



2010 Lead and Copper Sampling Plan
District of Columbia Water and Sewer Authority
Department of Water Services
Division of Water Quality

Sample Pool and Selection

WASA will collect samples from at least 100 sites listed in the revised sampling pool (Table 1). Sample sites meet Tier 1 criteria under 40 CFR §141.86(a)(3)(ii) as single family structures with either full or partial lead service lines based on WASA's customer and service line inventory.

WASA will schedule sample collection based on the following criteria:

1. Primary sites with full lead service lines.
2. Primary sites with partial lead service lines.
3. Secondary sites with full lead service lines.
4. Secondary sites with partial lead service lines.

Customers who participated in LCR sampling in their previous two sample events are designated as primary sites. Secondary sites represent sites added to the sample pool list since 2006 or sites that have not participated in their past two sampling events. WASA added one site to the Sample Pool and changed the status of another site to maintain geographic distribution among the quadrants—1230 Half St SW added and 8 N St SW priority changed from secondary to primary.

WASA will schedule and distribute samples in the order listed in Table 1. WASA may sample locations out-of-order if the first sample submitted was rejected (refer to Criteria for Sample Acceptance section) and the customer requests a second test. WASA may also sample out-of-order if the customer contacts WASA to collect the sample after the scheduled pick up date. WASA will not leave a sample kit under the following conditions:

- Partial lead service line replacement within 60 days of sample drop-off;
- Tier 1 status is suspect (e.g. possible condo conversion); or
- Construction near the home or the home is undergoing rehabilitation.

WASA will investigate to determine if the site should remain in the sample pool; however, the site will not be sampled until the following compliance period unless requested by the customer.

Sample Collection

WASA will collect samples between January and June 2010 (first monitoring period) and July and December 2010 (second monitoring period). The homeowner will collect first and second draw samples following the instructions in the sample kit and complete the Chain of Custody form (reference Appendix A). The samples will be sent to a

certified laboratory, currently the Washington Aqueduct (WA), to analyze the lead, copper, and iron concentrations using EPA Method 200.8.

Criteria for Sample Acceptance

WASA will forward samples to WA using the following criteria:

1. Bottles:
 - First draw sample bottle is full; and
 - First draw sample bottle is identified.

2. Chain-of-Custody or bottles have the following information:
 - Address on bottles match address on chain of custody;
 - Home is a single dwelling unit (i.e., answered “No” to having multiple dwelling units);
 - Date and time stagnation started;
 - Date and time sample collected;
 - Stagnation time between 6 to 18 hours;
 - No leaks or water use during stagnation; and
 - If the customer has a water treatment unit installed, they must have it bypassed for sampling.

WASA will attempt to obtain any missing information from incomplete chain of custody forms by contacting the customer. WASA will note the customer contact by logging the customer’s name, the date, questions asked, and customer responses. WASA will transfer the missing information onto the chain of custody.

Sample Invalidation

WASA will request invalidation from EPA Region III for samples analyzed by WA laboratory based on 40 CFR §141.86 (f):

- The laboratory establishes that improper analysis caused erroneous results;
- The sample was taken from a site that did not meet Tier 1 criteria;
- The sample container was damaged during transit; or
- There is substantial reason to suspect that the sample was subject to tampering.

Notifying Customers of Results

Under the revised LCR 40 CFR §141.85 (d), WASA will mail sample results to the homeowner along with lead advisory information within 30 days of receiving sample results from the laboratory.

WASA uses three standard letters to distribute lead test results (reference Appendix B). Letter #1 is used for first and second draw results at or below the lead action level. Letter #2 is used for first draw or first and second draw results above the lead action level. Letter #3 is used for homes with first draw results at or below the lead action level with a second draw sample greater than 15 ppb. These letters have been revised to include EPA mandated language as stated under section 141.85 (d).

WASA has never obtained a first or second draw copper sample above the action level since the addition of chloramines. WASA will provide customers with written notification if the copper test results exceed the action level.

Sample Pool Revisions (Table 2 and Table 3)

Sites will be removed from the sample pool under the following conditions:

- Site does not meet Tier 1 criteria (e.g. condo conversion, no lead service line);
- Customer notifies WASA that they do not want to participate;
- Customer cannot provide a valid sample (e.g. water treatment unit cannot be bypassed); or
- For the last four consecutive sampling events of a residence (i.e., sample kit dropped at residence), sample bottles were not returned from the residence.

Prior to the start of the next compliance period, WASA will move secondary sites to the primary group if samples are collected from the site. Primary sites will be moved to the secondary list if they have not participated during their last two consecutive monitoring periods.

WASA will assess the geographic distribution of the primary sites to ensure they are representative of the residential lead service line distribution in the District. WASA will move secondary sites to the primary group or select new sites to improve geographic distribution if the sites are not representative of the lead service line distribution.

Reporting Format

The lead and copper routine monitoring will be submitted in written and electronic format. The report format will comply with 40 CFR §141.90.

Optimal Corrosion Control Treatment Monitoring (OCCT)

WASA will monitor for the OCCT Water Quality Parameters (WQP) twice per calendar year at 10 sites as required by 40 CFR §141.87(e)(2)(i). In order to achieve seasonal variability, DC WASA will monitor one sample set in February representing the winter period and one sample set in August representing the summer period. The parameters monitored will be pH, dissolved orthophosphate, nitrite, and free ammonia. WASA will monitor at the 10 sites listed in Table 4 (no change from 2008 compliance monitoring). WASA will report entry point data collected by the Washington Aqueduct along with the WQP distribution system data by January 10, 2011, which is within 10 days following the end of the OCCT WQP monitoring compliance period.

**Table 1
Sample Pool**

No	Address	Pipe Material	Priority
1	10 S St NW	Lead	Primary
2	1003 Otis St NE	Lead	Primary
3	1003 Quebec PI NW	Lead	Primary
4	1010 10th St NE	Lead	Primary
5	1011 Taylor St NE	Lead	Primary
6	1025 44th St NE	Lead	Primary
7	1106 Allison St NW	Lead	Primary
8	1150 Abbey PI NE	Lead	Primary
9	118 Kentucky Ave SE	Lead	Primary
10	119 16TH ST NE	Lead	Primary
11	1202 Monroe St NW	Lead	Primary
12	1212 E Capitol St NE	Lead	Primary
13	125 Madison St NW	Lead	Primary
14	1262 COLUMBIA RD NW	Lead	Primary
15	1302 Randolph St NW	Lead	Primary
16	1315 FRANKLIN ST NE	Lead	Primary
17	1320 Allison St NE	Lead	Primary
18	1331 Irving St NE	Lead	Primary
19	1339 Ives PI SE	Lead	Primary
20	1339 U St SE	Lead	Primary
21	1346 Madison St NW	Lead	Primary
22	1349 Wallach PI NW	Lead	Primary
23	1357 C St NE	Lead	Primary
24	1370 Taylor St NW	Lead	Primary
25	1400 FLORAL ST NW	Lead	Primary
26	1409 22nd St SE	Lead	Primary
27	1429 Ives PI SE	Lead	Primary
28	143 UHLAND TER NE	Lead	Primary
29	1434 Taylor St NW	Lead	Primary
30	1436 S St NW	Lead	Primary
31	144 Tennessee Ave NE	Lead	Primary
32	1453 S St NW	Lead	Primary
33	15 Milmarson PI NW	Lead	Primary
34	1506 ALLISON ST NW	Lead	Primary
35	1507 Buchanan St NW	Lead	Primary
36	1525 D St NE	Lead	Primary
37	1607 KEARNY ST NE	Lead	Primary

