state) will be considered known and classified as non-lead.

Unknown service lines are defined as a service line of unknown material with no/low confidence documented material history⁽¹⁾.

Identification methods or verification strategies are based on system size. The verification strategies for the identification of unknown service lines are:

- ✓ Interpolation: Best for small systems with less than 1,500 unknown service connections. For the interpolation method, the PWS must physically verify at least 20% of the total number of unknown service lines.
- ✓ Stratified Random Sampling: Best for medium systems (1,500 to 10,000 unknown service connections); to large systems (more than 10,000 unknown service connections.) For the stratified random sampling, the PWS must physically verify enough lines to reach a minimum 95% confidence level.

Identification Process

Before using the statistical approach to identify unknown service lines, Liberty completed the initial inventory using approved methodologies, such as the ones mentioned in 40 CFR §141.84 (a)(3), as well as

post-1986 construction and larger pipe diameters, to categorize service lines. Based on the applied methodologies, no LSLs were found. Therefore, it is appropriate to use the statistical approach.

The statistical method includes the following steps:

- ✓ Step 1: Identification of all service lines of unknown material.
- ✓ Step 2: Identification of the number of service lines to be physically inspected.
- ✓ Step 3: Random selection of service lines for physical inspection.
- ✓ Step 4: Physical inspection of the service lines.
- ✓ Step 5: Record of the physical inspection process.
- ✓ Step 6: Results input of unknown service lines into the inventory.
- ✓ Step 7: Retention of identification records.

Step 1: Identification of all service lines of unknown material.

Table 1 shows the total of service connections in Liberty Utilities (Apple Valley Ranchos) Corp. (PWS. No. CA3610003).

Table 2 presents the total number of all the water service lines that could not be categorized using the approved methodologies shown in 40 CFR §141.84 (a)(3) for Liberty Utilities (Apple Valley Ranchos) Corp. (PWS No. CA3610003).

Table 1: Total of Service Connections

System Name	Total of Service Connections
Liberty Utilities (Apple Valley Ranchos) Corp.	20,908

Table 2: Service Lines with unknown materials

Category		Number of Service Lines
Public Side	Private Side	
Unknown	Unknown	624
Known (non-lead)	Unknown	6,025
Unknown	Known (non-lead)	58
Total		6,707

Table 3 shows the categorization of the unknown service lines by decades:

Table 3: Categorization of unknown service lines by decades

Decade	Unknown SLs by Decade	Percentage of Unknown SLs by Decade
< 1900s	1	0.015%
1901 - 1939	5	0.075%
1940 - 1949	130	1.938%
1950 - 1986	6,571	97.972%
Total	6,707	100%

Step 2: Identification of the Number of Service Lines to be Physically Inspected.

Liberty Utilities (Apple Valley Ranchos) Corp. has more than 1,500 unknown service lines, so the Stratified Random Sampling method is appropriate. Using the Stratified Random Sampling method, the PWS must physically verify an amount of the total number of unknowns maintaining a minimum of 95 percent level of statistical confidence. To ensure that the confidence level in the results is higher, Liberty is proposing the verification of 50% more than the minimum number required.

The Stratified Random Sampling method considers the following:

- ✓ Buildings built between 1950 and 1986, very little to no lead was used on private property.
- ✓ Buildings built between 1900 and 1950, splitting the system up by decades depending on how many buildings fit in each decade would be important.
- ✓ Buildings built prior to 1900, lead is likely to be found.

Table 4 presents the minimum and proposed number of unknown service lines to be physically verified by decades.

Table 4: Minimum and Proposed Number of Unknown SLs to be Physically Verified by Decades

Built year	Total of Unknown SLs	Number of SLs to Verify (Minimum)	Number of SLs to Verify (Minimum x 1.5) (Proposed)
< 1900s	1	1	1
1901 - 1939	5	5	5
1940 - 1949	130	26	39
1950 - 1986	6,571	363	545
Total	6,707	394	590

Step 3: Random Selection of Service Lines for Physical Inspection.

From the number of unknown service lines identified in Step 1 and the proposed number from Step 2, Liberty randomly selected service lines to be physically inspected as determined in Step 2. The selection was uniformly random and not based on any specific criteria, which could introduce bias.

The generation of the uniformly random set of service lines for inspection was created using a Microsoft Excel spreadsheet utilizing the RAND function. The RAND function in Excel is one of the functions specially designed for generating random numbers ⁽²⁾.

The list of the random set of service lines for physical inspection is presented in Appendix A. The locations were separated by built date.

Step 4: Physical inspection of the service lines.

The type of service line verification method that Liberty will use is:

- ✓ **Private Side:** Meter Pit Inspection.

At least one point of verification will be conducted for the portion of the unknown service line. The verification method includes meter pit inspection. If one or more of the original randomly selected sites cannot be verified, the next available location from the random number generation will be used. For example, if a system has 2,000 unknowns and has to verify 322 SLs but is only able to verify 312 SLs, then the next 10 SLs will be taken from the original random number list (e.g., 323 to 333).

Appendix B shows the LSL Field Investigation Sheet for a single site that Liberty will use in the verification process.

Step 5: Record of the physical inspection process.

Liberty will use a Microsoft Excel spreadsheet to enter the service line category and materials observed at each point. The four service line category types shown in 40 CFR §141.84 (4) are lead, non-lead, Non-Lead, and unknown. Liberty will use subclassification categories (e.g., copper, plastic) to capture the various material types for Liberty's records.

Appendix C shows the recordkeeping spreadsheet that will be used to record the findings.

Step 6: Results input of unknown service lines into the inventory.

For unknown service lines that will be inspected for the statistical sampling, Liberty will record the water system material identification method (physical inspection – meter pit inspection). Liberty will list the exact line material type in the inventory spreadsheet found in Appendix C.

For unknown service lines not needing to be inspected, Liberty will record the material identification method as “*statistical*” and service line material as *non-lead*.

Step 7: Retention of Identification Records.

Liberty will retain all the documentation of all service line identification efforts and will be available to the Division of Drinking water (DDW) if requested.

References

(1) Oregon Health Authority. Statistical Guidance for Evaluating Unknown Service Lines. March 2023.

