October 28, 2016

Mr. Mike Vogel
Interim Director of Facilities and Construction Management
South Washington County Schools
7362 East Douglas Point Road S
Cottage Grove, MN 55016
P 651-425-6274
E mvogel@sowashco.org

Providing Trusted Health & Safety Solutions

RE: Red Rock Elementary
Lead-in-Water Testing
IEA Project #201610819

Dear Mr. Vogel,

At the request of South Washington County Schools, IEA collected a total of 83 samples of drinking water on September 23, 2016, for lead analyses from the Red Rock Elementary building.

The purpose of the site sampling was to document lead levels in the sampled locations and compare them to the EPA action level of 20 parts per billion (ppb).

INTRODUCTION

The Environmental Protection Agency (EPA) established the Lead Contamination Control Act (LCCA) of 1988 to identify and reduce lead in drinking water. Both the EPA and the Minnesota Department of Health (MDH) recommend testing of potable water sources (water used for consumption) every five years for the presence of lead. Lead is a metal that usually enters drinking water through the distribution system, including pipes, solders, faucets, and valves. Lead levels in water may increase when the water is allowed to sit undisturbed in the system, such as in science, biology, or art areas. Exposure to lead is a significant health concern, especially to infants and young children whose growing bodies absorb lead more readily than adult bodies do. Lead exposure can cause delays in physical and/or mental development in children and damage to the brain, kidneys, nervous system, and red blood cells. The EPA and MDH recommend that action be taken at a specific fixture when the lead concentration exceeds the EPA's action level for schools of 20 parts per billion (ppb).

METHODOLOGY

IEA collected 83 first-draw (unless otherwise noted) samples of approximately 500 milliliters (ml). "First draw" means the samples are collected before the fixture is used or flushed during the day. The first-draw sample results reflect a worst case scenario, i.e., the highest lead level that would be consumed by building occupants. Current protocol calls for flushing locations 8-18 hours prior to sampling.

Site map with sample locations are included in Appendix A. Water samples were analyzed by Minnesota Valley Testing Laboratories (MVTL) in New Ulm, Minnesota, which uses EPA approved analytical methods and quality control/assurance procedures. Samples were analyzed using the ICP/MS EPA Method 200.8.

RESULTS & DISCUSSION

The lead-in-water sampling results ranged from 0.60 ppb to 69.9 ppb. There is one (1) sample result greater than 20 ppb. See *Table 1: Water Testing Result Exceeding 20 ppb*. The laboratory report is provided in Appendix B. Laboratory results are reported in micrograms per liter (µg/L) which is equivalent to parts per billion (ppb).

Table 1: Water Testing Result Exceeding 20 ppb – September 23, 2016

Sample Number	Building	Sampling Location	Fixture Type	Lead Result (ppb)
16-A50928	Red Rock Elementary	Kitchen Sink #1	Faucet	69.9

ppb – parts per billion

There were no results with lead levels between 15 ppb and 20 ppb. For this range, although the EPA recommends that school drinking water not exceed 20 ppb, the MDH recommends schools seek to reduce the amount of lead in drinking water to as close to zero as possible. The next highest result for Red Rock Elementary was 10.8 ppb, the sink in Room E104.

RECOMMENDATIONS

IEA recommends implementing one of the following treatment options for the fixtures with lead level exceeding the EPA action level of 20 ppb. These recommendations should also be considered for the fixtures with lead level approaching 20 ppb.

- Install a point-of-use treatment device, such as the Omnipure OMB934 1M Lead Reduction Filter.
- Conduct flush testing in accordance with EPA or MDH guidelines to determine if flushing will reduce lead levels. If results indicate that flushing will reduce lead to acceptable levels, implement a flushing program which includes documentation of daily flushing and periodic program review.
- Replace fixture with "lead free" fixture certified to NSF/ANSI 372 or NSF/ANSI 61-G. The *Reduction of Lead in Drinking Water Act* redefines "lead free" as "not more than a weighted average of 0.25% lead when used with respect to the wetted surfaces of pipes, pipe fittings, plumbing fittings, and fixtures." Effective January 4, 2014, drinking water system components sold or installed must adhere to this new requirement.
- Remove fixture from service by disconnecting it from the water supply.
- Post signs that the water is not potable and to notify staff of this.

In addition, IEA recommends that a copy of the district's Lead- in-Drinking Water Testing Report be made available to staff and the public through the district's administrative offices.

GENERAL CONDITIONS

The analysis and opinions expressed in this report are based upon water testing at South Washington County Schools. This report does not reflect variations in conditions that may occur. Actual conditions may vary and may not become evident without further assessment.

The report is prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted environmental, health and safety practices. Other than as provided in the preceding sentence and in our Proposal #5406A dated August 5, 2016 regarding Lead-in-Water Testing, including the General Conditions attached thereto, no warranties are extended or made.