No	Address	Pipe Material	Priority
38	1620 Webster St NW	Lead	Primary
39	1622 G St SE	Lead	Primary
40	1623 Kennedy PI NW	Lead	Primary
41	1623 U St SE	Lead	Primary
42	1628 Argonne PI NW	Lead	Primary
43	1635 WEBSTER ST NW	Lead	Primary
44	1649 HARVARD ST NW	Lead	Primary
45	1703 D St NE	Lead	Primary
46	1705 2nd St NE	Lead	Primary
47	1706 NEW JERSEY AVE NW	Lead	Primary
48	1707 37th St NW	Lead	Primary
49	1811 Lamont St NW	Lead	Primary
50	1825 16th St NW	Lead	Primary
51	1826 Jackson St NE	Lead	Primary
52	2007 37TH ST NW	Lead	Primary
53	2107 2nd St NE	Lead	Primary
54	213 49th St NE	Lead	Primary
55	2138 O St NW	Lead	Primary
56	2212 38th St NW	Lead	Primary
57	226 12th PI NE	Lead	Primary
58	228 V ST NE	Lead	Primary
59	2300 MONROE ST NE	Lead	Primary
60	2435 33RD ST SE	Lead	Primary
61	2521 P St NW	Lead	Primary
62	2724 36TH PL NW	Lead	Primary
63	2830 BRENTWOOD RD NE	Lead	Primary
64	2913 Brandywine St NW	Lead	Primary
65	307 7th St NE	Lead	Primary
66	313 Aspen St NW	Lead	Primary
67	3206 38th St NW	Lead	Primary
68	3211 Central Ave NE	Lead	Primary
69	3215 G St SE	Lead	Primary
70	3216 Klingle Rd NW	Lead	Primary
71	3218 MACOMB ST NW	Lead	Primary
72	3218 MORRISON ST NW	Lead	Primary
73	3232 Klingle Rd NW	Lead	Primary
74	331 RALEIGH ST SE	Lead	Primary
75	331 Upshur St NW	Lead	Primary
76	336 Quackenbos St NE	Lead	Primary
77	3400 Holmead PI NW	Lead	Primary

No	Address	Pipe Material	Priority
78	3427 Oliver St NW	Lead	Primary
79	3431 S Dakota Ave NE	Lead	Primary
80	349 TENNESSEE AVE NE	Lead	Primary
81	3533 W PI NW	Lead	Primary
82	3601 WARREN ST NW	Lead	Primary
83	3612 34th St NW	Lead	Primary
84	3618 PORTER ST NW	Lead	Primary
85	3631 Ordway St NW	Lead	Primary
86	3634 WARDER ST NW	Lead	Primary
87	3706 35th St NW	Lead	Primary
88	3710 Huntington St NW	Lead	Primary
89	3727 T St NW	Lead	Primary
90	3805 Blaine St NE	Lead	Primary
91	3908 13TH ST NW	Lead	Primary
92	3917 8th St NW	Lead	Primary
93	3973 HARRISON ST NW	Lead	Primary
94	409 S Carolina Ave SE	Lead	Primary
95	4105 Fessenden St NW	Lead	Primary
96	4111 INGOMAR ST NW	Lead	Primary
97	4113 Connecticut Ave NW	Lead	Primary
98	4120 Grant St NE	Lead	Primary
99	4131 YUMA ST NW	Lead	Primary
100	416 7th St NE	Lead	Primary
101	4204 New Hampshire Ave NW	Lead	Primary
102	4210 Clay St NE	Lead	Primary
103	4214 8th St NW	Lead	Primary
104	424 Luray PI NW	Lead	Primary
105	4305 38TH ST NW	Lead	Primary
106	4307 CHESAPEAKE ST NW	Lead	Primary
107	4401 5TH ST NW	Lead	Primary
108	4409 Lowell St NW	Lead	Primary
109	4418 14th St NE	Lead	Primary
110	4433 14th St NE	Lead	Primary
111	4507 13TH ST NW	Lead	Primary
112	4518 14TH ST NW	Lead	Primary
113	452 Newton PI NW	Lead	Primary
114	4550 30TH ST NW	Lead	Primary
115	4613 9th St NW	Lead	Primary
116	4627 49th St NW	Lead	Primary
117	4700 Georgia Ave NW	Lead	Primary

No	Address	Pipe Material	Priority
118	4703 Macarthur Blvd NW	Lead	Primary
119	4818 ILLINOIS AVE NW	Lead	Primary
120	4821 Illinois Ave NW	Lead	Primary
121	4926 Glenbrook Rd NW	Lead	Primary
122	519 Rock Crk Church Rd NW	Lead	Primary
123	5318 9TH ST NW	Lead	Primary
124	5817 7th St NW	Lead	Primary
125	608 Gallatin St NW	Lead	Primary
126	610 G St SE	Lead	Primary
127	610 L ST NE	Lead	Primary
128	619 12th St NE	Lead	Primary
129	623 Morton PI NE	Lead	Primary
130	631 Lamont St NW	Lead	Primary
131	636 ROCK CRK CHURCH RD NW	Lead	Primary
132	641 Gallatin St NW	Lead	Primary
133	702 9th St SE	Lead	Primary
134	720 ALABAMA AVE SE	Lead	Primary
135	721 16th St NE	Lead	Primary
136	8 N St SW	Lead	Primary
137	804 Delafield PI NW	Lead	Primary
138	81 O St NW	Lead	Primary
139	810 Savannah St SE	Lead	Primary
140	821 BUCHANAN ST NW	Lead	Primary
141	826 Emerson St NW	Lead	Primary
142	834 Delafield PI NW	Lead	Primary
143	926 Hamilton St NW	Lead	Primary
144	1202 Staples St NE	Partial Lead	Primary
145	1203 Quincy St NW	Partial Lead	Primary
146	1211 Carrollsburg PI SW	Partial Lead	Primary
147	1214 Evarts St NE	Partial Lead	Primary
148	1222 HAMILTON ST NW	Partial Lead	Primary
149	1230 Half St SW	Partial Lead	Primary
150	131 Randolph PI NW	Partial Lead	Primary
151	1319 POTOMAC AVE SE	Partial Lead	Primary
152	1337 Newton St NW	Partial Lead	Primary
153	1353 JEFFERSON ST NW	Partial Lead	Primary
154	1387 N Carolina Ave NE	Partial Lead	Primary
155	1405 21ST ST NW	Partial Lead	Primary
156	1412 N Carolina Ave NE	Partial Lead	Primary
157	1412 S St NW	Partial Lead	Primary

No	Address	Pipe Material	Priority
158	1420 Hamlin St NE	Partial Lead	Primary
159	1424 Perry Pl NW	Partial Lead	Primary
160	1451 S St NW	Partial Lead	Primary
161	1505 Lawrence St NE	Partial Lead	Primary
162	1533 Constitution Ave NE	Partial Lead	Primary
163	1603 Massachusetts Ave SE	Partial Lead	Primary
164	1619 G St SE	Partial Lead	Primary
165	1671 Rosedale St NE	Partial Lead	Primary
166	1714 Massachusetts Ave SE	Partial Lead	Primary
167	1731 L St NE	Partial Lead	Primary
168	1736 Bay St SE	Partial Lead	Primary
169	1802 35TH ST NW	Partial Lead	Primary
170	1808 KEARNEY ST NE	Partial Lead	Primary
171	1812 M St NE	Partial Lead	Primary
172	1825 L St NE	Partial Lead	Primary
173	1863 MONROE ST NW	Partial Lead	Primary
174	202 11th St SE	Partial Lead	Primary
175	2118 14th St SE	Partial Lead	Primary
176	2305 Minnesota Ave SE	Partial Lead	Primary
177	2823 28TH ST NW	Partial Lead	Primary
178	302 RITTENHOUSE ST NW	Partial Lead	Primary
179	3215 McKinley St NW	Partial Lead	Primary
180	3301 BROWN St NW	Partial Lead	Primary
181	3416 9th St NE	Partial Lead	Primary
182	3531 16TH ST NW	Partial Lead	Primary
183	3907 13th St NW	Partial Lead	Primary
184	3913 8TH ST NW	Partial Lead	Primary
185	413 4th St SE	Partial Lead	Primary
186	4327 IOWA AVE NW	Partial Lead	Primary
187	4332 BRANDYWINE ST NW	Partial Lead	Primary
188	4429 3rd St NW	Partial Lead	Primary
189	4818 8th ST NW	Partial Lead	Primary
190	517 4th St SE	Partial Lead	Primary
191	6213 7TH ST NW	Partial Lead	Primary
192	75 P St NW	Partial Lead	Primary
193	10 Everts St NE	Lead	Secondary
194	1014 Douglas St NE	Lead	Secondary
195	104 15th St SE	Lead	Secondary
196	104 17th St SE	Lead	Secondary
197	108 Varnum St NW	Lead	Secondary