(2) Cheusheva, Svetlana. How to generate random numbers in Excel: RAND and RANDBETWEEN functions. Available at: <https://www.ablebits.com/office-addins-blog/random-number-generator-excel/>

Appendix A: Random Set of Service Lines for Physical Inspection <1900

Location	Built Date	Material on the Public Side	Material on the Private Side
15873 Sago Rd.	1886	Unknown	Non-Lead

1901 – 1939

Location	Built Date	Material on Public Side	Material on Private Side
19375 Shoshonee Rd	1930	Unknown	Unknown
12542 Cabazon Ct	1925	Non-Lead	Unknown
13342 Rincon Rd	1937	Non-Lead	Unknown
18819 Siesta Dr	1938	Non-Lead	Unknown
14344 Central Rd	1939	Unknown	Non-Lead

1940 – 1949

Location	Built Date	Material on Public Side	Material on Private Side
22193 Broken Lance Rd	1948	Non-Lead	Unknown
21849 Cherokee Ave	1948	Non-Lead	Unknown
15617 Mondamon Rd	1949	Unknown	Unknown
15783 Rancherias Rd	1946	Unknown	Unknown
13834 Osage Rd	1946	Non-Lead	Unknown
21150 Us Highway 18	1948	Unknown	Unknown
21431 Us Highway 18	1947	Non-Lead	Unknown
21941 Macauley Rd	1947	Unknown	Unknown
21904 Fox Ave	1947	Non-Lead	Unknown
11415 Apple Valley Rd (Av01347998)	1940	Non-Lead	Unknown
22014 Cherokee Ave	1948	Non-Lead	Unknown
13767 Lakota Rd	1948	Non-Lead	Unknown
21854 Fox Ave	1947	Non-Lead	Unknown
14461 Hopi Rd	1949	Non-Lead	Unknown
21886 Hurons Ave	1948	Non-Lead	Unknown
21890 Esaws Rd	1949	Non-Lead	Unknown
16098 Tao Rd	1949	Non-Lead	Unknown
14060 Osage Rd	1949	Non-Lead	Unknown
21882 Arapahoe Ave	1947	Non-Lead	Unknown
21225 Thunderbird Rd	1946	Non-Lead	Unknown

1940 – 1949 (Continued)

Location	Built Date	Material on Public Side	Material on Private Side
15791 Winnebago Rd	1945	Non-Lead	Unknown
15989 Nancotta Rd	1948	Unknown	Unknown
20736 Us Highway 18	1946	Non-Lead	Unknown
14253 Kiowa Rd	1949	Unknown	Unknown
14990 Blackfoot Rd	1947	Non-Lead	Unknown
14115 Navajo Rd	1948	Non-Lead	Unknown
13875 Navajo Rd	1948	Non-Lead	Unknown
21604 Pine Ridge Ave	1949	Unknown	Unknown
13575 Lakota Rd	1949	Non-Lead	Unknown
21073 Pine Ridge Ave	1948	Non-Lead	Unknown
20820 Pine Ridge Ave	1947	Non-Lead	Unknown
11415 Apple Valley Rd (Av211605992)	1940	Non-Lead	Unknown
21875 Arapahoe Ave	1947	Non-Lead	Unknown
20961 Us Highway 18	1948	Non-Lead	Unknown
16100 Navajo Rd	1949	Non-Lead	Unknown
13858 Osage Rd	1947	Non-Lead	Unknown
21444 Ramona Ave	1948	Non-Lead	Unknown
21994 Arapahoe Ave	1947	Non-Lead	Unknown
15221 Erie Rd	1949	Non-Lead	Unknown

1950 – 1986

Location	Built Date	Material on Public Side	Material on Private Side
13988 Pamlico Rd	1975	Unknown	Unknown
15202 Riverside Dr	1980	Non-Lead	Unknown
14363 Iroquois Rd	1956	Non-Lead	Unknown
13460 Rancherias Rd	1965	Non-Lead	Unknown
20766 Sholic Rd	1959	Non-Lead	Unknown
20966 Rancherias Rd (Av61029609)	1961	Non-Lead	Unknown
14205 Havasu Rd	1978	Non-Lead	Unknown
19063 Siesta Dr	1980	Non-Lead	Unknown
14658 Mandan Rd	1959	Non-Lead	Unknown
15620 Comanche Rd	1984	Non-Lead	Unknown
21990 Ramona Ave	1955	Non-Lead	Unknown
15433 Idaho Ln	1979	Non-Lead	Unknown

13119 Tawya Rd	1977	Non-Lead	Unknown
19980 Chickasaw Rd	1979	Non-Lead	Unknown
21310 Pine Ridge Ave	1985	Non-Lead	Unknown
13136 Navajo Rd	1984	Non-Lead	Unknown
14098 Quinnault Rd	1981	Non-Lead	Unknown
15445 Apache Rd	1977	Non-Lead	Unknown
12987 Quapaw Rd	1981	Non-Lead	Unknown
20706 Tonawanda Rd	1976	Non-Lead	Unknown
21045 Chama Rd	1980	Non-Lead	Unknown
21038 Sitting Bull Rd	1976	Non-Lead	Unknown
13522 Quinnault Rd	1978	Non-Lead	Unknown
22158 Ramona Ave	1981	Non-Lead	Unknown
12671 Tesuque Rd	1975	Non-Lead	Unknown
11082 Moki Rd	1984	Non-Lead	Unknown
21230 Multnomah Rd	1983	Non-Lead	Unknown
15455 Wichita Rd	1985	Non-Lead	Unknown
20420 Ottawa Rd	1981	Non-Lead	Unknown
11943 Puye Rd	1984	Non-Lead	Unknown
21140 Matawan Rd	1973	Non-Lead	Unknown
15461 Straight Arrow Rd	1980	Non-Lead	Unknown
15560 Washoan Rd	1984	Non-Lead	Unknown
15658 Kasota Rd	1978	Non-Lead	Unknown
21841 Hurons Ave	1957	Non-Lead	Unknown
13407 Iroquois Rd	1955	Non-Lead	Unknown
14650 Choco Ln	1984	Non-Lead	Unknown
15440 Dale Evans Pkwy	1979	Non-Lead	Unknown
13515 Iroquois Rd	1982	Non-Lead	Unknown
20939 Little Beaver Rd	1980	Unknown	Unknown
13366 Jicarilla Rd	1981	Non-Lead	Unknown
21495 Us Highway 18	1983	Non-Lead	Unknown
19220 Tecumseh Rd	1979	Non-Lead	Unknown
14120 Seminole Rd	1984	Non-Lead	Unknown
12733 Snapping Turtle Rd	1985	Non-Lead	Unknown
15019 Tacony Rd	1957	Non-Lead	Unknown
16485 Wintun Rd	1984	Unknown	Unknown
14980 Ramona Rd	1980	Non-Lead	Unknown
13409 Mohawk Rd	1965	Non-Lead	Unknown
14653 Havasu Ln	1985	Non-Lead	Unknown
14820 Genesee Rd	1976	Non-Lead	Unknown
21043 Malibu Rd	1982	Non-Lead	Unknown
19793 Carlisle Rd	1979	Non-Lead	Unknown
22051 Us Highway 18	1969	Non-Lead	Unknown
14099 Pamlico Rd	1973	Non-Lead	Unknown

