

Unregulated Contaminant Monitoring Rule (UCMR3) Data Report Assessment Monitoring

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|-----------------------------------|-----------|----------------------|
| PWS ID/Name | MI0000340 | Bad Axe |
| Sample Event Code/Sample Schedule | SE1 | February, 2015 |
| Facility ID/Name | 90001 | BPS #1 |
| Sample Point ID/Type/Name | EP001 | EP BPS #1 Sample Tap |
| Disinfectant Type ¹ | CLOF | |

| Sample Kit ID | Method ID | Analyte Name ² | Collection Date | Reported Value ³ (µg/L) ⁴ |
|---------------|-----------|---------------------------|-----------------|---|
| 112183P | EPA 200.8 | chromium | 2/9/2015 | <0.2 |
| 112183P | EPA 200.8 | cobalt | 2/9/2015 | <1 |
| 112183P | EPA 200.8 | germanium | 2/9/2015 | <1 |
| 112183P | EPA 200.8 | manganese | 2/9/2015 | <1 |
| 112183P | EPA 200.8 | molybdenum | 2/9/2015 | <1 |
| 112183P | EPA 200.8 | strontium | 2/9/2015 | =98.746 |
| 112183P | EPA 200.8 | tellurium | 2/9/2015 | <1 |
| 112183P | EPA 200.8 | vanadium | 2/9/2015 | <0.2 |
| 112183P | EPA 218.7 | chromium-6 | 2/9/2015 | =0.1 |
| 112183P | EPA 300.1 | chlorate | 2/9/2015 | =66.421 |
| 112183P | EPA 522 | 1,4-dioxane | 2/9/2015 | <0.07 |
| 112183P | EPA 524.3 | 1,1-dichloroethane | 2/9/2015 | <0.03 |
| 112183P | EPA 524.3 | 1,2,3-trichloropropane | 2/9/2015 | <0.03 |
| 112183P | EPA 524.3 | 1,3-butadiene | 2/9/2015 | <0.1 |
| 112183P | EPA 524.3 | bromomethane | 2/9/2015 | <0.2 |
| 112183P | EPA 524.3 | chloromethane | 2/9/2015 | <0.2 |
| 112183P | EPA 524.3 | Halon 1011 | 2/9/2015 | <0.06 |
| 112183P | EPA 524.3 | HCFC-22 | 2/9/2015 | <0.08 |
| 112183P | EPA 524.3 | n-propylbenzene | 2/9/2015 | <0.03 |
| 112183P | EPA 524.3 | sec-butylbenzene | 2/9/2015 | <0.04 |
| 112183P | EPA 537 | PFBS | 2/9/2015 | <0.09 |
| 112183P | EPA 537 | PFHpA | 2/9/2015 | <0.01 |
| 112183P | EPA 537 | PFHxS | 2/9/2015 | <0.03 |
| 112183P | EPA 537 | PFNA | 2/9/2015 | <0.02 |
| 112183P | EPA 537 | PFOA | 2/9/2015 | <0.02 |
| 112183P | EPA 537 | PFOS | 2/9/2015 | <0.04 |

Unregulated Contaminant Monitoring Rule (UCMR3) Data Report Assessment Monitoring

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|--------------------------------|-------|---|
| Facility ID/Name | 99001 | Distribution System |
| Sample Point ID/Type/Name | MR001 | MR 700 Skinner Street (Standard Electric) |
| Disinfectant Type ¹ | CLOF | |

| Sample Kit ID | Method ID | Analyte Name ² | Collection Date | Reported Value ³ (µg/L) ⁴ |
|---------------|-----------|---------------------------|-----------------|---|
| 312265P | EPA 200.8 | chromium | 2/9/2015 | <0.2 |
| 312265P | EPA 200.8 | cobalt | 2/9/2015 | <1 |
| 312265P | EPA 200.8 | germanium | 2/9/2015 | <1 |
| 312265P | EPA 200.8 | manganese | 2/9/2015 | <1 |
| 312265P | EPA 200.8 | molybdenum | 2/9/2015 | <1 |
| 312265P | EPA 200.8 | strontium | 2/9/2015 | =102.212 |
| 312265P | EPA 200.8 | tellurium | 2/9/2015 | <1 |
| 312265P | EPA 200.8 | vanadium | 2/9/2015 | <0.2 |
| 312265P | EPA 218.7 | chromium-6 | 2/9/2015 | =0.135 |
| 312265P | EPA 300.1 | chlorate | 2/9/2015 | =51.091 |