No	Address	Pipe Material	Priority
198	1212 28th St NW	Lead	Secondary
199	1317 Otis St NE	Lead	Secondary
200	1334 Randolph St NE	Lead	Secondary
201	1371 Monroe St NW	Lead	Secondary
202	1380 E ST NE	Lead	Secondary
203	1408 Morse St NE	Lead	Secondary
204	1412 Allison St NW	Lead	Secondary
205	1424 S ST NW	Lead	Secondary
206	1427 A St SE	Lead	Secondary
207	1427 Montague St NW	Lead	Secondary
208	1513 Pennsylvania Ave SE	Lead	Secondary
209	1533 Upshur St NW	Lead	Secondary
210	1611 Webster St NW	Lead	Secondary
211	1620 Hamlin St NE	Lead	Secondary
212	1724 1st St NW	Lead	Secondary
213	1801 1st St NW	Lead	Secondary
214	1811 1st St NW	Lead	Secondary
215	2121 15th St NW	Lead	Secondary
216	2132 37th St NW	Lead	Secondary
217	2214 1st St NW	Lead	Secondary
218	2216 1st St NW	Lead	Secondary
219	224 Varnum St NW	Lead	Secondary
220	2300 Woodridge St NE	Lead	Secondary
221	237 ROCK CRK CHURCH RD NW	Lead	Secondary
222	24 Everts St NE	Lead	Secondary
223	25 17th St SE	Lead	Secondary
224	258 15th St SE	Lead	Secondary
225	2604 Rhode Island Ave NE	Lead	Secondary
226	2649 Bowen Rd SE	Lead	Secondary
227	3014 8th St SE	Lead	Secondary
228	3016 Warder St NW	Lead	Secondary
229	3033 Bladensburg Rd NE	Lead	Secondary
230	3036 P St NW	Lead	Secondary
231	308 9th St SE	Lead	Secondary
232	317 9th St SE	Lead	Secondary
233	321 Aspen St NW	Lead	Secondary
234	3217 Georgia Ave NW	Lead	Secondary
235	322 TENNESSEE AVE NE	Lead	Secondary
236	3361 Stuyvesant PI NW	Lead	Secondary
237	3511 Woodley Rd NW	Lead	Secondary

No	Address	Pipe Material	Priority
238	3524 Park PI NW	Lead	Secondary
239	3545 Holmead PI NW	Lead	Secondary
240	3700 Quebec St NW	Lead	Secondary
241	3704 Porter St NW	Lead	Secondary
242	3720 NORTHAMPTON ST NW	Lead	Secondary
243	410 Farragut St NW	Lead	Secondary
244	417 15th St SE	Lead	Secondary
245	4211 Illinois Ave NW	Lead	Secondary
246	4310 37th St NW	Lead	Secondary
247	432 15th St SE	Lead	Secondary
248	4411 15th St NW	Lead	Secondary
249	4411 Illinois Ave NW	Lead	Secondary
250	4419 14th St NE	Lead	Secondary
251	4423 Kane PI NE	Lead	Secondary
252	449 S St NW	Lead	Secondary
253	4531 Georgia Ave NW	Lead	Secondary
254	4606 Sheriff Rd NE	Lead	Secondary
255	4609 5th St NW	Lead	Secondary
256	4718 Sheriff Rd NE	Lead	Secondary
257	4824 46th St NW	Lead	Secondary
258	4842 KANSAS AVE NW	Lead	Secondary
259	4906 9th St NW	Lead	Secondary
260	5000 13th St NW	Lead	Secondary
261	501 Webster St NW	Lead	Secondary
262	5024 7th St NW	Lead	Secondary
263	507 Alabama Ave SE	Lead	Secondary
264	5122 Cathedral Ave NW	Lead	Secondary
265	5226 7th St NW	Lead	Secondary
266	5234 Illinois Ave NW	Lead	Secondary
267	524 Shepherd St NW	Lead	Secondary
268	525 6th St SE	Lead	Secondary
269	53 P St NW	Lead	Secondary
270	5316 28th St NW	Lead	Secondary
271	5328 Kansas Ave NW	Lead	Secondary
272	535 10th St SE	Lead	Secondary
273	536 Newton PI NW	Lead	Secondary
274	5404 Kansas Ave NW	Lead	Secondary
275	5409 13th St NW	Lead	Secondary
276	5516 Kansas Ave NW	Lead	Secondary
277	5517 7th St NW	Lead	Secondary

No	Address	Pipe Material	Priority
278	5603 16th St NW	Lead	Secondary
279	5612 14th St NW	Lead	Secondary
280	5613 30th St NW	Lead	Secondary
281	5731 3rd PI NW	Lead	Secondary
282	580 49th PI NE	Lead	Secondary
283	5907 4th St NW	Lead	Secondary
284	5909 16th St NW	Lead	Secondary
285	5923 33rd St NW	Lead	Secondary
286	6001 33rd St NW	Lead	Secondary
287	6001 Nevada Ave NW	Lead	Secondary
288	6105 Dix St NE	Lead	Secondary
289	611 Roxboro PI NW	Lead	Secondary
290	612 ROCK CRK CHURCH RD NW	Lead	Secondary
291	617 6th St NE	Lead	Secondary
292	617 M St NE	Lead	Secondary
293	619 Girard St NE	Lead	Secondary
294	6203 Piney Branch Rd NW	Lead	Secondary
295	621 Upshur St NW	Lead	Secondary
296	6210 8th St NW	Lead	Secondary
297	6308 8th St NW	Lead	Secondary
298	632 Webster St NW	Lead	Secondary
299	644 Lamont St NW	Lead	Secondary
300	7129 Georgia Ave NW	Lead	Secondary
301	728 FARRAGUT ST NW	Lead	Secondary
302	743 Gresham PI NW	Lead	Secondary
303	75 Bates St NW	Lead	Secondary
304	753 Gresham PI NW	Lead	Secondary
305	760 Gresham PI NW	Lead	Secondary
306	811 E St SE	Lead	Secondary
307	812 Buchanan St NW	Lead	Secondary
308	822 K St NE	Lead	Secondary
309	87 S St NW	Lead	Secondary
310	88 R St NW	Lead	Secondary
311	905 Kent PI NE	Lead	Secondary
312	910 Farragut St NW	Lead	Secondary
313	912 Emerson St NW	Lead	Secondary
314	915 Farragut St NW	Lead	Secondary
315	915 Shepherd St NW	Lead	Secondary
316	1207 Trinidad Ave NE	Partial Lead	Secondary
317	1217 Orren St NE	Partial Lead	Secondary