Please contact IEA if you would like assistance with any of the above recommendations or have questions regarding this report.

Sincerely,

IEA, INC.

Amy Satterfield, CPPM I
Director of Business Development

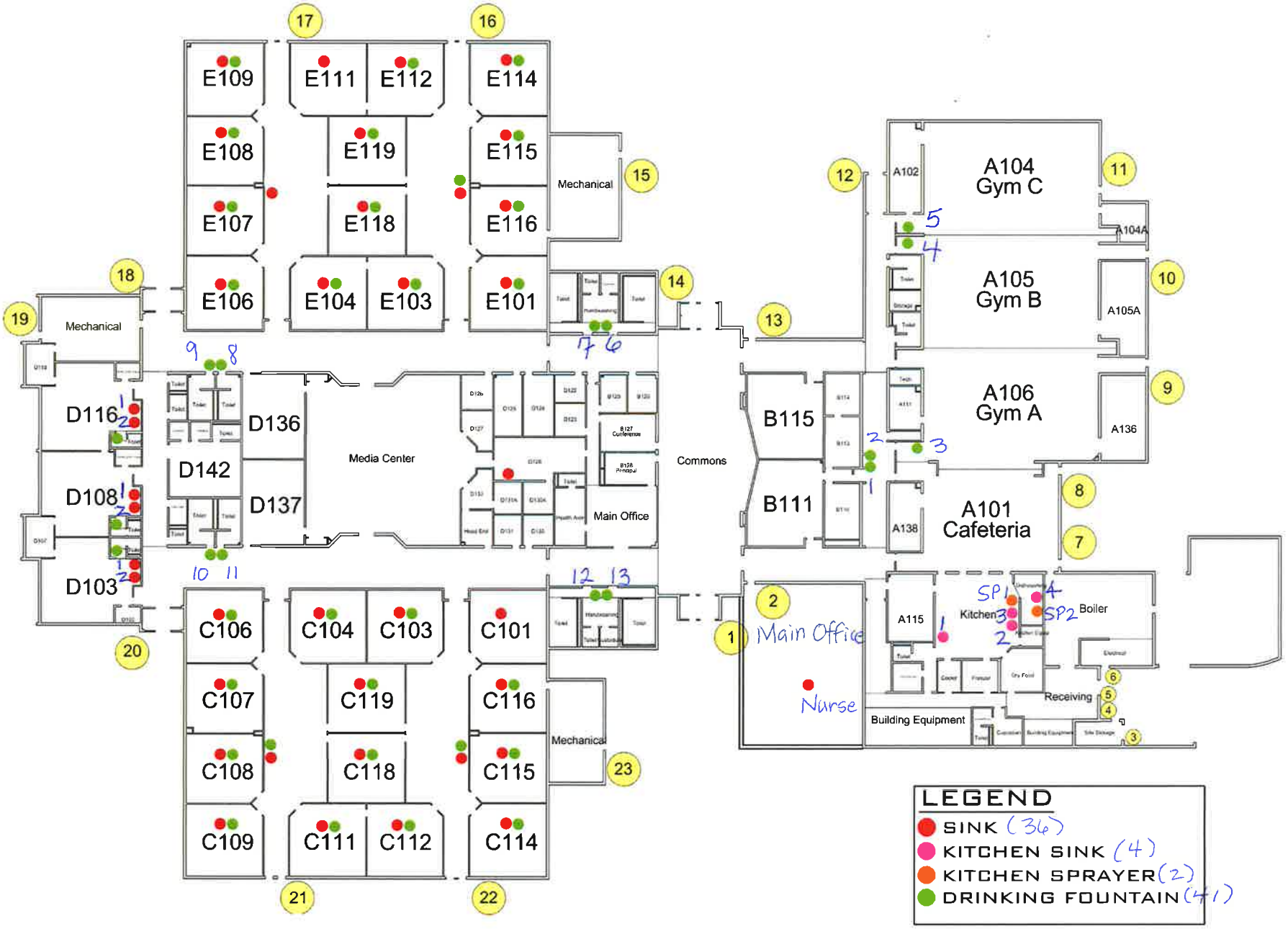
Karen Weiblen
EHS/IEQ Consultant

Enclosure

cc: Damien Nelson, Safety & Security

Appendix A

Site Map/Drawing



INSTITUTE FOR ENVIRONMENTAL ASSESSMENT
9201 West Broadway Brooklyn Park, MN 55445
Tel: 763.315.7900 Toll Free: 800.233.9513
Fax: 763.315.7920

RED ROCK ELEMENTARY SCHOOL

FIRST LEVEL FLOOR PLAN

OCT. 2016

Appendix B

Laboratory Testing Report

MINNESOTA VALLEY TESTING LABORATORIES, INC.