¹Disinfectant types were collected for EPA Method 300.1: Gaseous Chlorine (CLGA), Offsite Generated Hypochlorite (CLOF), Onsite Generated Hypochlorite (CLON), Chloramine-formed from gaseous chlorine (CAGC), Chloramine-formed from offsite hypochlorite (CAOF), Chloramine-formed from onsite hypochlorite (CAON), Chlorine Dioxide (CLDO), Ozone (OZON), Ultraviolet Light (ULVL), Other (OTHD), No Disinfectant Used (NODU).

²In addition to reporting occurrence data for UCMR3 target analytes, EPA tasked its small-system contract-support laboratories with reporting results for sec-butylbenzene, n-propylbenzene, tellurium, germanium, and manganese. These additional unregulated analytes are within the scope of the methods already being performed for the UCMR analytes. The CCR reporting requirement does not apply to these additional analytes.

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⁴A detection of a UCMR3 analyte above the MRL does not represent cause for concern, in itself. The implications of the detection should be judged considering health effects information, which is often still under development or being refined for unregulated contaminants. For more information on occurrence data consult "UCMR 3 Data Considerations, Definitions, Reference Concentrations and Summary PDF" at <http://water.epa.gov/lawsregs/rulesregs/sdwa/ucmr/data.cfm#ucmr2013>.

Unregulated Contaminant Monitoring Rule (UCMR3) Data Report Assessment Monitoring

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|-----------------------------------|-----------|----------------------|
| PWS ID/Name | MI0000340 | Bad Axe |
| Sample Event Code/Sample Schedule | SE2 | May, 2015 |
| Facility ID/Name | 90001 | BPS #1 |
| Sample Point ID/Type/Name | EP001 | EP BPS #1 Sample Tap |
| Disinfectant Type ¹ | CLOF | |

| Sample Kit ID | Method ID | Analyte Name ² | Collection Date | Reported Value ³ (µg/L) ⁴ |
|---------------|-----------|---------------------------|-----------------|---|
| 113234Q | EPA 200.8 | chromium | 5/11/2015 | <0.2 |
| 113234Q | EPA 200.8 | cobalt | 5/11/2015 | <1 |
| 113234Q | EPA 200.8 | germanium | 5/11/2015 | <1 |
| 113234Q | EPA 200.8 | manganese | 5/11/2015 | <1 |
| 113234Q | EPA 200.8 | molybdenum | 5/11/2015 | <1 |
| 113234Q | EPA 200.8 | strontium | 5/11/2015 | =101.584 |
| 113234Q | EPA 200.8 | tellurium | 5/11/2015 | <1 |
| 113234Q | EPA 200.8 | vanadium | 5/11/2015 | <0.2 |
| 113234Q | EPA 218.7 | chromium-6 | 5/11/2015 | =0.084 |
| 113234Q | EPA 300.1 | chlorate | 5/11/2015 | =65.602 |
| 113234Q | EPA 522 | 1,4-dioxane | 5/11/2015 | <0.07 |
| 113234Q | EPA 524.3 | 1,1-dichloroethane | 5/11/2015 | <0.03 |
| 113234Q | EPA 524.3 | 1,2,3-trichloropropane | 5/11/2015 | <0.03 |
| 113234Q | EPA 524.3 | 1,3-butadiene | 5/11/2015 | <0.1 |
| 113234Q | EPA 524.3 | bromomethane | 5/11/2015 | <0.2 |
| 113234Q | EPA 524.3 | chloromethane | 5/11/2015 | <0.2 |
| 113234Q | EPA 524.3 | Halon 1011 | 5/11/2015 | <0.06 |
| 113234Q | EPA 524.3 | HCFC-22 | 5/11/2015 | <0.08 |
| 113234Q | EPA 524.3 | n-propylbenzene | 5/11/2015 | <0.03 |
| 113234Q | EPA 524.3 | sec-butylbenzene | 5/11/2015 | <0.04 |
| 113234Q | EPA 537 | PFBS | 5/11/2015 | <0.09 |
| 113234Q | EPA 537 | PFHpA | 5/11/2015 | <0.01 |
| 113234Q | EPA 537 | PFHxS | 5/11/2015 | <0.03 |
| 113234Q | EPA 537 | PFNA | 5/11/2015 | <0.02 |
| 113234Q | EPA 537 | PFOA | 5/11/2015 | <0.02 |
| 113234Q | EPA 537 | PFOS | 5/11/2015 | <0.04 |