No	Address	Pipe Material	Priority
318	1223 Pleasant St SE	Partial Lead	Secondary
319	1301 Michigan Ave NE	Partial Lead	Secondary
320	1353 Iris St NW	Partial Lead	Secondary
321	1412 Shepherd St NW	Partial Lead	Secondary
322	1424 S ST SE	Partial Lead	Secondary
323	1523 D St SE	Partial Lead	Secondary
324	1614 V St SE	Partial Lead	Secondary
325	1701 2nd St NE	Partial Lead	Secondary
326	1749 Irving St NW	Partial Lead	Secondary
327	1755 Lanier PI NW	Partial Lead	Secondary
328	1802 Kilbourne PI NW	Partial Lead	Secondary
329	1814 MONROE ST NW	Partial Lead	Secondary
330	1836 L St NE	Partial Lead	Secondary
331	1839 MONROE ST NW	Partial Lead	Secondary
332	1843 MONROE ST NW	Partial Lead	Secondary
333	1850 2ND ST NW	Partial Lead	Secondary
334	1908 Biltmore St NW	Partial Lead	Secondary
335	1931 SUMMIT PL NE	Partial Lead	Secondary
336	201 13th St NE	Partial Lead	Secondary
337	205 TAYLOR ST NW	Partial Lead	Secondary
338	2220 13th St SE	Partial Lead	Secondary
339	223 14th PI NE	Partial Lead	Secondary
340	2237 CHESTER ST SE	Partial Lead	Secondary
341	228 Randolph PI NE	Partial Lead	Secondary
342	230 G St NE	Partial Lead	Secondary
343	231 K St NE	Partial Lead	Secondary
344	234 Longfellow St NW	Partial Lead	Secondary
345	2408 2nd St NE	Partial Lead	Secondary
346	2928 33rd PI NW	Partial Lead	Secondary
347	3001 7th St NE	Partial Lead	Secondary
348	3030 44TH ST NW	Partial Lead	Secondary
349	3105 34th St NW	Partial Lead	Secondary
350	312 14TH ST NE	Partial Lead	Secondary
351	313 16th St SE	Partial Lead	Secondary
352	319 Ingraham St NW	Partial Lead	Secondary
353	32 Todd PI NE	Partial Lead	Secondary
354	3202 38TH ST NW	Partial Lead	Secondary
355	333 34th St NE	Partial Lead	Secondary
356	335 17TH PL NE	Partial Lead	Secondary
357	3428 Brown St NW	Partial Lead	Secondary

No	Address	Pipe Material	Priority
358	3721 Windom Pl NW	Partial Lead	Secondary
359	3809 ALTON PL NW	Partial Lead	Secondary
360	42 Q St NE	Partial Lead	Secondary
361	420 Kenyon St NW	Partial Lead	Secondary
362	4215 39th St NW	Partial Lead	Secondary
363	441 Quincy St NW	Partial Lead	Secondary
364	4616 HUNT PL NE	Partial Lead	Secondary
365	502 Oglethorpe St NW	Partial Lead	Secondary
366	506 Irving St NW	Partial Lead	Secondary
367	513 Florida Ave NE	Partial Lead	Secondary
368	514 13th St SE	Partial Lead	Secondary
369	518 Varnum St NW	Partial Lead	Secondary
370	522 Park Rd NW	Partial Lead	Secondary
371	53 V St NW	Partial Lead	Secondary
372	5301 RENO RD NW	Partial Lead	Secondary
373	5304 Reno Rd NW	Partial Lead	Secondary
374	5404 39TH ST NW	Partial Lead	Secondary
375	545 PARK RD NW	Partial Lead	Secondary
376	605 Columbia Rd NW	Partial Lead	Secondary
377	605 ROCK CRK CHURCH RD NW	Partial Lead	Secondary
378	617 Kenyon St NW	Partial Lead	Secondary
379	661 MARYLAND AVE NE	Partial Lead	Secondary
380	720 PARK RD NW	Partial Lead	Secondary
381	736 Fairmont St NW	Partial Lead	Secondary
382	765 GIRARD ST NW	Partial Lead	Secondary
383	7721 14th St NW	Partial Lead	Secondary
384	780 Fairmont St NW	Partial Lead	Secondary
385	817 DECATUR ST NW	Partial Lead	Secondary
386	833 DECATUR ST NW	Partial Lead	Secondary
387	924 Hamilton St NW	Partial Lead	Secondary

Table 2
Site Changes From the 2009 Sample Pool—Sites Removed, Added, or Priority
Status Changed

No	Address	Pipe Material	Old Priority	Revision	Reason
1	10 S St NW	Lead	Secondary	Primary	Returned bottles this semester
2	1003 Otis St NE	Lead	Secondary	Primary	Returned bottles this semester
3	1011 Taylor St NE	Lead	Secondary	Primary	Returned bottles this semester
4	1025 44th St NE	Lead	Secondary	Primary	Returned bottles this semester
5	1106 Allison St NW	Lead	Secondary	Primary	Returned bottles this semester
6	1150 Abbey PI NE	Lead	Secondary	Primary	Returned bottles this semester
7	118 Kentucky Ave SE	Lead	Secondary	Primary	Returned bottles this semester
8	1202 Monroe St NW	Lead	Secondary	Primary	Returned bottles this semester
9	1214 Evarts St NE	Partial Lead	Secondary	Primary	Returned bottles this semester
10	1320 Allison St NE	Lead	Secondary	Primary	Returned bottles this semester
11	1370 Taylor St NW	Lead	Secondary	Primary	Returned bottles this semester
12	1409 22nd St SE	Lead	Secondary	Primary	Returned bottles this semester
13	1420 Hamlin St NE	Partial Lead	Secondary	Primary	Returned bottles this semester
14	1434 Taylor St NW	Lead	Secondary	Primary	Returned bottles this semester
15	1453 S St NW	Lead	Secondary	Primary	Returned bottles this semester
16	15 Milmarson PI NW	Lead	Secondary	Primary	Returned bottles this semester
17	1507 Buchanan St NW	Lead	Secondary	Primary	Returned bottles this semester
18	1607 KEARNY ST NE	Lead	Secondary	Primary	Returned bottles this semester
19	1620 Webster St NW	Lead	Secondary	Primary	Returned bottles this semester
20	1623 Kennedy PI NW	Lead	Secondary	Primary	Returned bottles this semester
21	1623 U St SE	Lead	Secondary	Primary	Returned bottles this semester
22	1703 D St NE	Lead	Secondary	Primary	Returned bottles this semester
23	1707 37th St NW	Lead	Secondary	Primary	Returned bottles this semester
24	1825 16th St NW	Lead	Secondary	Primary	Returned bottles this semester
25	213 49th St NE	Lead	Secondary	Primary	Returned bottles this semester
26	2138 O St NW	Lead	Secondary	Primary	Returned bottles this semester
27	2305 Minnesota Ave SE	Partial Lead	Secondary	Primary	Returned bottles this semester
28	2913 Brandywine St NW	Lead	Secondary	Primary	Returned bottles this semester
29	307 7th St NE	Lead	Secondary	Primary	Returned bottles this semester
30	313 Aspen St NW	Lead	Secondary	Primary	Returned bottles this semester
31	3215 G St SE	Lead	Secondary	Primary	Returned bottles this semester
32	3216 Klinge Rd NW	Lead	Secondary	Primary	Returned bottles this semester
33	3431 S Dakota Ave NE	Lead	Secondary	Primary	Returned bottles this semester
34	3533 W PI NW	Lead	Secondary	Primary	Returned bottles this semester
35	3612 34th St NW	Lead	Secondary	Primary	Returned bottles this semester
36	3631 Ordway St NW	Lead	Secondary	Primary	Returned bottles this semester