1950 – 1986 (Continued)

Location	Built Date	Material on Public Side	Material on Private Side
13974 Valley Dr	1951	Non-Lead	Unknown
21769 Ramona Ave	1956	Non-Lead	Unknown
14307 Flathead Rd	1976	Non-Lead	Unknown
20788 Thunderbird Rd (09047493)	1973	Non-Lead	Unknown
13954 Tawya Rd	1982	Non-Lead	Unknown
16275 Chippewa Rd	1973	Non-Lead	Unknown
19290 Tonkawan Rd	1984	Non-Lead	Unknown
19129 San Jacinto Way	1985	Non-Lead	Unknown
14288 Cronese Rd	1985	Non-Lead	Unknown
18312 Cocopah Rd	1969	Non-Lead	Unknown
21828 Hurons Ave	1985	Non-Lead	Unknown
15967 Wichita Rd	1979	Non-Lead	Unknown
19048 Allegheny Rd	1964	Non-Lead	Unknown
21984 Hurons Ave	1954	Non-Lead	Unknown
11063 Semmering Ct	1966	Non-Lead	Unknown
21781 Waalew Rd	1985	Non-Lead	Unknown
14334 Pioneer Rd (Av043605644)	1980	Non-Lead	Unknown
18576 Cocqui Rd	1983	Non-Lead	Unknown
21130 Cowichan Rd	1985	Non-Lead	Unknown
16220 Nosoni Ct	1983	Non-Lead	Unknown
17979 Quantico Rd	1985	Unknown	Unknown
13237 Mohawk Rd	1973	Non-Lead	Unknown
11885 Jamacha Rd	1978	Non-Lead	Unknown
19725 Rincon Rd	1972	Non-Lead	Unknown
20155 Oneida Rd	1983	Non-Lead	Unknown
14705 Keota Rd	1975	Non-Lead	Unknown
14191 Tehachapi Rd	1965	Non-Lead	Unknown
14922 Riverside Dr	1984	Non-Lead	Unknown
12718 Sholic Rd	1983	Non-Lead	Unknown
20930 Wren St	1980	Non-Lead	Unknown
13764 Kiowa Rd	1950	Non-Lead	Unknown
14080 Quinnault Rd	1983	Non-Lead	Unknown
14681 Tonikan Rd	1966	Non-Lead	Unknown
16345 Tao Rd	1983	Non-Lead	Unknown
18564 Cocqui Rd	1976	Non-Lead	Unknown
22005 Mohican Ave	1985	Non-Lead	Unknown
16039 Ute Rd	1982	Non-Lead	Unknown

1950 – 1986 (Continued)

Location	Built Date	Material on Public Side	Material on Private Side
16514 Pawnee Rd	1985	Non-Lead	Unknown
21125 Us Highway 18	1981	Unknown	Unknown
13117 Mohawk Rd	1979	Non-Lead	Unknown
14680 Choco Rd	1985	Non-Lead	Unknown
14674 Erie Rd	1980	Non-Lead	Unknown
14770 Quinnault Rd	1963	Non-Lead	Unknown
13892 Pioneer Rd (Av06861786)	1970	Non-Lead	Unknown
20172 Chickasaw Rd	1978	Non-Lead	Unknown
14690 Kokomo Rd	1974	Non-Lead	Unknown
21186 Sitting Bull Rd	1974	Non-Lead	Unknown
13077 Navajo Rd A (Av11768801)	1983	Non-Lead	Unknown
15980 Mandan Rd	1956	Non-Lead	Unknown
16033 Monache Rd	1979	Non-Lead	Unknown
19085 Kaibab Rd	1985	Non-Lead	Unknown
14354 Crow Rd	1985	Non-Lead	Unknown
16078 Rancherias Rd	1980	Non-Lead	Unknown
19367 Seneca Rd	1968	Non-Lead	Unknown
13850 Seminole Rd	1967	Non-Lead	Unknown
13485 Anoka Rd	1978	Non-Lead	Unknown
21903 Hurons Ave	1972	Non-Lead	Unknown
13939 Jicarilla Rd	1954	Non-Lead	Unknown
14966 Mandan Rd	1979	Non-Lead	Unknown
12579 Kewanna Rd	1956	Non-Lead	Unknown
19923 Serrano Rd	1985	Non-Lead	Unknown
15651 Mondamon Rd	1984	Non-Lead	Unknown
14660 Apple Valley Rd	1979	Non-Lead	Unknown
14760 Hopi Rd	1968	Unknown	Unknown
20485 Shoshonee Rd	1985	Non-Lead	Unknown
19472 Kinai Rd	1969	Non-Lead	Unknown
14386 Bochee Rd	1981	Unknown	Unknown
13878 Apple Valley Rd	1951	Non-Lead	Unknown
22153 Ramona Ave	1980	Non-Lead	Unknown
12690 Kewanna Rd	1981	Non-Lead	Unknown
11476 Cibola Rd	1980	Non-Lead	Unknown
21255 Minnetonka Rd	1960	Unknown	Unknown
13441 Lakota Rd	1977	Non-Lead	Unknown
14672 Riverside Dr	1980	Non-Lead	Unknown