MVTL

1126 N. Front St. ~ New Ulm, MN 56073 ~ 800-782-3557 ~ Fax 507-359-2890
2616 E. Broadway Ave. ~ Bismarck, ND 58501 ~ 800-279-6885 ~ Fax 701-258-9724
1201 Lincoln Highway ~ Nevada, IA 50201 ~ 800-362-0855 ~ Fax 515-382-3885
www.mvtl.com

MEMBER ACIL

Report Date: 28 Oct 2016

HEIDI SOLBERG
IEA/BROOKLYN PARK
9201 W BDWY STE #600
BROOKLYN PARK MN 55445

Work Order #: 12-14673
Account #: 002190
Purchase Order #: 201610819

Date Received: 23 Sep 2016
Date Sampled: 23 Sep 2016
Temperature at Receipt: 19.6C

PROJECT NAME: RED ROCK ELEM.
PROJECT NUMBER: 201610819

LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A50928	09232016RRE-1 KITCHEN SINK #1	69.9 ^ug/L	15.0	15 Oct 16	RMV
16-A50929	09232016RRE-2 KITCHEN SINK #2	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50930	09232016RRE-3 KITCHEN SINK #3	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50931	09232016RRE-4 KITCHEN SINK #4	1.43 ^ug/L	15.0	15 Oct 16	RMV
16-A50932	09232016RRE-5 KITCHEN SPRAYER #1	2.49 ^ug/L	15.0	15 Oct 16	RMV
16-A50933	09232016RRE-6 KITCHEN SPRAYER #2	1.38 ^ug/L	15.0	15 Oct 16	RMV
16-A50934	09232016RRE-7 SINK NURSES OFFICE	1.18 ^ug/L	15.0	15 Oct 16	RMV
16-A50935	09232016RRE-8 DF #1	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50936	09232016RRE-9 DF #2	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50937	09232016RRE-10 DF #3	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50938	09232016RRE-11 DF #4	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50939	09232016RRE-12 DF #5	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50940	09232016RRE-13 DF #6	< 1 ^ ug/L	15.0	15 Oct 16	RMV

Approved by: R. Dan O'Connell

Dan O'Connell, Asst. Chemistry Laboratory Manager New Ulm, MN

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CERTIFICATION: MN LAB # 027-015-125 WI LAB # 999447680 ND MICRO # 1013-M ND WW/DW # R-040

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16-A50941	09232016RRE-14 DF #7	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50942	09232016RRE-15 DF #8	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50943	09232016RRE-16 DF #9	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50944	09232016RRE-17 DF #10	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50945	09232016RRE-18 DF #11	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50946	09232016RRE-19 DF #12	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50947	09232016RRE-20 DF #13	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50948	09232016RRE-21 SINK RM D128	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50949	09232016RRE-23 DF RM C103	2.43 ^ug/L	15.0	15 Oct 16	RMV
16-A50950	09232016RRE-24 DF RM C104	5.04 ^ug/L	15.0	15 Oct 16	RMV
16-A50951	09232016RRE-25 DF RM C106	1.99 ^ug/L	15.0	15 Oct 16	RMV
16-A50952	09232016RRE-26 DF RM C107	2.98 ^ug/L	15.0	15 Oct 16	RMV
16-A50953	09232016RRE-27 DF RM C108	< 1 ^ ug/L	15.0	15 Oct 16	RMV

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LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A50954	09232016RRE-28 DF RM C109	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50955	09232016RRE-29 DF RM C111	1.18 ^ug/L	15.0	15 Oct 16	RMV
16-A50956	09232016RRE-30 DF RM C112	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50957	09232016RRE-31 DF RM C114	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50958	09232016RRE-32 DF RM C115	1.07 ^ug/L	15.0	15 Oct 16	RMV
16-A50959	09232016RRE-33 DF RM C116	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50960	09232016RRE-34 SINK RM C101	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50961	09232016RRE-35 SINK RM C103	2.76 ^ug/L	15.0	15 Oct 16	RMV
16-A50962	09232016RRE-36 SINK RM C104	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50963	09232016RRE-37 SINK RM C106	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50964	09232016RRE-38 SINK RM C107	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50965	09232016RRE-39 SINK RM C108	< 1 ^ ug/L	15.0	15 Oct 16	RMV