No	Address	Pipe Material	Old Priority	Revision	Reason
37	3634 WARDER ST NW	Lead	Secondary	Primary	Returned bottles this semester
38	3727 T St NW	Lead	Secondary	Primary	Returned bottles this semester
39	3805 Blaine St NE	Lead	Secondary	Primary	Returned bottles this semester
40	4105 Fessenden St NW	Lead	Secondary	Primary	Returned bottles this semester
41	4113 Connecticut Ave NW	Lead	Secondary	Primary	Returned bottles this semester
42	413 4th St SE	Partial Lead	Secondary	Primary	Returned bottles this semester
43	4214 8th St NW	Lead	Secondary	Primary	Returned bottles this semester
44	1317 Otis St NE	Lead	Primary	Secondary	No bottles returned in past 2 sampling periods
45	1380 E ST NE	Lead	Primary	Secondary	No bottles returned in past 2 sampling periods
46	224 Varnum St NW	Lead	Primary	Secondary	No bottles returned in past 2 sampling periods
47	322 TENNESSEE AVE NE	Lead	Primary	Secondary	No bottles returned in past 2 sampling periods
48	3704 Porter St NW	Lead	Primary	Secondary	No bottles returned in past 2 sampling periods
49	3720 NORTHAMPTON ST NW	Lead	Primary	Secondary	No bottles returned in past 2 sampling periods
50	410 Farragut St NW	Lead	Primary	Secondary	No bottles returned in past 2 sampling periods
51	417 15th St SE	Lead	Primary	Secondary	No bottles returned in past 2 sampling periods
52	4419 14th St NE	Lead	Primary	Secondary	No bottles returned in past 2 sampling periods
53	1301 Michigan Ave NE	Partial Lead	Primary	Secondary	No bottles returned in past 2 sampling periods
54	1412 Shepherd St NW	Partial Lead	Primary	Secondary	No bottles returned in past 2 sampling periods
55	2216 1st St NW	Lead	Primary	Secondary	No bottles returned in past 2 sampling periods
56	1224 5th St NE	Lead	Primary	Removed	Request no participation
57	1240 Half St SW	Partial Lead	Primary	Removed	Request no participation
58	1320 Delafield PI NW	Lead	Primary	Removed	Request no participation
59	1522 EAST CAPITOL ST NE	Lead	Secondary	Removed	Request no participation
60	1534 D St NE	Lead	Primary	Removed	Request no participation
61	2010 3rd St NE	Lead	Primary	Removed	Request no participation
62	3059 Porter St NW	Partial Lead	Primary	Removed	Request no participation
63	320 Tennessee Ave NE	Lead	Secondary	Removed	Request no participation
64	433 Hamilton St NW	Lead	Primary	Removed	Request no participation
65	4609 30TH ST NW	Partial Lead	Primary	Removed	Request no participation
66	916 Farragut St NW	Lead	Primary	Removed	Request no participation
67	927 Hamilton St NW	Lead	Primary	Removed	Request no participation

No	Address	Pipe Material	Old Priority	Revision	Reason
68	1008 MARYLAND AVE NE	Copper	Primary	Removed	Public side replaced 9/2004; WASA conducted plumbing survey 7/2009 and found copper coming into house
69	1013 I St NE	Copper	Primary	Removed	Public side replaced 9/2006; Customer reported private side replaced 11/2006 on 9/09 chain of custody
70	1208 Montello Ave NE	Copper	Secondary	Removed	Replaced galvanized iron on public side; assume private side is also galvanized
71	1224 Irving St NW	Copper	Primary	Removed	Public side replaced 5/9/07; customer reported private replaced in 2008 on 9/09 chain of custody
72	1824 47th PI NW	Copper	Secondary	Removed	New tap installed 9/1/09
73	3408 LOWELL ST NW	Copper	Primary	Removed	Public side replaced 6/25/09 connected to copper
74	6630 1st St NW	Copper	Secondary	Removed	Public side replaced 7/30/09 connected to copper
75	818 A L ST NE	Copper	Secondary	Removed	New tap installed 8/29/2008
76	1354 W St SE	Copper	Secondary	Removed	Public side replaced 11/5/09 and private side replaced 11/19/09
77	1323 Quincy St NE	Lead	Secondary	Removed	Multi-family residence
78	1422 Corcoran St NW	Lead	Secondary	Removed	Multi-family residence
79	226 11th St NE	Lead	Secondary	Removed	Multi-family residence
80	2818 13th St NW	Lead	Secondary	Removed	Multi-family residence
81	2846 VISTA ST NE	Lead	Primary	Removed	Multi-family residence
82	1533 4th St NW	Lead	Secondary	Removed	Address not found; maps indicate location is on a campus
83	119 Kentucky Ave SE	Lead	Secondary	Removed	No bottles returned in past 4 sample periods
84	1319 21st ST NW	Lead	Secondary	Removed	No bottles returned in past 4 sample periods
85	1920 Jackson St NE	Lead	Secondary	Removed	No bottles returned in past 4 sample periods
86	1929 SUMMIT PL NE	Lead	Secondary	Removed	No bottles returned in past 4 sample periods
87	256 15th St SE	Lead	Secondary	Removed	No bottles returned in past 4 sample periods
88	3069 Canal Rd NW	Lead	Secondary	Removed	No bottles returned in past 4 sample periods
89	37 R St NW	Lead	Secondary	Removed	No bottles returned in past 4 sample periods
90	4105 5th St NW	Lead	Secondary	Removed	No bottles returned in past 4 sample periods
91	427 15th St SE	Lead	Secondary	Removed	No bottles returned in past 4 sample periods
92	1230 Half St SW	Partial Lead	N/A	Primary	Added to increase sampling in SW (geographic distribution)
93	8 N St SW	Lead	Secondary	Primary	Changed to primary to increase sampling in SW (geographic distribution)

Notes for Table 2:

¹The pipe materials listed are current (contain all updates listed in Table 3).

²Customers that do not return samples for four consecutive LCR sampling events are removed from the Sample Pool.

³Primary customers that do not return samples for two consecutive LCR sampling events are moved to secondary priority.

⁴Customers that are secondary priority and return samples are moved to primary priority.

**Table 3
Pipe Material Changes**

No	Address	Pipe Material	Revised Pipe Material	Reason
1	1008 MARYLAND AVE NE	Partial Lead	Copper	Public side replaced 9/2004; WASA conducted plumbing survey 7/2009 and found copper coming into house
2	1013 I St NE	Partial Lead	Copper	Public side replaced 9/2006; Customer reported private side replaced 11/2006 on 9/09 chain of custody
3	1208 Montello Ave NE	Lead	Copper	Replaced galvanized iron on public side; assume private side is also galvanized
4	1224 Irving St NW	Partial Lead	Copper	Public side replaced 5/9/07; customer reported private replaced in 2008 on 9/09 chain of custody
5	1354 W St SE	Lead	Copper	Public side replaced 11/5/09 and private side replaced 11/19/09
6	1824 47th PI NW	Lead	Copper	Customer installed new service line 9/1/09
7	3408 LOWELL ST NW	Lead	Copper	Public side replaced 6/25/09 connected to copper
8	6630 1st St NW	Lead	Copper	Public side replaced 7/30/09 connected to copper
9	818 A L ST NE	Lead	Copper	Customer installed new service line 8/29/2008
10	1420 Hamlin St NE	Lead	Partial Lead	Customer reported private side replaced in 1995
11	1214 Evarts St NE	Lead	Partial Lead	Test pit showed copper from main to meter and lead meter to property line
12	1701 2nd St NE	Lead	Partial Lead	Copper observed on public side during meter installation
13	333 34th St NE	Lead	Partial Lead	Test pit showed copper from main to meter and lead meter to property line
14	413 4th St SE	Lead	Partial Lead	Customer reported private side replaced in 1999
15	1223 Pleasant St SE	Lead	Partial Lead	Public side replacement on 5/11/09
16	1614 V St SE	Lead	Partial Lead	Public side replacement on 5/19/09
17	2305 Minnesota Ave SE	Lead	Partial Lead	Public side replacement on 11/3/08
18	2220 13th St SE	Lead	Partial Lead	Public side replacement on 5/6/09

¹The lead service line replacement process first requires a test pit on the public side to identify the pipe material of the service line. If the customer has not agreed to replace the private side and the public side test pit shows a non-lead service line, then WASA will not dig another test pit on the private side. In these cases, WASA assumes the private side service line material pipe material is the same material as the closest test pit to the private property line for the LCR Sample Pool data. For example, if a test pit shows copper from the main to the property line and no other service line material information regarding the private side is available, then the site would be removed from the Sample Pool.

Table 4
Sample Sites for OCCT

Site ID	Address
1H-14	FH #12, 2225 5th St, NE
2H-3 BKJV	Ingraham St. & 8th St, NW
3H-3 BKJV	27th & Military Rd, NW
3H-4	FH #22, 5760 Georgia Ave. NW
4H-4	Tenley Minimarket, 4326 Wisconsin Ave, NW
A1H-5 BKJV	3375 Minnesota Ave, SE
A1H-8	My 3 Sons Barber Shop, 3125 MLK Ave, SE
A2H-2	3825 Alabama Ave, SE
L-4	Harbor Police Station, 550 Water St, SW
L-7	South West Health Center, 850 Delaware, SW

Appendix A

Chain of Custody

Revised July 8, 2009



D.C. WATER AND SEWER AUTHORITY LEAD AND COPPER MONITORING PROGRAM




<<Address>>

Thank you for participating in the District of Columbia Water and Sewer Authority's (DC WASA) Lead and Copper Rule Monitoring Program. The test results from water samples collected at your residence are an integral part of DC WASA's compliance program. Please note that participants' test results are submitted to the Environmental Protection Agency Region 3 to demonstrate the effectiveness of the drinking water treatment process. It is important that you follow the instructions below to ensure the integrity of the Monitoring Program; otherwise, we will have to discard the samples.