1950 – 1986 (Continued)

Location	Built Date	Material on Public Side	Material on Private Side
19998 Waco Rd	1978	Unknown	Unknown
12451 Snapping Turtle Rd	1985	Non-Lead	Unknown
19725 Corwin Rd	1966	Unknown	Non-Lead
11941 Mohawk Rd	1982	Non-Lead	Unknown
20198 Yucca Loma Rd	1984	Non-Lead	Unknown
18610 Mingo Rd	1983	Unknown	Unknown
11990 Running Deer Rd	1980	Non-Lead	Unknown
11925 Omak Rd	1985	Non-Lead	Unknown
11960 Pecos Rd	1982	Non-Lead	Unknown
20530 Shoshonee Rd	1981	Non-Lead	Unknown
16303 Nosoni Rd	1984	Non-Lead	Unknown
14145 Lakota Rd	1964	Non-Lead	Unknown
20755 Sitting Bull Rd	1979	Non-Lead	Unknown
13040 Ojai Rd	1985	Non-Lead	Unknown
12438 Snapping Turtle Rd	1984	Non-Lead	Unknown
13416 Tutelo Rd	1970	Non-Lead	Unknown
14181 Navajo Rd	1956	Non-Lead	Unknown
17910 Quantico Rd Apt 6	1980	Non-Lead	Unknown
15774 Wyandot Rd	1957	Non-Lead	Unknown
20365 Broken Bow Rd (Av11007770)	1950	Non-Lead	Unknown
21461 Us Highway 18	1953	Non-Lead	Unknown
21280 Pine Ridge Ave	1964	Non-Lead	Unknown
22030 Hurons Ave	1954	Non-Lead	Unknown
20843 Waalew Rd Unit C50	1977	Non-Lead	Unknown
12579 Pocono Rd (Av19278914)	1979	Non-Lead	Unknown
14565 Mandan Ln	1979	Non-Lead	Unknown
20316 Seneca Rd	1958	Non-Lead	Unknown
13009 Clallam Rd	1981	Non-Lead	Unknown
19500 Tomahawk Rd	1963	Non-Lead	Unknown
21350 Us Highway 18	1952	Non-Lead	Unknown
20072 Us Highway 18	1978	Non-Lead	Unknown
19935 Chickasaw Rd	1981	Non-Lead	Unknown
14171 Tehachapi Rd	1971	Non-Lead	Unknown
13063 Quapaw Rd	1978	Non-Lead	Unknown
20843 Waalew Rd Spc 176	1974	Non-Lead	Unknown
15103 Kinai Rd	1962	Non-Lead	Unknown
21329 Rancherias Rd	1979	Non-Lead	Unknown

1950 – 1986 (Continued)

Location	Built Date	Material on Public Side	Material on Private Side
21857 Hurons Ave	1967	Non-Lead	Unknown
15686 Tuscola Rd	1972	Non-Lead	Unknown
14117 Pamlico Rd	1985	Non-Lead	Unknown
14636 Choco Ln	1964	Non-Lead	Unknown
15051 Tacony Rd	1979	Non-Lead	Unknown
14356 Quinnault Rd	1954	Non-Lead	Unknown
14202 Crow Rd	1977	Non-Lead	Unknown
14150 Apple Valley Rd	1978	Non-Lead	Unknown
14622 Tigertail Rd	1981	Non-Lead	Unknown
15130 Flathead Rd	1979	Non-Lead	Unknown
13640 Kiowa Rd	1959	Non-Lead	Unknown
19547 Kona Rd	1978	Non-Lead	Unknown
13477 Rancherias Rd	1957	Non-Lead	Unknown
14964 Gayhead Rd	1961	Non-Lead	Unknown
11803 Pecos Rd	1981	Non-Lead	Unknown
15643 Kasota Ln	1978	Non-Lead	Unknown
21357 Nisqually Rd (Av61026540)	1983	Non-Lead	Unknown
11426 Kiowa Rd (Av30001382)	1953	Unknown	Unknown
14416 Osage Rd	1958	Non-Lead	Unknown
20843 Waalew Rd Spc 64	1977	Non-Lead	Unknown
19994 Rimrock Rd	1974	Unknown	Unknown
20961 Caddo Rd	1972	Non-Lead	Unknown
21250 Del Oro Rd	1983	Non-Lead	Unknown
12668 Iroquois Rd	1959	Non-Lead	Unknown
14390 Iroquois Rd	1973	Non-Lead	Unknown
14180 Erie Rd	1979	Non-Lead	Unknown
11975 Omak Rd	1981	Non-Lead	Unknown
14110 Lakota Rd	1958	Non-Lead	Unknown
13870 Iroquois Rd	1974	Non-Lead	Unknown
21787 Mescalero Rd	1985	Non-Lead	Unknown
14528 Jalan Ave	1979	Non-Lead	Unknown
13655 Yakima Rd	1963	Unknown	Unknown
16587 Tenaja Rd	1958	Non-Lead	Unknown
13149 Skiomah Rd	1954	Non-Lead	Unknown
12737 Kewanna Rd	1985	Non-Lead	Unknown
20809 Pine Ridge Ave	1974	Non-Lead	Unknown
14051 Hopi Rd	1977	Non-Lead	Unknown

1950 – 1986 (Continued)