Unregulated Contaminant Monitoring Rule (UCMR3) Data Report Assessment Monitoring

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|--------------------------------|-------|---|
| Facility ID/Name | 99001 | Distribution System |
| Sample Point ID/Type/Name | MR001 | MR 700 Skinner Street (Standard Electric) |
| Disinfectant Type ¹ | CLOF | |

| Sample Kit ID | Method ID | Analyte Name ² | Collection Date | Reported Value ³ (µg/L) ⁴ |
|---------------|-----------|---------------------------|-----------------|---|
| 313312P | EPA 200.8 | chromium | 5/11/2015 | <0.2 |
| 313312P | EPA 200.8 | cobalt | 5/11/2015 | <1 |
| 313312P | EPA 200.8 | germanium | 5/11/2015 | <1 |
| 313312P | EPA 200.8 | manganese | 5/11/2015 | <1 |
| 313312P | EPA 200.8 | molybdenum | 5/11/2015 | <1 |
| 313312P | EPA 200.8 | strontium | 5/11/2015 | =118.193 |
| 313312P | EPA 200.8 | tellurium | 5/11/2015 | <1 |
| 313312P | EPA 200.8 | vanadium | 5/11/2015 | <0.2 |
| 313312P | EPA 218.7 | chromium-6 | 5/11/2015 | =0.125 |
| 313312P | EPA 300.1 | chlorate | 5/11/2015 | =55.981 |

¹Disinfectant types were collected for EPA Method 300.1: Gaseous Chlorine (CLGA), Offsite Generated Hypochlorite (CLOF), Onsite Generated Hypochlorite (CLON), Chloramine-formed from gaseous chlorine (CAGC), Chloramine-formed from offsite hypochlorite (CAOF), Chloramine-formed from onsite hypochlorite (CAON), Chlorine Dioxide (CLDO), Ozone (OZON), Ultraviolet Light (ULVL), Other (OTHD), No Disinfectant Used (NODU).

²In addition to reporting occurrence data for UCMR3 target analytes, EPA tasked its small-system contract-support laboratories with reporting results for sec-butylbenzene, n-propylbenzene, tellurium, germanium, and manganese. These additional unregulated analytes are within the scope of the methods already being performed for the UCMR analytes. The CCR reporting requirement does not apply to these additional analytes.

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Unregulated Contaminant Monitoring Rule (UCMR3) Data Report Assessment Monitoring

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|-----------------------------------|-----------|----------------------|
| PWS ID/Name | MI0000340 | Bad Axe |
| Sample Event Code/Sample Schedule | SE3 | August, 2015 |
| Facility ID/Name | 90001 | BPS #1 |
| Sample Point ID/Type/Name | EP001 | EP BPS #1 Sample Tap |
| Disinfectant Type ¹ | CLOF | |