Part 1 Water Stagnation (The process for preventing water from flowing)

1. **Do Not** use any water in the household for at least 6 hours.
2. Write the date and time that you last used the kitchen faucet on the attached chain-of-custody form.
3. Make sure that water to appliances such as a HVAC humidifier, a lawn sprinkler system, or an icemaker, including the icemaker inside your refrigerator/freezer, is turned off.

Part 2 Water Sampling (Please do not remove aerator from faucet)

1. Use the kitchen cold-water faucet for all sampling. If you have a water treatment unit or filter attached to your plumbing system or faucet, please bypass the unit or remove the filter before sampling.
2. Gently open the cold water faucet and immediately fill the first bottle to the top. Close the faucet and tightly cap the sample bottle once the bottle is full.
3. On the bottle label, fill out **Collect Date**, **Collect Time**, **Collector** (your name), **Address**, and Circle **1st Draw**. Leave **Sample #** blank.
4. Open the cold-water faucet and run the water, keeping a hand/finger under the flowing water until the water changes temperature. Fill the second bottle to the top and tightly cap the bottle.
5. On the bottle label, fill out **Collect Date**, **Collect Time**, **Collector** (your name), **Address**, and circle **2nd Draw**. Leave **Sample #** blank.

Part 3 Fill out the Chain-of-Custody Form and Leave for DCWASA Pick-up

1. Note the Date and Time of sampling for both bottles on the attached chain-of-custody form. Please make sure that you answer all the questions and sign the form.
2. Leave samples and completed form on the front porch or where the kit was dropped off. DCWASA will pick-up the samples on **Thursday, November 19th** (please call 202-612-3440, if you need to schedule an alternative pick-up day).

If you have any questions regarding these instructions Call (202) 612-3440 or Email us at waterquality@dcwasa.com or write to D.C. Water and Sewer Authority – Department of Water Services, Water Quality Division, 3900 Donaldson Place, NW, Washington, D.C. 20016.

Rev. 7/8/09



CUSTOMER INFORMATION	LABORATORY USE ONLY
<i>Please change any incorrect information</i>	
Name «Last_Name»	Sample ID# _____
Address «Address»	Sample Type: <u>D</u> System: WASA
Daytime phone # _____	Date/Time/Received By: _____
Email _____	Premise # «Premise_number»

Please Complete This Section:

Water last used on: Date: _____ Time: _____ AM / PM

1st Draw Sample collection: Date: _____ Time: _____ AM / PM

2nd Draw Sample collection: Date: _____ Time: _____ AM / PM

Please respond to the following questions:

- | | | |
|---|-----|----|
| 1) Does your home contain two or more dwelling units (distinct separate living units)? | YES | NO |
| 2) Was your home built after 1982? | YES | NO |
| If yes, what date? _____ | | |
| 3) Was the private portion of your service line replaced (from the house to the property line) | YES | NO |
| If yes, what date? _____ | | |
| 4) Have there been any major plumbing changes inside the house (pipes & fixtures) during the following dates: | | |
| a. Between January 1983 and March 1987? | YES | NO |
| b. After March 1987? | YES | NO |
| c. If Yes to either, please describe changes (e.g., replaced pipes and fixtures in kitchen) | | |

Conditions During Stagnation and Sampling - *Samples cannot be processed if the water was used during the stagnation period!*

- | | | | |
|---|-----|-----|----|
| 5) Were there any leaks in the plumbing (faucets, toilets)? | YES | NO | |
| 6) Was there any other household usage during the minimum 6 hour stagnation period? | YES | NO | |
| 7) Were the following units using water during the stagnation period? | | | |
| a. Ice maker | N/A | YES | NO |
| b. Sprinkler system | N/A | YES | NO |
| c. Humidifier | N/A | YES | NO |
| 8) Do you have a water treatment unit or filter attached to your plumbing system or faucet? | YES | NO | |
| a. If yes, was the unit or filter bypassed before sampling? | YES | NO | |

I have read and followed the sampling instructions on the previous page before collecting tap samples.

Signature: _____ Date: _____

SAMPLE PICK-UP DATE: THURSDAY, November 19th, 2009

Appendix B

Customer Letters - Notification of Results



**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
DEPARTMENT OF WATER SERVICES
WATER QUALITY DIVISION**

3900 DONALDSON PLACE, NW, WASHINGTON, D.C. 20016

December 24, 2009

«First_name» «Last_Name»
«Address»
Washington, DC «Zip_Code»

Dear «First_name»«Last_Name»,

Thank you for participating in the Lead and Copper Tap Water Monitoring Program administered by the District of Columbia Water and Sewer Authority (DC WASA). Your participation helps us monitor the quality of drinking water in the District of Columbia.

DC WASA is responsible for supplying drinking water to the residents of the District of Columbia. There is no problem with lead in drinking water as it leaves the treatment plant; the problem arises when the water causes corrosion inside the lead service lines and in homes with lead-based plumbing.

You were asked to provide two water samples to help us determine how faucet fixtures, household pipes, service lines and solder contribute to the lead and copper levels in tap water.

- First draw samples are required by the EPA and measure lead levels in water from your fixtures and in-house plumbing near the sample tap.
- Second draw samples reflect lead levels coming from your service line (the line from the water main to the house) and in-house plumbing.

The test results listed below indicate that the lead and copper concentrations of the tap water in your home are below the EPA action levels. The EPA action levels¹ for lead and copper are 15 parts per billion (ppb) and 1,300 ppb, respectively.

Sample Site	Draw	Concentration Of Lead in ppb	Concentration Of Copper in ppb
«Address»	First	«Lead_mgL_1st_Draw»	«Copper_mgL_1st_Draw»
	Second	«Lead_mgL_2nd_Draw»	«Copper_mgL_2nd_Draw»
EPA Action Level		15 ppb	1300 ppb

Your home has a full or partial lead service line according to our records. If this is not correct, please contact DC WASA at the telephone number listed in the closing of this letter.

EPA has established a Maximum Contaminant Level Goal (MCLG)² for lead at zero. MCLGs

¹ EPA defines an Action Level as the concentration of a contaminant, which if exceeded triggers treatment or other requirements which a water system must follow. Note that Action Levels are not health-based levels.



**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
DEPARTMENT OF WATER SERVICES
WATER QUALITY DIVISION**

3900 DONALDSON PLACE, NW, WASHINGTON, D.C. 20016

are stringent because they allow for a margin of safety and do not take into account the cost associated with removing or fully treating all lead in the environment.

There are several sources of lead which can be found in your home such as lead paint, lead in toys, lead deposited in soil, as well as lead in your drinking water from plumbing, fixtures and lead service lines, all of which can contribute to daily exposure. For information on reducing lead exposure around your home and the health effects of lead, please visit EPA's website at www.epa.gov/lead.

Recently, household galvanized plumbing was identified as a potential source of lead release in water. Galvanized pipes were installed in many homes constructed before the 1960s. Customers that have galvanized pipes and have or had a lead service line can potentially have lead released in tap water from the corroded pipes. Over many years, corrosion builds-up on the inside walls of galvanized pipes and creates the potential for lead to accumulate. The best way to ensure that lead is not mobilized from plumbing to tap in a given home is to fully replace the galvanized plumbing and lead service lines. For information on galvanized plumbing, please visit the DC WASA website at www.dcwasa.com/waterquality.

The EPA has stated that lead can cause serious health problems, if too much enters the body from drinking water or other sources. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of the body. The greatest risk of lead exposure is to infants, young children and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones, and it can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development.