Location	Built Date	Material on Public Side	Material on Private Side
19866 Ottawa Rd	1959	Non-Lead	Unknown
14415 Erie Rd	1951	Non-Lead	Unknown
12620 Kiowa Rd (Av61029723)	1979	Non-Lead	Unknown
21405 Minodoka Rd	1984	Non-Lead	Unknown
18771 Mingo Rd	1983	Non-Lead	Unknown
11910 Pecos Rd	1985	Non-Lead	Unknown
22194 Tajanta Rd	1985	Non-Lead	Unknown
21925 Dotame Ave	1972	Non-Lead	Unknown
15448 Apple Valley Rd	1981	Non-Lead	Unknown
15826 Sago Rd	1978	Non-Lead	Unknown
13141 Iroquois Rd	1983	Unknown	Unknown
20175 Ituma Rd	1977	Unknown	Unknown
20832 Rancherias Rd	1976	Non-Lead	Unknown
18368 Cocopah Rd	1981	Non-Lead	Unknown
20112 Oneida Rd	1980	Non-Lead	Unknown
21195 Sitkan Rd	1984	Non-Lead	Unknown
21078 Wren St	1984	Non-Lead	Unknown
12630 Tamiani Rd	1976	Non-Lead	Unknown
12630 Navajo Rd	1985	Non-Lead	Unknown
13866 Olathe Rd	1980	Non-Lead	Unknown
15524 Tonekai Rd	1970	Unknown	Unknown
12566 Iroquois Rd	1977	Non-Lead	Unknown
21292 Thunderbird Rd	1980	Non-Lead	Unknown
20811 Eyota Rd	1979	Non-Lead	Unknown
15991 Ute Rd	1985	Non-Lead	Unknown
21979 Standing Rock Rd	1968	Non-Lead	Unknown
16011 Palmero Rd	1963	Non-Lead	Unknown
13372 Mohawk Rd	1965	Non-Lead	Unknown
12555 Sholic Rd	1984	Non-Lead	Unknown
14186 Cuyamaca Rd	1980	Non-Lead	Unknown
11895 Chimayo Rd	1979	Non-Lead	Unknown
20247 Carlisle Rd	1985	Non-Lead	Unknown
20680 Nisqually Rd	1954	Non-Lead	Unknown
13183 Algonquin Rd	1955	Non-Lead	Unknown
13497 Shawnee Rd	1984	Non-Lead	Unknown
21485 Bear Valley Rd	1985	Non-Lead	Unknown
12716 Tesuque Rd	1975	Non-Lead	Unknown
14942 Riverside Dr	1984	Non-Lead	Unknown

1950 – 1986 (Continued)

Location	Built Date	Material on Public Side	Material on Private Side
20157 Sahale Rd	1978	Non-Lead	Unknown
14166 Apple Valley Rd	1979	Unknown	Unknown
14559 Quivero Rd	1964	Non-Lead	Unknown
21076 Multnomah Rd	1985	Non-Lead	Unknown
13060 Kiowa Rd	1976	Non-Lead	Unknown
11845 Pasco Rd	1985	Non-Lead	Unknown
21858 Ojai Rd	1958	Non-Lead	Unknown
15875 Wichita Rd	1984	Non-Lead	Unknown
11891 Wapato Rd	1978	Non-Lead	Unknown
15135 Flathead Rd	1979	Non-Lead	Unknown
21046 Lone Eagle Rd	1975	Non-Lead	Unknown
21950 Jalan Ave	1968	Non-Lead	Unknown
22015 Cherokee Ave	1979	Non-Lead	Unknown
13111 Topsanna Rd	1954	Non-Lead	Unknown
14199 Havasu Rd	1980	Non-Lead	Unknown
14715 Kokomo Rd	1980	Non-Lead	Unknown
16426 Rimrock Rd	1968	Non-Lead	Unknown
12292 Lipian Rd	1985	Non-Lead	Unknown
11980 Jamacha Rd	1980	Non-Lead	Unknown
20683 Waalew Rd Spc 217	1979	Non-Lead	Unknown
13446 Anoka Rd	1980	Non-Lead	Unknown
15847 Acoma Rd	1957	Non-Lead	Unknown
11968 Chimayo Rd	1985	Non-Lead	Unknown
12324 Kiowa Rd	1984	Non-Lead	Unknown
13012 Iroquois Rd	1966	Non-Lead	Unknown
16515 Arcata Rd	1957	Non-Lead	Unknown
20818 Pahute Rd	1976	Non-Lead	Unknown
19230 Tonkawan Rd	1979	Non-Lead	Unknown
20314 Ituma Rd	1983	Non-Lead	Unknown
19161 Haida Rd	1979	Non-Lead	Unknown
20933 Sioux Rd L	1983	Non-Lead	Unknown
14363 Cronese Rd	1963	Non-Lead	Unknown
18173 Hiawatha Rd	1980	Non-Lead	Unknown
18849 Corwin Rd	1952	Non-Lead	Unknown
21310 Sandia Rd	1982	Non-Lead	Unknown
14890 Mandan Rd	1958	Non-Lead	Unknown
19956 Itasca Rd	1973	Non-Lead	Unknown
18507 Cocqui Rd	1963	Unknown	Unknown
21150 Matawan Rd	1974	Non-Lead	Unknown

1950 – 1986 (Continued)

Location	Built Date	Material on Public Side	Material on Private Side
19005 Shoshonee Rd	1984	Non-Lead	Unknown
21089 Multnomah Rd	1976	Non-Lead	Unknown
13130 Olathe Rd	1977	Non-Lead	Unknown
21531 Bear Valley Rd	1983	Non-Lead	Unknown
11865 Pecos Rd	1983	Non-Lead	Unknown
20062 Red Feather Rd	1974	Non-Lead	Unknown
21038 Geronimo Rd	1972	Non-Lead	Unknown
13491 Iroquois Rd	1956	Non-Lead	Unknown
22393 Ramona Ave	1985	Non-Lead	Unknown
13894 Kiowa Rd	1977	Non-Lead	Unknown
13190 Olathe Rd	1983	Non-Lead	Unknown
14149 Quinnault Rd	1981	Non-Lead	Unknown
15621 Wichita Rd	1980	Non-Lead	Unknown
11935 Omak Rd	1985	Non-Lead	Unknown
19630 Tomahawk Rd	1982	Non-Lead	Unknown
11016 Mohawk Rd	1978	Non-Lead	Unknown
15374 Comanche Rd	1980	Non-Lead	Unknown
15296 Mandan Rd	1979	Non-Lead	Unknown
15783 Catawba Rd	1982	Non-Lead	Unknown
12975 Chief Joseph Rd	1958	Non-Lead	Unknown
12951 Nyack Rd	1979	Non-Lead	Unknown
14563 Gayhead Rd	1950	Non-Lead	Unknown
13062 Pawnee Rd	1983	Non-Lead	Unknown
11440 Cibola Rd	1985	Non-Lead	Unknown
14180 Pamlico Rd	1977	Non-Lead	Unknown
14270 Santee Rd	1955	Non-Lead	Unknown
12819 Running Deer Rd	1985	Non-Lead	Unknown
13968 Crow Rd	1984	Non-Lead	Unknown
15153 Quinnault Rd	1980	Unknown	Unknown
19864 Rimrock Rd	1958	Non-Lead	Unknown
20228 Otoe Rd (Av11385427)	1964	Non-Lead	Unknown
21025 Chama Rd	1985	Non-Lead	Unknown
13831 Delaware Rd	1978	Non-Lead	Unknown
21866 Dotame Ave	1953	Unknown	Unknown
19160 Hudson Rd	1984	Non-Lead	Unknown
21611 Sitting Bull Rd	1976	Non-Lead	Unknown
19530 Shoshonee Rd	1968	Non-Lead	Unknown
16030 Winnebago Rd	1985	Non-Lead	Unknown

