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#### ENVIRONMENT

Subject:  
NPDES Permit No. MI0001597 – 2015 Yearly Stormwater Trend Monitoring Data  
RACER – Buick City Site  
Flint, Michigan

Date:  
May 13, 2016

Contact:  
Christopher S. Peters

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Our ref:  
B0064410.2016

Dear Ms. Vanderlaan:

This report was prepared by Arcadis on behalf of the Revitalizing Auto Communities Environmental Response (RACER) Trust, for the Buick City Site (formerly known as the GM - Powertrain Flint North). The Buick City Site (Site) is located near 902 East Leith Street in Flint, Michigan, in Genesee County and encompasses approximately 433 acres of land as shown on **Figure 1**. The portion of the Site located north of Leith Street (hereafter referred to as the Northend) was in part occupied by General Motors LLC (GM LLC) for manufacturing operations until December 6, 2010. Since December 6, 2010 there have been no manufacturing operations at the Site. Demolition of the Northend of the Site was completed in April 2012. Building demolition was completed in 2001 in the portion of the property located south of Leith Street, which is referred to as the Southend.

RACER is submitting annual stormwater monitoring data as required by Section 1.A.7.a.1 of the above referenced National Pollutant Discharge Elimination System (NPDES) permit for the Site. The current NPDES permit expired in 2010. RACER submitted a timely application to the Michigan Department of Environmental Quality (MDEQ) for a new permit in April 2010. Due to significant changes in Site conditions, a revised NPDES permit application for the Site was

prepared and submitted to the MDEQ on May 15, 2012. This report covers the period of January 1, 2015 through December 31.

The yearly stormwater sampling program, as required by the current NPDES permit, includes the following outfalls, analytes, and regulatory criteria:

Outfall	Analyte	Monthly Average	Daily Maximum
003	Total Polychlorinated Biphenyls	0.026 nanograms/Liter (ng/L)	Not Applicable
008	Total Mercury	1.3 nanograms/Liter (ng/L)	Not Applicable
010	Total Mercury	1.3 nanograms/Liter (ng/L)	Not Applicable
011	Total Copper	Not Applicable	100 micrograms/Liter (mg/L)
012	Total Copper	Not Applicable	100 micrograms/Liter (mg/L)

Locations of these outfalls are shown on **Figures 2 and 3**.

## BACKGROUND

### Outfall 003

A Storm Water Diversion and Treatment System was installed to capture polychlorinated biphenyl (PCB) containing oil from the Outfall 003 and 004 storm sewers (Outfall 003/004 System). The Outfall 003/004 System has been designed to capture oil during dry weather and first-flush stormwater flow conditions through diversion structures, a BaySeparator, and an Oil-Water Separator. The system became fully operational on January 12, 2011.

The Outfall 003 storm sewer system collects flow from the Northend of the Site and upstream offsite drainage areas, and discharges to the Flint River. The majority of the stormwater flow to this system originates from offsite drainage areas, located upgradient of the Site. The total onsite (from RACER property) drainage area of the Outfall 003 storm sewer system is approximately 137 acres. In addition, during dry-weather and first flush stormwater flow conditions, approximately 30 to 35 acres of the Outfall 004 storm sewer drainage area flows to Outfall 003, through the diversion manhole (MH-4-6) and The Outfall 003/004 System. The NPDES permit identifies the water discharging from the Site to the Outfall 003 storm sewer system as regulated stormwater, treated groundwater and other miscellaneous waters, drinking fountain overflow, and potential groundwater infiltration. However, due to changes in Site conditions since the permit was issued, regulated stormwater and potential groundwater infiltration are the only remaining water discharged to Outfall 003.

NPDES Monitoring Point 003A (MP 003A) is the only remaining monitoring point along the Outfall 003 Sewer System. It is located downgradient of Oil Interceptor #2 and the Outfall 003/004 System. Note that during dry weather and first-flush stormwater flow water and oil are diverted through the Outfall 003/004 System from both the Outfall 003 and 004 storm sewers. As such, samples collected at MP 003A represent the combined flow of the Outfall 003 and 004 under these conditions. During stormwater flow conditions, however, flows are diverted around the Outfall 003/004 System and discharge through the

individual outfalls. Therefore, water samples collected at MP003A during stormwater events are representative of flow only from the Outfall 003A storm sewer.