We take lead exposure very seriously. If you are pregnant and /or have children under the age of six: 1) drink filtered tap water and 2) use filtered tap water to prepare infant formula or concentrated juices until the source has been identified and removed.

In addition DC WASA recommends the following routine steps customers can take to further reduce lead in tap water:

- Use cold tap water for drinking or cooking, as hot tap water could contain higher levels of lead. Cold water should be heated on the stove for hot beverages or cooking.
- If your water has not been used for a few hours, flush your water lines by running the cold water tap for at least 2 minutes prior to using for drinking or cooking.

² MCLG – The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.



**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
DEPARTMENT OF WATER SERVICES
WATER QUALITY DIVISION**

3900 DONALDSON PLACE, NW, WASHINGTON, D.C. 20016

- Periodically, remove and clean the strainer/aerator device on your faucet to remove debris that collects inside.
- Collect and refrigerate cold tap water for drinking purposes in clean, dishwasher safe bottles such as sports bottles, after high water usage in your home (shower usage, running a dishwasher and doing laundry).
- If you have or had a lead service line and still have galvanized plumbing, DC WASA recommends fully replacing lead service lines and galvanized pipes or using a water filter at the tap (See information below on choosing a treatment device).
- If you are using a water filter cartridge, DC WASA recommends that you replace the cartridge routinely, as recommended by the manufacturer.

Note: Boiling water does not reduce lead levels.

The District of Columbia Department of Health's Childhood Lead Poisoning Prevention Program (DC DOH) provides information on how to get a simple blood lead test to check lead levels in young children, pregnant women, and nursing mothers. You can also learn more about how to protect you and your family from lead by contacting the DC DOH at (202) 442-9216, or by visiting the website www.dchealth.dc.gov . If you have additional concerns about a child's health, or would like the screening done by his/her own doctor, please contact his/her pediatrician.

If you are purchasing a treatment device to reduce lead levels at your tap, choose a treatment device (i.e. filtration pitchers or tap filters) that will be used after potentially lead-leaching plumbing components. These devices must be installed, operated and maintained according to manufacturer instructions. Be sure to purchase a treatment device certified by an independent testing organization, such as NSF International. You can search the NSF International website for certified drinking water treatment devices by visiting: www.nsf.org/Certified/DWTU

Please be advised that neither EPA nor DC WASA certifies or endorses specific home drinking water treatment devices.

We appreciate your participation in the Lead and Copper Tap Water Monitoring Program. DC WASA is committed to making continuous improvements in our service to District residents and businesses. We look forward to your continued support of our monitoring and testing programs.



**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
DEPARTMENT OF WATER SERVICES
WATER QUALITY DIVISION**

3900 DONALDSON PLACE, NW, WASHINGTON, D.C. 20016

If you have additional questions or concerns, please call **(202) 612-3440** DC WASA, Water Quality Division or write to DC WASA, Water Quality Division, 3900 Donaldson Pl. NW, Washington, D.C. 20016 or visit us on the web at www.dcwasa.com .

Sincerely,

A handwritten signature in cursive script that reads "R. Giani".

Richard Giani
Manager, Water Quality Division



**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
DEPARTMENT OF WATER SERVICES
WATER QUALITY DIVISION**

3900 DONALDSON PLACE, NW, WASHINGTON, D.C. 20016

December 24, 2009

«First_name» «Last_Name»
«Address»
Washington, DC «Zip_Code»

Dear «First_name» «Last_Name»,

Thank you for participating in the Lead and Copper Tap Water Monitoring Program administered by the District of Columbia Water and Sewer Authority (DC WASA). Your participation helps us monitor the quality of drinking water in the District of Columbia.

DC WASA is responsible for supplying drinking water to the residents of the District of Columbia. There is no problem with lead in drinking water as it leaves the treatment plant; the problem arises when the water causes corrosion inside the lead service lines and in homes with lead-based plumbing.

You were asked to provide two water samples to help us determine how faucet fixtures, household pipes, service lines and solder contribute to the lead and copper levels in tap water.

- First draw samples are required by the EPA and measure lead levels in water from your fixtures and in-house plumbing near the sample tap.
- Second draw samples reflect lead levels coming from your service line (the line from the water main to the house) and in-house plumbing.

The test results listed below indicate that the lead concentration of the tap water in your home is above the EPA action level. The EPA action level¹ for lead in the drinking water is 15 parts per billion (ppb) on the first draw. However, copper test results sampled from your home are below the EPA action level for copper at 1,300 ppb.

Sample Site	Draw	Concentration Of Lead in ppb	Concentration Of Copper in ppb
«Address»	First	«Lead_mgL_1st_Draw»	«Copper_mgL_1st_Draw»
	Second	«Lead_mgL_2nd_Draw»	«Copper_mgL_2nd_Draw»
EPA Action Level		15 ppb	1300 ppb

Your home has a full or partial lead service line according to our records. If this is not correct,

¹ EPA defines an Action Level as the concentration of a contaminant, which if exceeded triggers treatment or other requirements which a water system must follow. Note that Action Levels are not health-based levels.



**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
DEPARTMENT OF WATER SERVICES
WATER QUALITY DIVISION**

3900 DONALDSON PLACE, NW, WASHINGTON, D.C. 20016

please contact DC WASA at the telephone number listed in the closing of this letter.

EPA has established a Maximum Contaminant Level Goal (MCLG)² for lead at zero. MCLGs are stringent because they allow for a margin of safety and do not take into account the cost associated with removing or fully treating all lead in the environment.

There are several sources of lead which can be found in your home such as lead paint, lead in toys, lead deposited in soil, as well as lead in your drinking water from plumbing, fixtures and lead service lines, all of which can contribute to daily exposure. For information on reducing lead exposure around your home and the health effects of lead, please visit EPA's website at www.epa.gov/lead.

Recently, household galvanized plumbing was identified as a potential source of lead release in water. Galvanized pipes were installed in many homes constructed before the 1960s. Customers that have galvanized pipes and have or had a lead service line can potentially have lead released in tap water from the corroded pipes. Over many years, corrosion builds-up on the inside walls of galvanized pipes and creates the potential for lead to accumulate. The best way to ensure that lead is not mobilized from plumbing to tap in a given home is to fully replace the galvanized plumbing and lead service lines. For information on galvanized plumbing, please visit the DC WASA website at www.dcwasa.com/waterquality.

The EPA has stated that lead can cause serious health problems, if too much enters the body from drinking water or other sources. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of the body. The greatest risk of lead exposure is to infants, young children and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones, and it can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development.

We take lead exposure very seriously. If you are pregnant and /or have children under the age of six: 1) drink filtered tap water and 2) use filtered tap water to prepare infant formula or concentrated juices until the source has been identified and removed.

² MCLG – The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.



**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
DEPARTMENT OF WATER SERVICES
WATER QUALITY DIVISION**

3900 DONALDSON PLACE, NW, WASHINGTON, D.C. 20016

In addition DC WASA recommends the following routine steps customers can take to further reduce lead in tap water:

- Use cold tap water for drinking or cooking, as hot tap water could contain higher levels of lead. Cold water should be heated on the stove for hot beverages or cooking.
- If your water has not been used for a few hours, flush your water lines by running the cold water tap for at least 2 minutes prior to using for drinking or cooking.
- Periodically, remove and clean the strainer/aerator device on your faucet to remove debris that collects inside.
- Collect and refrigerate cold tap water for drinking purposes in clean, dishwasher safe bottles such as sports bottles, after high water usage in your home (shower usage, running a dishwasher and doing laundry).
- If you have or had a lead service line and still have galvanized plumbing, DC WASA recommends fully replacing lead service lines and galvanized pipes or using a water filter at the tap (see information below on choosing a treatment device).
- If you are using a water filter cartridge, DC WASA recommends that you replace the cartridge routinely, as recommended by the manufacturer.

Note: Boiling water does not reduce lead levels.

The District of Columbia Department of Health's Childhood Lead Poisoning Prevention Program (DC DOH) provides information on how to get a simple blood lead test to check lead levels in young children, pregnant women, and nursing mothers. You can also learn more about how to protect you and your family from lead by contacting the DC DOH at (202) 442-9216, or by visiting the website www.dchealth.dc.gov . If you have additional concerns about a child's health, or would like the screening done by his/her own doctor, please contact his/her pediatrician.