1950 – 1986 (Continued)

Location	Built Date	Material on Public Side	Material on Private Side
15023 Genesee Rd	1959	Non-Lead	Unknown
15731 Washoan Rd	1982	Non-Lead	Unknown
20189 Serrano Rd	1985	Non-Lead	Unknown
12765 Pocomoke Rd	1984	Non-Lead	Unknown
15497 Wanaque Rd	1953	Unknown	Unknown
14176 Coachella Rd	1978	Non-Lead	Unknown
12645 Pocomoke Rd	1983	Unknown	Unknown
18949 Haida Rd	1980	Non-Lead	Unknown
21037 Del Oro Rd	1981	Non-Lead	Unknown
15475 Rancherias Rd	1984	Non-Lead	Unknown
13430 Rancherias Rd	1965	Non-Lead	Unknown
15510 Tonekai Rd	1958	Unknown	Unknown
19195 Kinai Rd	1976	Non-Lead	Unknown
19977 Chickasaw Rd	1976	Non-Lead	Unknown
12641 Running Deer Rd	1980	Unknown	Unknown
12221 Sholic Rd	1985	Unknown	Unknown
18302 Cocopah Rd	1957	Non-Lead	Unknown
20435 Shawnee Rd	1979	Non-Lead	Unknown
20660 Yucca Loma Rd	1969	Unknown	Unknown
21522 Pine Ridge Ave	1974	Non-Lead	Unknown
15025 Ramona Rd	1984	Non-Lead	Unknown
14334 Pioneer Rd (Av08000453)	1980	Non-Lead	Unknown
20843 Waalew Rd Spc 41	1978	Non-Lead	Unknown
14038 Choco Rd	1975	Non-Lead	Unknown
15074 Yaqui Rd	1964	Non-Lead	Unknown
14334 Bochee Rd	1978	Non-Lead	Unknown
21975 Mohican Ave	1963	Non-Lead	Unknown
21271 Thunderbird Rd	1972	Non-Lead	Unknown
14277 Bochee Rd	1978	Non-Lead	Unknown
12630 Pocomoke Rd	1979	Non-Lead	Unknown
15191 Dakota Rd	1980	Non-Lead	Unknown
13172 Yakima Rd	1973	Non-Lead	Unknown
19459 Shasta Rd	1971	Unknown	Unknown
20933 Sioux Rd 4	1983	Non-Lead	Unknown
13975 Rincon Rd	1980	Non-Lead	Unknown
21213 Pahute Rd	1984	Non-Lead	Unknown
13460 Anoka Rd	1979	Non-Lead	Unknown
12762 Pocono Rd	1957	Non-Lead	Unknown

1950 – 1986 (Continued)

Location	Built Date	Material on Public Side	Material on Private Side
14728 Quivero Rd	1965	Non-Lead	Unknown
21181 Neola Rd	1980	Non-Lead	Unknown
14025 Jicarilla Rd	1965	Non-Lead	Unknown
11191 Kiowa Rd	1978	Non-Lead	Unknown
14777 Erie Rd	1968	Non-Lead	Unknown
20965 Geronimo Rd (Av30030662)	1979	Non-Lead	Unknown
13869 Cree Rd	1980	Non-Lead	Unknown
12507 Waynoka Rd	1982	Non-Lead	Unknown
19972 Haida Rd	1983	Non-Lead	Unknown
14390 Navajo Rd	1979	Non-Lead	Unknown
12160 Algonquin Rd	1984	Non-Lead	Unknown
12768 Tesuque Rd	1984	Non-Lead	Unknown
13936 Tawya Rd	1978	Non-Lead	Unknown
16260 Kamana Rd	1985	Non-Lead	Unknown
13981 Pawnee Rd	1958	Non-Lead	Unknown
14615 Havasu Rd	1983	Non-Lead	Unknown
20472 Rimrock Rd (Av11006933)	1980	Non-Lead	Unknown
13434 Seminole Rd	1979	Non-Lead	Unknown
15927 Sago Rd	1980	Non-Lead	Unknown
13275 Topsanna Rd	1985	Non-Lead	Unknown
19200 Tehachapi Rd	1981	Non-Lead	Unknown
20152 Chickasaw Rd	1956	Non-Lead	Unknown
14960 Choco Rd	1973	Unknown	Unknown
16037 Tao Rd	1955	Non-Lead	Unknown
15045 Riverside Way	1975	Non-Lead	Unknown
21110 Neola Rd	1984	Non-Lead	Unknown
19265 Powhatan Rd	1983	Unknown	Unknown
20782 Powhatan Rd	1983	Non-Lead	Unknown
14695 Riverside Dr	1981	Non-Lead	Unknown
16381 Rimrock Rd	1960	Non-Lead	Unknown
22256 Klickitat Ave	1981	Non-Lead	Unknown
15435 Tonekai Rd	1982	Non-Lead	Unknown
12381 Red Wing Rd	1984	Non-Lead	Unknown
13475 Algonquin Rd	1976	Non-Lead	Unknown
13471 Quapaw Rd	1979	Non-Lead	Unknown
11531 Saratoga Rd	1984	Non-Lead	Unknown
19580 Yanan Rd	1985	Non-Lead	Unknown