A weekly sample is collected from MP 003A as required in the NPDES permit. This sample is intended to be representative of dry weather/first-flush flow conditions. However, occasionally due to weather conditions it is not possible to collect a dry weather/first-flush flow sample. When those conditions are encountered, a sample is still collected, but noted as a wet weather sample on the eDMR form. The weekly monitoring data is reported in the monthly eDMR. In addition, a yearly wet weather sample is collected from MP 003A and submitted to the laboratory for PCB analysis.

### **Outfall 008**

There is no data for Outfall 008 due to the installation of a permanent storm sewer bulkhead immediately downstream of Monitoring Point 008. The bulkhead was installed on May 10, 2007 because of a no flow condition in the collapsed or plugged storm sewer line for Outfall 008. Thus there is no longer a discharge to the Flint River from Outfall 008 and samples are no longer collected at this outfall.

### **Outfalls 010, 011, and 012**

Outfalls 010, 011, and 012 are located in the Southend of the Site where all manufacturing facilities have been demolished, leaving the former building foundations or slabs at grade elevation. The water discharging from the Site through these outfalls has been identified as non-regulated stormwater and potential groundwater infiltration.

There is no data for Outfall 010 due to the installation of a permanent storm sewer bulkhead in the storm sewer line discharging into Manhole 10-5. In addition, the lateral line connecting Manhole MH 10-4 to the main was excavated, cut, and the void filled with concrete. As such, there is no longer a discharge to the Flint River from Outfall 010 and samples are no longer collected at this outfall. The MDEQ was notified of these activities in a May 6, 2014 letter to Tarek Buckmaster of MDEQ.

Storm sewer discharge from Outfall 011 includes non-regulated stormwater and groundwater infiltration from the drainage area for Outfall 009. The storm sewer outlet for Outfall 009 is connected to manhole 11-8, which discharges through Outfall 011. A portion of the stormwater flow to Outfall 011 originates from offsite drainage areas, located upgradient of the Site. The total onsite drainage area of the Outfall 011 system (including the drainage area for Outfall 009) is approximately 25 acres.

Under the existing NPDES permit a yearly wet weather sample is required to be collected from Outfall 011 and submitted for laboratory analysis of copper.

The Outfall 012 storm sewer system collects flow from the Southend of the Site and offsite drainage areas downstream, and discharges to the Flint River. The total onsite drainage area of the Outfall 012 system is approximately 8 acres.

Under the existing NPDES permit a yearly wet weather samples is required to be collected from Outfall 012 and submitted for laboratory analysis of copper.

## DATA COLLECTION AND ANALYSIS

ARCADIS personnel collected the yearly wet weather samples on May 27, 2015 (MP 003A) and May 6, 2015 (MP011). The samples, submitted for PCB and copper analysis, respectfully, were analyzed by Merit Laboratories, located in East Lansing, Michigan. **Table 1** provides sampling dates, and associated analytes for each of the samples collected from 2008 through 2014. **Attachment 1** provides the laboratory analytical reports for the 2015 samples.

## SUMMARY OF RESULTS

Sampling results for Yearly Trend Monitoring of Outfalls 003, 010, 011 and 012 are summarized in **Table 1**.

### Outfall 003

PCBs were not detected in the 2015 wet weather sample collected from Outfall 003 at MP 003A.

### Outfall 011

Copper was detected in the 2015 wet weather sample collected from Outfall 011 at a concentration of 5 µg/L. This is the highest concentration of copper detected during a wet weather sampling event since the permit effective date (July 1, 2006); however, this concentration is well below the daily maximum goal for copper of 100 µg/L listed in the NPDES permit at this outfall.

### Outfall 012

Outfall 012 was observed several times between May 5 and December 31, 2015. No flow was observed and therefore no wet weather sample was collected during the 2015. No wet weather sample was collected during 2013 or 2014 due to similar circumstances during these years. Copper was detected in the wet weather sample collected from Outfall 012 at a concentration of 4 µg/L during the 2012 wet weather sample collection event, at 5 µg/L during the 2011 wet weather sample collection event and at 6 µg/L during the 2010 wet weather sample collection event. The daily maximum goal for copper listed in the NPDES permit is 100 µg/L. Copper was not detected in samples collected at Outfall 012 in the three years prior to that.

## CONCLUSIONS

### Outfall 003

PCBs concentrations for the yearly wet-weather sampling event have remained at non-detectable levels since September 2010. The Outfall 003/004 System continues to operate and is functioning as intended.