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16-A50966	09232016RRE-40 SINK RM C109	1.07 ^ug/L	15.0	15 Oct 16	RMV
16-A50967	09232016RRE-41 SINK RM C111	1.18 ^ug/L	15.0	15 Oct 16	RMV
16-A50968	09232016RRE-42 SINK RM C112	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50969	09232016RRE-43 SINK RM C114	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50970	09232016RRE-44 SINK RM C115	1.05 ^ug/L	15.0	15 Oct 16	RMV
16-A50971	09232016RRE-45 SINK RM C116	1.03 ^ug/L	15.0	15 Oct 16	RMV
16-A50972	09232016RRE-46 DF OUTSIDE RM C116	1.41 ^ug/L	15.0	15 Oct 16	RMV
16-A50973	09232016RRE-47 DF OUTSIDE RM C107	2.10 ^ug/L	15.0	15 Oct 16	RMV
16-A50974	09232016RRE-48 SINK OUTSIDE RM C116	1.47 ^ug/L	15.0	15 Oct 16	RMV
16-A50975	09232016RRE-49 DF OUTSIDE RM C107	1.16 ^ug/L	15.0	15 Oct 16	RMV
16-A50976	09232016RRE-50 DF RM D103	1.81 ^ug/L	15.0	15 Oct 16	RMV
16-A50977	09232016RRE-51 DF RM D108	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50978	09232016RRE-52 DF RM D116	1.23 ^ug/L	15.0	15 Oct 16	RMV

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16-A50979	09232016RRE-53 SINK #1 D103	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50980	09232016RRE-54 SINK #2 D103	1.13 ^ug/L	15.0	15 Oct 16	RMV
16-A50981	09232016RRE-55 SINK #1 D108	2.01 ^ug/L	15.0	15 Oct 16	RMV
16-A50982	09232016RRE-56 SINK #2 D108	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50983	09232016RRE-57 SINK #1 D116	1.03 ^ug/L	15.0	15 Oct 16	RMV
16-A50984	09232016RRE-58 SINK #2 D116	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50985	09232016RRE-59 DF E101	1.62 ^ug/L	15.0	15 Oct 16	RMV
16-A50986	09232016RRE-60 DF E103	1.82 ^ug/L	15.0	15 Oct 16	RMV
16-A50987	09232016RRE-61 DF E104	7.25 ^ug/L	15.0	15 Oct 16	RMV
16-A50988	09232016RRE-62 DF E106	5.43 ^ug/L	15.0	15 Oct 16	RMV
16-A50989	09232016RRE-63 DF E107	1.61 ^ug/L	15.0	15 Oct 16	RMV
16-A50990	09232016RRE-64 DF E108	1.20 ^ug/L	15.0	15 Oct 16	RMV

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LAB NUMBER	SAMPLE DESCRIPTION	LEAD RESULTS	MCL	DATE ANALYZED	ANALYST
16-A50991	09232016RRE-65 DF E109	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50992	09232016RRE-67 DF E112	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A50993	09232016RRE-68 DF E114	1.06 ^ug/L	15.0	15 Oct 16	RMV
16-A50994	09232016RRE-69 DF E115	1.24 ^ug/L	15.0	15 Oct 16	RMV
16-A50995	09232016RRE-70 DF E116	1.00 ^ug/L	15.0	15 Oct 16	RMV
16-A50996	09232016RRE-71 DF OUTSIDE E116	1.79 ^ug/L	15.0	15 Oct 16	RMV
16-A50997	09232016RRE-72 SINK OUTSIDE E116	1.17 ^ug/L	15.0	15 Oct 16	RMV
16-A50998	09232016RRE-74 SINK OUTSIDE E108	1.80 ^ug/L	15.0	15 Oct 16	RMV
16-A50999	09232016RRE-75 SINK E101	< 1 ^ ug/L	15.0	15 Oct 16	RMV
16-A51000	09232016RRE-76 SINK E103	2.94 ^ug/L	15.0	15 Oct 16	RMV
16-A51001	09232016RRE-77 SINK E104	10.8 ^ug/L	15.0	15 Oct 16	RMV
16-A51002	09232016RRE-78 SINK E106	1.38 ^ug/L	15.0	15 Oct 16	RMV
16-A51003	09232016RRE-79 SINK E107	0.60 ug/L	15.0	26 Oct 16	RMB

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16-A51004	09232016RRE-80 SINK E108	1.20	ug/L	15.0	26 Oct 16	RMB
16-A51005	09232016RRE-81 SINK E109	1.05	ug/L	15.0	26 Oct 16	RMB
16-A51006	09232016RRE-82 SINK E111	0.80	ug/L	15.0	26 Oct 16	RMB
16-A51007	09232016RRE-83 SINK E112	0.88	ug/L	15.0	26 Oct 16	RMB
16-A51008	09232016RRE-84 SINK E114	0.95	ug/L	15.0	26 Oct 16	RMB
16-A51009	09232016RRE-85 SINK E115	0.85	ug/L	15.0	26 Oct 16	RMB
16-A51010	09232016RRE-86 SINK E116	0.61	ug/L	15.0	26 Oct 16	RMB

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