1950 – 1986 (Continued)

Location	Built Date	Material on Public Side	Material on Private Side
14176 Quinnault Rd	1978	Non-Lead	Unknown
18590 Symeron Rd	1984	Non-Lead	Unknown
21760 Ramona Ave	1958	Non-Lead	Unknown
15491 Rancherias Rd	1985	Non-Lead	Unknown
20467 Yucca Loma Rd	1977	Non-Lead	Unknown
21241 Waalew Rd	1956	Non-Lead	Unknown
13164 Kiowa Rd	1963	Non-Lead	Unknown
11739 Pasco Rd	1981	Non-Lead	Unknown
12565 Clallam Rd	1982	Unknown	Non-Lead
18735 Seneca Rd	1958	Non-Lead	Unknown
15362 Ute Rd	1984	Unknown	Unknown
16447 Chippewa Rd	1985	Non-Lead	Unknown
14628 Osage Rd	1966	Non-Lead	Unknown
16161 Saint Timothy Rd	1983	Non-Lead	Unknown
14403 Quinnault Rd	1977	Unknown	Unknown
22139 Gayhead Rd	1980	Unknown	Non-Lead
11816 Cibola Rd	1982	Non-Lead	Unknown
11544 Cibola Rd	1984	Non-Lead	Unknown
14181 Haida Ct	1977	Non-Lead	Unknown
20275 Shoshonee Rd	1979	Non-Lead	Unknown
15717 Kasota Rd	1971	Non-Lead	Unknown
21930 Us Highway 18	1979	Non-Lead	Unknown
15379 Tonekai Rd A	1983	Non-Lead	Unknown
15462 Blackfoot Rd	1982	Non-Lead	Unknown
19220 Haida Rd	1979	Non-Lead	Unknown
21460 Thunderbird Rd	1980	Non-Lead	Unknown
20765 Rancherias Rd	1952	Non-Lead	Unknown
14002 Rincon Rd	1980	Non-Lead	Unknown
12562 Sarsi Ct	1980	Non-Lead	Unknown
12835 Pocono Rd	1980	Non-Lead	Unknown
14606 Tigertail Rd	1956	Non-Lead	Unknown
19403 Oneida Rd	1983	Non-Lead	Unknown
21397 Pine Ridge Ave	1953	Non-Lead	Unknown
15436 Kasota Rd	1978	Non-Lead	Unknown
15090 Waseca Ln	1966	Non-Lead	Unknown
16097 Tude Rd	1984	Non-Lead	Unknown
12829 Standing Bear Rd	1980	Non-Lead	Unknown
12841 Pocomoke Rd	1979	Non-Lead	Unknown
21834 Mohican Ave	1980	Non-Lead	Unknown

1950 – 1986 (Continued)

Location	Built Date	Material on Public Side	Material on Private Side
15118 Tacony Rd	1978	Non-Lead	Unknown
15895 Mandan Rd	1980	Non-Lead	Unknown
13996 Wawona Rd	1984	Non-Lead	Unknown
11015 Neola Rd	1978	Non-Lead	Unknown
15716 Wichita Rd	1984	Non-Lead	Unknown
14528 Nanticoke Rd	1980	Non-Lead	Unknown
12824 Running Deer Rd	1979	Non-Lead	Unknown
20710 Rancherias Rd	1985	Non-Lead	Unknown
13145 Waco Rd	1975	Non-Lead	Unknown
15010 Dakota Rd	1974	Non-Lead	Unknown
20911 Rancherias Rd	1968	Non-Lead	Unknown
12190 Tesuque Rd	1976	Unknown	Unknown
13239 Yakima Rd	1962	Non-Lead	Unknown
19101 Haida Rd	1978	Non-Lead	Unknown
14750 Pamlico Rd	1980	Non-Lead	Unknown
11370 Pagosi Rd	1982	Non-Lead	Unknown
18365 Chapae Ln	1955	Non-Lead	Unknown
21199 Sitkan Rd	1980	Non-Lead	Unknown
14255 Havasu Rd	1984	Non-Lead	Unknown
15027 Riverside Dr	1984	Non-Lead	Unknown
20945 Rancherias Rd	1979	Non-Lead	Unknown
22195 Tajanta Ct	1985	Non-Lead	Unknown
14154 Osage Rd	1954	Non-Lead	Unknown
14750 Tigertail Rd	1956	Non-Lead	Unknown
13361 Yakima Rd	1970	Non-Lead	Unknown
13807 Cronese Way	1985	Non-Lead	Unknown
13758 Apple Valley Rd	1981	Non-Lead	Unknown
11033 Moki Rd	1985	Non-Lead	Unknown
12226 Tesuque Rd	1977	Unknown	Unknown
18337 Symeron Rd	1984	Non-Lead	Unknown
21140 Neola Rd	1985	Non-Lead	Unknown
20938 Taos Rd	1953	Non-Lead	Unknown
14034 Apple Valley Rd	1980	Non-Lead	Unknown
13920 Hopi Rd	1985	Non-Lead	Unknown
20777 Kachina Rd	1982	Non-Lead	Unknown
11080 Moki Rd	1984	Non-Lead	Unknown
23921 Tahquitz Rd	1962	Unknown	Unknown
19400 Seneca Rd	1973	Non-Lead	Unknown
12850 Iroquois Rd	1981	Non-Lead	Unknown

1950 – 1986 (Continued)