### Outfall 011

Copper was detected at a concentration of 5 µg/L during the 2015 wet weather sample collection event. Copper concentrations consistently remain well below the daily maximum goal for copper listed in the NPDES permit of 100 µg/L.

### Outfall 012

Outfall 012 was observed several times between May 6 and December 31, 2015. No flow was observed and therefore no sample was collected during the 2015 wet weather event. Copper concentrations have historically been well below the daily maximum goal of 100 µg/L listed in the NPDES permit.

If you have any questions, please contact me at 517 324 5052.

Sincerely,

Arcadis of Michigan, LLC



Christopher S. Peters, P.G.  
Vice President

Copies:

Grant Trigger, RACER Trust  
Dave Favero, RACER Trust

Enclosures:

#### Tables

- 1 Stormwater Sampling Summary

#### Figures

- 1 Site Location Map
- 2 Site Diagram – Outfall Drainage Areas Northend
- 3 Site Diagram – Outfall Drainage Areas Southend

#### Attachments

- 1 Laboratory Analytical Reports

# TABLES



**Table 1**  
**Storm Water Sampling Summary**  
**NPDES Permit No. MI0001597**  
**Yearly Trend Monitoring - Outfalls 003, 008, 010, 011, and 012**

**RACER**  
**Buick City**  
**Flint, Michigan**

**Outfall 003 - PCBs**

Outfall	Parameter	Units								
			9/3/2008	9/28/2009	9/28/2010	9/27/2011	10/18/2012	10/7/2013	10/3/2014	05/27/15
003	PCB-1016	µg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
003	PCB-1221	µg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
003	PCB-1232	µg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
003	PCB-1242	µg/L	0.16	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
003	PCB-1248	µg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
003	PCB-1254	µg/L	< 0.10	< 0.10	0.2	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
003	PCB-1260	µg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
003	Total PCB	µg/L	0.16	< 0.10	0.2	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

**Outfall 008**

A permanent storm sewer bulkhead was installed immediately downstream of Manhole 8-1 (Monitoring Point 008) on May 10, 2007 due to a collapsed or plugged storm sewer line. There is no longer a discharge from Outfall 008.

**Outfall 010 - Mercury**

Outfall	Sample Type	Units								
			9/3/2008	9/28/2009	10/13/2010	9/30/2011	10/18/2012	10/7/2013	11/20/2014	2015
010	Sample	ng/L	23.8	6.04	13.6	1.1	12	370	Not Sampled**	Not Sampled**
010	Duplicate	ng/L	25.9	5.73	NA	<0.500	11	160	Not Sampled**	Not Sampled**
010	Equipment Blank	ng/L	<0.500	2.84	NA	<0.500	4.8*	<0.500	Not Sampled**	Not Sampled**
010	Trip Blank	ng/L	<0.500	<0.500	NA	<0.500	4.9*	<0.500	Not Sampled**	Not Sampled**

Note:

\* Merit Laboratories indicate equipment and trip blank detections were most likely caused by naturally occurring mercury in the sample environment as mercury was not detected in the laboratory blank.

\*\* A permanent storm sewer bulkhead was installed in the storm sewer line discharging into Manhole 10-5 and the lateral line connecting Manhole 10-4 to the main was excavated, cut, and the void filled with concrete. There is no longer a discharge from the Site to Outfall 010.

**Outfall 011 - Copper**

Outfall	Parameter	Units								
			9/3/2008	9/28/2009	9/28/2010	10/15/2011	10/18/2012	10/7/2013	11/20/2014	5/6/2015
011	Copper	µg/L	<10	13	<4	<4	4	8	26	5
011	Equipment Blank	µg/L	NA	NA	NA	NA	NA	NA	10***	79***

Note:

\*\*\* Merit Laboratories indicate equipment blank detections were most likely caused by copper in the sample environment as copper was not detected in the laboratory blank.

**Outfall 012 -Copper**

Outfall	Parameter	Units								
			9/3/2008	9/28/2009	11/22/2010	9/26/2011	10/18/2012	10/7/2013	11/20/2014	2015
012	Copper	µg/L	<10	<10	6	5	4	No Flow****	No Flow****	No Flow****

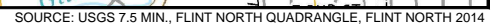
Note:

\*\*\*\* Outfall 012 was checked various times during the 2013, 2014, and 2015 sampling events. No flow was observed and therefore no sample was collected.