| Sample Kit ID | Method ID | Analyte Name ² | Collection Date | Reported Value ³ (µg/L) ⁴ |
|---------------|-----------|---------------------------|-----------------|---|
| 114783Q | EPA 200.8 | chromium | 8/11/2015 | <0.2 |
| 114783Q | EPA 200.8 | cobalt | 8/11/2015 | <1 |
| 114783Q | EPA 200.8 | germanium | 8/11/2015 | <1 |
| 114783Q | EPA 200.8 | manganese | 8/11/2015 | <1 |
| 114783Q | EPA 200.8 | molybdenum | 8/11/2015 | <1 |
| 114783Q | EPA 200.8 | strontium | 8/11/2015 | =110 |
| 114783Q | EPA 200.8 | tellurium | 8/11/2015 | <1 |
| 114783Q | EPA 200.8 | vanadium | 8/11/2015 | =0.3 |
| 114783Q | EPA 218.7 | chromium-6 | 8/11/2015 | =0.08 |
| 114783Q | EPA 300.1 | chlorate | 8/11/2015 | =190 |
| 114783Q | EPA 522 | 1,4-dioxane | 8/11/2015 | <0.07 |
| 114783Q | EPA 524.3 | 1,1-dichloroethane | 8/11/2015 | <0.03 |
| 114783Q | EPA 524.3 | 1,2,3-trichloropropane | 8/11/2015 | <0.03 |
| 114783Q | EPA 524.3 | 1,3-butadiene | 8/11/2015 | <0.1 |
| 114783Q | EPA 524.3 | bromomethane | 8/11/2015 | <0.2 |
| 114783Q | EPA 524.3 | chloromethane | 8/11/2015 | <0.2 |
| 114783Q | EPA 524.3 | Halon 1011 | 8/11/2015 | <0.06 |
| 114783Q | EPA 524.3 | HCFC-22 | 8/11/2015 | <0.08 |
| 114783Q | EPA 524.3 | n-propylbenzene | 8/11/2015 | <0.03 |
| 114783Q | EPA 524.3 | sec-butylbenzene | 8/11/2015 | <0.04 |
| 114783Q | EPA 537 | PFBS | 8/11/2015 | <0.09 |
| 114783Q | EPA 537 | PFHpA | 8/11/2015 | <0.01 |
| 114783Q | EPA 537 | PFHxS | 8/11/2015 | <0.03 |
| 114783Q | EPA 537 | PFNA | 8/11/2015 | <0.02 |
| 114783Q | EPA 537 | PFOA | 8/11/2015 | <0.02 |
| 114783Q | EPA 537 | PFOS | 8/11/2015 | <0.04 |

Unregulated Contaminant Monitoring Rule (UCMR3) Data Report Assessment Monitoring

| | | |
|--------------------------------|-------|---|
| Facility ID/Name | 99001 | Distribution System |
| Sample Point ID/Type/Name | MR001 | MR 700 Skinner Street (Standard Electric) |
| Disinfectant Type ¹ | CLOF | |

| Sample Kit ID | Method ID | Analyte Name ² | Collection Date | Reported Value ³ (µg/L) ⁴ |
|---------------|-----------|---------------------------|-----------------|---|
| 314866P | EPA 200.8 | chromium | 8/11/2015 | <0.2 |
| 314866P | EPA 200.8 | cobalt | 8/11/2015 | <1 |
| 314866P | EPA 200.8 | germanium | 8/11/2015 | <1 |
| 314866P | EPA 200.8 | manganese | 8/11/2015 | <1 |
| 314866P | EPA 200.8 | molybdenum | 8/11/2015 | <1 |
| 314866P | EPA 200.8 | strontium | 8/11/2015 | =110 |
| 314866P | EPA 200.8 | tellurium | 8/11/2015 | <1 |
| 314866P | EPA 200.8 | vanadium | 8/11/2015 | <0.2 |
| 314866P | EPA 218.7 | chromium-6 | 8/11/2015 | =0.14 |
| 314866P | EPA 300.1 | chlorate | 8/11/2015 | =140 |

¹Disinfectant types were collected for EPA Method 300.1: Gaseous Chlorine (CLGA), Offsite Generated Hypochlorite (CLOF), Onsite Generated Hypochlorite (CLON), Chloramine-formed from gaseous chlorine (CAGC), Chloramine-formed from offsite hypochlorite (CAOF), Chloramine-formed from onsite hypochlorite (CAON), Chlorine Dioxide (CLDO), Ozone (OZON), Ultraviolet Light (ULVL), Other (OTHD), No Disinfectant Used (NODU).

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Unregulated Contaminant Monitoring Rule (UCMR3) Data Report Assessment Monitoring

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|-----------------------------------|-----------|----------------------|
| PWS ID/Name | MI0000340 | Bad Axe |
| Sample Event Code/Sample Schedule | SE4 | November, 2015 |
| Facility ID/Name | 90001 | BPS #1 |
| Sample Point ID/Type/Name | EP001 | EP BPS #1 Sample Tap |
| Disinfectant Type ¹ | CLOF | |