Location	Built Date	Material on Public Side	Material on Private Side
14081 Osage Rd	1971	Non-Lead	Unknown
13848 Kiowa Rd	1953	Non-Lead	Unknown
20115 Shoshonee Rd	1976	Non-Lead	Unknown
21641 Nisqually Rd	1985	Non-Lead	Unknown
14470 Mandan Rd	1985	Non-Lead	Unknown
21360 Klamath Rd	1984	Non-Lead	Unknown
20956 Lone Eagle Rd	1953	Non-Lead	Unknown
12250 Kenora Rd	1984	Non-Lead	Unknown
14815 Riverside Dr	1976	Non-Lead	Unknown
15180 Mandan Rd	1985	Unknown	Unknown
13445 Rancherias Rd	1963	Non-Lead	Unknown
13325 Yakima Rd	1962	Non-Lead	Unknown
18315 Symeron Rd	1955	Non-Lead	Unknown
21270 Lone Eagle Rd	1980	Unknown	Unknown
15889 Wyandot Rd	1984	Non-Lead	Unknown
14285 Cronese Rd	1982	Non-Lead	Unknown
15903 Washoan Rd	1981	Non-Lead	Unknown
21091 Sandia Rd	1985	Non-Lead	Unknown
14564 Tonikan Rd	1981	Non-Lead	Unknown
20130 Rimrock Rd	1976	Non-Lead	Unknown
11839 Jamacha Rd	1964	Non-Lead	Unknown
20847 Pine Ridge Ave	1965	Non-Lead	Unknown
20750 Tonawanda Rd	1977	Non-Lead	Unknown
21370 Thunderbird Rd	1967	Non-Lead	Unknown
12365 Waynoka Rd	1985	Non-Lead	Unknown
15155 Osceola Rd	1973	Unknown	Unknown
14130 Iroquois Rd	1953	Non-Lead	Unknown
20216 Nowata Rd	1980	Non-Lead	Unknown
16576 Osage Rd	1985	Non-Lead	Unknown
14024 Chogan Rd	1985	Non-Lead	Unknown
12598 Running Deer Rd	1976	Non-Lead	Unknown
14725 Kinai Rd	1975	Non-Lead	Unknown
22685 Itasca Rd	1985	Non-Lead	Unknown
15020 Gayhead Rd	1976	Non-Lead	Unknown
13917 Choco Rd	1974	Non-Lead	Unknown
13361 Navajo Rd	1985	Unknown	Unknown
18775 Chaco Ln	1983	Non-Lead	Unknown
13089 Mohawk Rd	1979	Non-Lead	Unknown
21181 Rancherias Rd	1965	Non-Lead	Unknown

1950 – 1986 (Continued)

Location	Built Date	Material on Public Side	Material on Private Side
14855 Flathead Rd	1981	Non-Lead	Unknown
15615 Apache Rd	1978	Non-Lead	Unknown
11430 Otowi Rd	1984	Non-Lead	Unknown
15330 Tacony Rd	1981	Non-Lead	Unknown
14570 Havasu Rd	1985	Non-Lead	Unknown
11502 Pagosi Rd	1983	Non-Lead	Unknown
21907 Standing Rock Ave	1984	Non-Lead	Unknown
19946 Serrano Rd	1955	Non-Lead	Unknown
19481 Shasta Rd	1974	Non-Lead	Unknown
14154 Hopi Rd	1984	Non-Lead	Unknown
12880 Pawnee Rd	1982	Non-Lead	Unknown
20515 Geronimo Rd	1980	Non-Lead	Unknown
12991 Kiowa Rd	1979	Unknown	Unknown
21123 Klamath Rd	1961	Non-Lead	Unknown
14985 Mandan Rd	1976	Non-Lead	Unknown
18368 Owatonna Rd	1955	Non-Lead	Unknown
19789 Us Highway 18	1956	Non-Lead	Unknown
14280 Kiowa Rd	1980	Non-Lead	Unknown
20683 Waalew Rd Spc 210	1983	Non-Lead	Unknown
21065 Little Beaver Rd	1984	Non-Lead	Unknown
14203 Crow Rd	1977	Non-Lead	Unknown
13016 Ojai Rd	1965	Non-Lead	Unknown
15901 Venango Rd	1976	Non-Lead	Unknown
20164 Rancherias Rd	1955	Unknown	Non-Lead
14638 Tigertail Rd	1981	Non-Lead	Unknown
14024 Delaware Rd	1985	Non-Lead	Unknown
14642 Tonikan Rd	1985	Non-Lead	Unknown
21915 Goshute Ave	1959	Non-Lead	Unknown
14741 Apple Valley Rd	1959	Non-Lead	Unknown
11636 Pagosi Ct	1985	Non-Lead	Unknown
15534 Tonekai Rd	1970	Unknown	Unknown
21983 Isatis Ave	1954	Non-Lead	Unknown
14150 Yuma Ct	1972	Non-Lead	Unknown
20621 Sholic Rd	1984	Non-Lead	Unknown
13356 Iroquois Rd	1979	Unknown	Non-Lead

Appendix B: LSL Field Investigation Sheet – Single Site

LCRR Field Investigation Template

Date of Inspection: _____

Customer Name: _____

Address/Location of Service Line: _____

Meter Number: _____

Description of Meter and/or Location: _____

Material for Public Service Line

- Lead
- Non-Lead Non-Lead
- Galvanized
- Non-Lead Copper
- Non-Lead Plastic
- Non-Lead – Other

Material for Private Service Line

- Lead
- Galvanized
- Non-Lead Copper
- Non-Lead Plastic
- Non-Lead - Other

Public Side Pipe Diameter

- 5/8 inch ½ inch
- 1 inch ¾ inch
- 1 ½ inch
- 2 inch

Private Side Pipe Diameter

- 5/8 inch ½ inch
- 1 inch ¾ inch
- 1 ½ inch
- 2 inch

Is there a lead connector? (Y) / (N)

Is there a Lead Solder in the Service Line? (Y) / (N)

Describe any other fitting and equipment connected to the service line that contains lead (for example, a backflow preventer or meter containing lead):

Building Type:

- Single Family Home Building
- Multi-Family Home Other: _____

Appendix C: LSL Field Investigation Recordkeeping Spreadsheet.

PWS Name: _____

PWS No. _____

LSL Field Investigation Notes										
Investigation Date	Unique Service Line ID (if any)	Address	City	ZIP Code	Public SL Material Classification (*)	Public SL Material (**)	Private SL Material Classification (*)	Private SL Material (**)	Material Identification Method (***)	Comments

(*) Material classification includes: Non-lead, galvanized requiring replacement, lead, unknown.
 (*) Materials include: Copper, plastic, galvanized, lead, other
 (***) Meter Pit inspection or Statistical