FIGURES







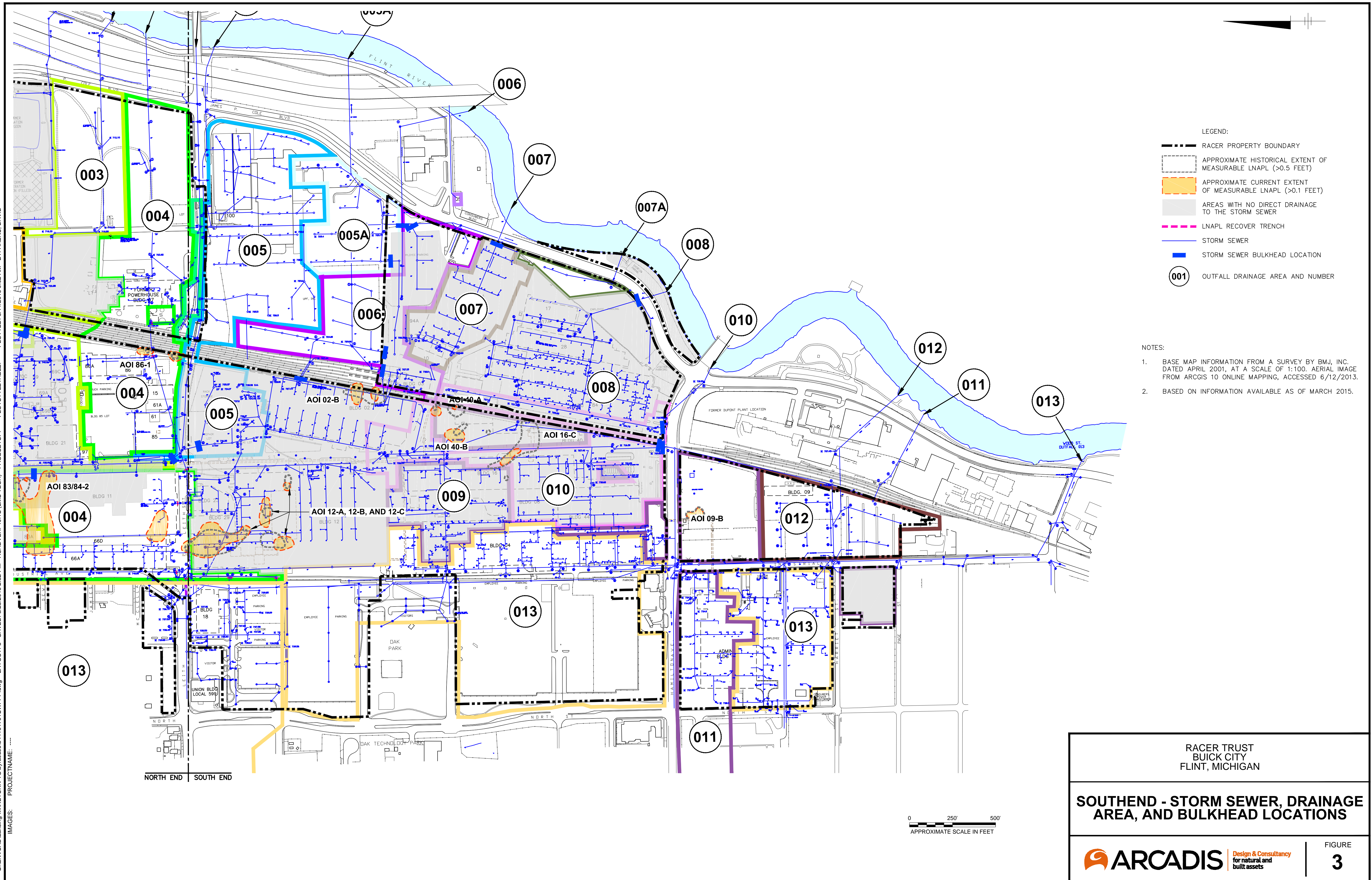
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1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518, 1519, 1520, 1521, 1522, 1523, 1524, 1525, 1526, 1527, 1528, 1529, 1530, 1531, 1532, 1533, 1534, 1535, 1536, 1537, 1538, 1539, 1540, 1541, 1542, 1543, 1544, 1545, 1546, 1547, 1548, 1549, 1550, 1551, 1552, 1553, 1554, 1555, 1556, 1557, 1558, 1559, 1560, 1561, 1562, 1563, 1564, 1565, 1566, 1567, 1568, 1569, 1570, 1571, 1572, 1573, 1574, 1575, 1576, 1577, 1578, 1579, 1580, 1581, 1582, 1583, 1584, 1585, 1586, 1587, 1588, 1589, 1590, 1591, 1592, 1593, 1594, 1595, 1596, 1597, 1598, 1599, 1600, 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1614, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1631, 1632, 1633, 1634, 1635, 1636, 1637, 1638, 1639, 1640, 1641, 1642, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1651, 1652, 1653, 1654, 1655, 1656, 1657, 1658, 1659, 1660, 1661, 1662, 1663, 1664, 1665, 1666, 1667, 1668, 1669, 1670, 1671, 1672, 1673, 1674, 1675, 1676, 1677, 1678, 1679, 1680, 1681, 1682, 1683, 1684, 1685, 1686, 1687, 1688, 1689, 1690, 1691, 1692, 1693, 1694, 1695, 1696, 1697, 1698, 1699, 1700, 1701, 1702, 1703, 1704, 1705, 1706, 1707, 1708, 1709, 1710, 1711, 1712, 1713, 1714, 1715, 1716, 1717, 1718, 1719, 1720, 1721, 1722, 1723, 1724, 1725, 1726, 1727, 1728, 1729, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1743, 1744, 1745, 1746, 1747, 1748, 1749, 1750, 1751, 1752, 1753, 1754, 1755, 1756, 1757, 1758, 1759, 1760, 1761, 1762, 1763, 1764, 1765, 1766, 1767, 1768, 1769, 1770, 1771, 1772, 1773, 1774, 1775, 1776, 1777, 1778, 1779, 1780, 1781, 1782, 1783, 1784, 1785, 1786, 1787, 1788, 1789, 1790, 1791, 1792, 1793, 1794, 1795, 1796, 1797, 1798, 1799, 1800, 1801, 1802, 1803, 1804, 1805, 1806, 1807, 1808, 1809, 1810, 1811, 1812, 1813, 1814, 1815, 1816, 1817, 1818, 1819, 1820, 1821, 1822, 1823, 1824, 1825, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1834, 1835, 1836, 1837, 1838, 1839, 1840, 1841, 1842, 1843, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1857, 1858, 1859, 1860, 1861, 1862, 1863, 1864, 1865, 1866, 1867, 1868, 1869, 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1878, 1879, 1880, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 22