If you are purchasing a treatment device to reduce lead levels at your tap, choose a treatment device (i.e. filtration pitchers or tap filters) that will be used after potentially lead-leaching plumbing components. These devices must be installed, operated and maintained according to manufacturer instructions. Be sure to purchase a treatment device certified by an independent testing organization, such as NSF International. You can search the NSF International website for certified drinking water treatment devices by visiting: www.nsf.org/Certified/DWTU



**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
DEPARTMENT OF WATER SERVICES
WATER QUALITY DIVISION**

3900 DONALDSON PLACE, NW, WASHINGTON, D.C. 20016

Please be advised that neither EPA nor DC WASA certifies or endorses specific home drinking water treatment devices.

We appreciate your participation in the Lead and Copper Tap Water Monitoring Program. DC WASA is committed to making continuous improvements in our service to District residents and businesses. We look forward to your continued support of our monitoring and testing programs.

If you have additional questions or concerns, please call **(202) 612-3440** DC WASA, Water Quality Division or write to DC WASA, Water Quality Division, 3900 Donaldson Pl. NW, Washington, D.C. 20016 or visit us on the web at www.dcwasa.com .

Sincerely,

A handwritten signature in cursive script that reads "R. Giani".

Richard Giani
Manager, Water Quality Division



**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
DEPARTMENT OF WATER SERVICES
WATER QUALITY DIVISION**

3900 DONALDSON PLACE, NW, WASHINGTON, D.C. 20016

January 25, 2010

«First_name» «Last_Name»
«Address»
Washington, DC «Zip_Code».

Dear «First_name» «Last_Name»,

Thank you for participating in the Lead and Copper Tap Water Monitoring Program administered by the District of Columbia Water and Sewer Authority (DC WASA). Your participation helps us monitor the quality of drinking water in the District of Columbia.

DC WASA is responsible for supplying drinking water to the residents of the District of Columbia. There is no problem with lead in drinking water as it leaves the treatment plant; the problem arises when the water causes corrosion inside the lead service lines and in homes with lead-based plumbing.

You were asked to provide two water samples to help us determine how faucet fixtures, household pipes, service lines and solder contribute to the lead and copper levels in tap water.

- First draw samples are required by the EPA and measure lead levels in water from your fixtures and in-house plumbing near the sample tap.
- Second draw samples reflect lead levels coming from your service line (the line from the water main to the house) and in-house plumbing.

The test results listed below indicate that the first draw lead and copper concentrations of the tap water in your home are below the EPA action levels. The EPA action levels¹ for lead and copper are 15 parts per billion (ppb) and 1,300 ppb, respectively in first draw samples. **However, lead concentrations collected from your second draw sample are greater than 15 ppb.** Although second-draw sampling results are not used to determine compliance with the Lead and Copper Rule's Tap Water Monitoring Program, DC WASA recommends that you take steps to minimize lead exposure as a general precaution. These measures are described later in this letter.

Sample Site	Draw	Concentration of Lead in ppb	Concentration of Copper in ppb
Address	First	«Lead_mgL_1st_Draw»	«Copper_mgL_1st_Draw»
	Second	«Lead_mgL_2nd_Draw»	«Copper_mgL_2nd_Draw»
EPA Action Level		15 ppb	1300 ppb

¹ EPA defines an Action Level as the concentration of a contaminant, which if exceeded triggers treatment or other requirements which a water system must follow. Note that Action Levels are not health-based levels.



**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
DEPARTMENT OF WATER SERVICES
WATER QUALITY DIVISION**

3900 DONALDSON PLACE, NW, WASHINGTON, D.C. 20016

Your home has a full or partial lead service line according to our records. If this is not correct, please contact DC WASA at the telephone number listed in the closing of this letter.

EPA has established a Maximum Contaminant Level Goal (MCLG)² for lead at zero. MCLGs are stringent because they allow for a margin of safety and do not take into account the cost associated with removing or fully treating all lead in the environment.

There are several sources of lead which can be found in your home such as lead paint, lead in toys, lead deposited in soil, as well as lead in your drinking water from plumbing, fixtures and lead service lines, all of which can contribute to daily exposure. For information on reducing lead exposure around your home and the health effects of lead, please visit EPA's website at www.epa.gov/lead.

Recently, household galvanized plumbing was identified as a potential source of lead release in water. Galvanized pipes were installed in many homes constructed before the 1960s. Customers that have galvanized pipes and have or had a lead service line can potentially have lead released in tap water from the corroded pipes. Over many years, corrosion builds-up on the inside walls of galvanized pipes and creates the potential for lead to accumulate. The best way to ensure that lead is not mobilized from plumbing to tap in a given home is to fully replace the galvanized plumbing and lead service lines. For information on galvanized plumbing, please visit the DC WASA website at www.dcwasa.com/waterquality.

The EPA has stated that lead can cause serious health problems, if too much enters the body from drinking water or other sources. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of the body. The greatest risk of lead exposure is to infants, young children and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones, and it can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development.

We take lead exposure very seriously. If you are pregnant and /or have children under the age of six: 1) drink filtered tap water and 2) use filtered tap water to prepare infant formula or concentrated juices until the source has been identified and removed.

² MCLG – The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.



**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
DEPARTMENT OF WATER SERVICES
WATER QUALITY DIVISION**

3900 DONALDSON PLACE, NW, WASHINGTON, D.C. 20016

In addition DC WASA recommends the following routine steps customers can take to further reduce lead in tap water:

- Use cold tap water for drinking or cooking, as hot tap water could contain higher levels of lead. Cold water should be heated on the stove for hot beverages or cooking.
- If your water has not been used for a few hours, flush your water lines by running the cold water tap for at least 2 minutes prior to using for drinking or cooking.
- Periodically, remove and clean the strainer/aerator device on your faucet to remove debris that collects inside.
- Collect and refrigerate cold tap water for drinking purposes in clean, dishwasher safe bottles such as sports bottles, after high water usage in your home (shower usage, running a dishwasher and doing laundry).
- If you have or had a lead service line and still have galvanized plumbing, DC WASA recommends fully replacing lead service lines and galvanized pipes or using a water filter at the tap (see information below on choosing a treatment device).
- If you are using a water filter cartridge, DC WASA recommends that you replace the cartridge routinely, as recommended by the manufacturer.

Note: Boiling water does not reduce lead levels.

The District of Columbia Department of Health's Childhood Lead Poisoning Prevention Program (DC DOH) provides information on how to get a simple blood lead test to check lead levels in young children, pregnant women, and nursing mothers. You can also learn more about how to protect you and your family from lead by contacting the DC DOH at (202) 442-9216, or by visiting the website www.dchealth.dc.gov. If you have additional concerns about a child's health, or would like the screening done by his/her own doctor, please contact his/her pediatrician.

If you are purchasing a treatment device to reduce lead levels at your tap, choose a treatment device (i.e. filtration pitchers or tap filters) that will be used after potentially lead-leaching plumbing components. These devices must be installed, operated and maintained according to manufacturer instructions. Be sure to purchase a treatment device certified by an independent testing organization, such as NSF International. You can search the NSF International website for certified drinking water treatment devices by visiting: www.nsf.org/Certified/DWTU

Please be advised that neither EPA nor DC WASA certifies or endorses specific home drinking water treatment devices.



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We appreciate your participation in the Lead and Copper Tap Water Monitoring Program. DC WASA is committed to making continuous improvements in our service to District residents and businesses. We look forward to your continued support of our monitoring and testing programs.

If you have additional questions or concerns, please call **(202) 612-3440** DC WASA, Water Quality Division or write to DC WASA, Water Quality Division, 3900 Donaldson Pl. NW, Washington, D.C. 20016 or visit us on the web at www.dcwasa.com.

Sincerely,

A handwritten signature in black ink that reads "R. Giani".

Richard Giani
Manager, Water Quality Division