| Sample Kit ID | Method ID | Analyte Name ² | Collection Date | Reported Value ³ (µg/L) ⁴ |
|---------------|-----------|---------------------------|-----------------|---|
| 116049P | EPA 200.8 | chromium | 11/9/2015 | <0.2 |
| 116049P | EPA 200.8 | cobalt | 11/9/2015 | <1 |
| 116049P | EPA 200.8 | germanium | 11/9/2015 | <1 |
| 116049P | EPA 200.8 | manganese | 11/9/2015 | <1 |
| 116049P | EPA 200.8 | molybdenum | 11/9/2015 | <1 |
| 116049F | EPA 200.8 | strontium | 11/9/2015 | =110 |
| 116049P | EPA 200.8 | tellurium | 11/9/2015 | <1 |
| 116049F | EPA 200.8 | vanadium | 11/9/2015 | =0.2 |
| 116049F | EPA 218.7 | chromium-6 | 11/9/2015 | =0.08 |
| 116049F | EPA 300.1 | chlorate | 11/9/2015 | =200 |
| 116049P | EPA 522 | 1,4-dioxane | 11/9/2015 | <0.07 |
| 116049P | EPA 524.3 | 1,1-dichloroethane | 11/9/2015 | <0.03 |
| 116049P | EPA 524.3 | 1,2,3-trichloropropane | 11/9/2015 | <0.03 |
| 116049P | EPA 524.3 | 1,3-butadiene | 11/9/2015 | <0.1 |
| 116049P | EPA 524.3 | bromomethane | 11/9/2015 | <0.2 |
| 116049P | EPA 524.3 | chloromethane | 11/9/2015 | <0.2 |
| 116049P | EPA 524.3 | Halon 1011 | 11/9/2015 | <0.06 |
| 116049P | EPA 524.3 | HCFC-22 | 11/9/2015 | <0.08 |
| 116049P | EPA 524.3 | n-propylbenzene | 11/9/2015 | <0.03 |
| 116049P | EPA 524.3 | sec-butylbenzene | 11/9/2015 | <0.04 |
| 116049P | EPA 537 | PFBS | 11/9/2015 | <0.09 |
| 116049P | EPA 537 | PFHpA | 11/9/2015 | <0.01 |
| 116049P | EPA 537 | PFHxS | 11/9/2015 | <0.03 |
| 116049P | EPA 537 | PFNA | 11/9/2015 | <0.02 |
| 116049P | EPA 537 | PFOA | 11/9/2015 | <0.02 |
| 116049P | EPA 537 | PFOS | 11/9/2015 | <0.04 |

Unregulated Contaminant Monitoring Rule (UCMR3) Data Report Assessment Monitoring

| | | |
|--------------------------------|-------|---|
| Facility ID/Name | 99001 | Distribution System |
| Sample Point ID/Type/Name | MR001 | MR 700 Skinner Street (Standard Electric) |
| Disinfectant Type ¹ | CLOF | |

| Sample Kit ID | Method ID | Analyte Name ² | Collection Date | Reported Value ³ (µg/L) ⁴ |
|---------------|-----------|---------------------------|-----------------|---|
| 316127P | EPA 200.8 | chromium | 11/9/2015 | <0.2 |
| 316127P | EPA 200.8 | cobalt | 11/9/2015 | <1 |
| 316127P | EPA 200.8 | germanium | 11/9/2015 | <1 |
| 316127P | EPA 200.8 | manganese | 11/9/2015 | =1.97 |
| 316127P | EPA 200.8 | molybdenum | 11/9/2015 | <1 |
| 316127P | EPA 200.8 | strontium | 11/9/2015 | =113 |
| 316127P | EPA 200.8 | tellurium | 11/9/2015 | <1 |
| 316127P | EPA 200.8 | vanadium | 11/9/2015 | <0.2 |
| 316127P | EPA 218.7 | chromium-6 | 11/9/2015 | =0.0799 |
| 316127P | EPA 300.1 | chlorate | 11/9/2015 | =229 |

¹Disinfectant types were collected for EPA Method 300.1: Gaseous Chlorine (CLGA), Offsite Generated Hypochlorite (CLOF), Onsite Generated Hypochlorite (CLON), Chloramine-formed from gaseous chlorine (CAGC), Chloramine-formed from offsite hypochlorite (CAOF), Chloramine-formed from onsite hypochlorite (CAON), Chlorine Dioxide (CLDO), Ozone (OZON), Ultraviolet Light (ULVL), Other (OTHD), No Disinfectant Used (NODU).

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