# ATTACHMENT 1

Laboratory Analytical Reports



# Sample Set Receipt

## Report to

Attention: Erin Kozak  
Address: Arcadis  
28550 Cabot Drive  
Suite 500  
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241

Email: erin.kozak@arcadis-us.com

Contacts: Deb Newcom, Beth Nanzer

## Invoice to

Attention: Accounts Payable  
Address: Arcadis  
630 Plaza Drive  
Suite 600  
Highlands Ranch, CO 80129

Phone: 720-344-3500 FAX:

Email: accountspayable.administration@arcadis-us.com

Set ID: S65603 Location: ARCADIS\_NOVI (ARCADIS U.S., Inc.)

PO #: B0064410.2015.1703

Login by: KAG

Project: B0064410.2015.1703 / Buick City RACER Flint, MI

Backlog Note:

Submitted: 05/08/2015 12:05 Due Date: 05/22/2015 Rush: No Collected by: D. Newcom

QC Level: 2

Custom Limits Present: No

Approved by:

Site:

Work Order#:

Bill to Acct:

Bill to Dept:

Sample ID	Sample Tag	Matrix	Date/Time Collected	COC Ref
S65603.01	MP011_05062015_WW	Liquid	05/06/2015 07:45	BC05062015
S65603.02	Equip_Blank_05062015_WW	Liquid	05/06/2015 07:30	BC05062015

Samples: S65603.01-02

Analysis Code	Analysis Title	Method	Units	Holding Date
2155WMS	Copper	E200.8	mg/L	11/02/2015
1605W	Metal Digestion	SW3015A		11/02/2015



REPORT TO										CHAIN OF CUSTODY RECORD										INVOICE TO											
CONTACT NAME Beth Nanzer, Erin Kozak, D.Newcom										CONTACT NAME Christi Kiker										<input checked="" type="checkbox"/> SAME											
COMPANY ARCADIS U.S., Inc.										COMPANY																					
ADDRESS 28550 Cabot Drive Ste 500										ADDRESS																					
CITY Novi				STATE MI			ZIP CODE 48377			CITY				STATE			ZIP CODE														
PHONE NO. 248.994.2314				FAX NO. 248.994.2241			P.O. NO. WA 70			PHONE NO.				EMAIL ADDRESS christi.kiker@arcadis-us.com																	
EMAIL ADDRESSES <del>beth.nanzer@arcadis-us.com</del> , erin.kozak@arcadis-us.com; deborah.newcom@arcadis-us.com										QUOTE NO. WA 70																					
PROJECT NO./NAME B0064410.2015.1703 / Buick City RACER Flint, MI										SAMPLER(S) - PLEASE PRINT/SIGN NAME D.Newcom																					
TURNAROUND TIME REQUIRED <input type="checkbox"/> 1 DAY <input type="checkbox"/> 2 DAYS <input type="checkbox"/> 3 DAYS <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> OTHER																															
DELIVERABLES REQUIRED <input type="checkbox"/> LEVEL I <input checked="" type="checkbox"/> LEVEL II <input type="checkbox"/> LEVEL III <input type="checkbox"/> LEVEL IV <input checked="" type="checkbox"/> EDD <input type="checkbox"/> OTHER																															
Matrix Code: GW=Groundwater WW=Waste Water S=Soil L=Liquid SD=Solid SL=Sludge DW=Drinking Water O=Oil WP=Wipe A=Air W=Waste										# OF CONTAINERS & PRESERVATIVES																					
MERIT LAB NO. FOR LAB USE ONLY		YEAR		SAMPLE TAG IDENTIFICATION - DESCRIPTION				MATRIX		# OF BOTTLES		NONE		HCL		HNO3		H2SO4		NAOH		MEOH		OTHER		Total Copper				Certifications <input type="checkbox"/> Ohio VAP <input type="checkbox"/> Drinking Water <input type="checkbox"/> DoD <input type="checkbox"/> NPDES	
																												Project Locations <input type="checkbox"/> Detroit <input type="checkbox"/> New York <input checked="" type="checkbox"/> Other			
05603.01		5/6/2015		MP011_05062015_WW				L		1						X														Special Instructions	
.02		5/6/2015		Equip_Blank_05062015_WW				L		1						X															
				</																											



# Analytical Laboratory Report

Report ID: S65603.01(01)

Generated on 05/12/2015

Report to

Attention: Erin Kozak  
Arcadis  
28550 Cabot Drive  
Suite 500  
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241

Email: erin.kozak@arcadis-us.com

Additional Contacts: Deb Newcom, Beth Nanzer

Report produced by

Merit Laboratories, Inc.  
2680 East Lansing Drive  
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:

Kevin George (kgeorge@meritlabs.com)

Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S65603.01-S65603.02

Project: B0064410.2015.1703 / Buick City RACER Flint, MI

Collected Date: 05/06/2015

Submitted Date/Time: 05/08/2015 12:05

Sampled by: D. Newcom

P.O. #: B0064410.2015.1703

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Glossary of Abbreviations (Page 3)

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Sample Summary (Page 5)

Maya Murshak  
Technical Director



# Analytical Laboratory Report

## General Report Notes

---

Results relate only to items tested as received by laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis were applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.

QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.

Full accreditation certificates are available upon request.

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

## Report Narrative

---

There is no additional narrative for this analytical report





# Analytical Laboratory Report

## Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

## Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

## Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods



# Analytical Laboratory Report

## Method Summary

Method	Version
E200.8	EPA Method 200.8 Revision 5.4
SW3015A	SW 846 Method 3015A Revision 1 February 2007



## Analytical Laboratory Report

### Sample Summary (2 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S65603.01	MP011_05062015_WW	Liquid	05/06/2015 07:45
S65603.02	Equip_Blank_05062015_WW	Liquid	05/06/2015 07:30



## Analytical Laboratory Report

Lab Sample ID: S65603.01  
Sample Tag: MP011\_05062015\_VW  
Collected Date/Time: 05/06/2015 07:45  
Matrix: Liquid  
COC Reference: BC05062015

### Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	21.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Extraction / Prep.</b>								
Metal Digestion	Completed			SW3015A	05/12/15 11:30	PER		
<b>Metals</b>								
Copper	0.005	mg/L	0.005	E200.8	05/12/15 14:37	PER	7440-50-8	



# Analytical Laboratory Report

Lab Sample ID: S65603.02  
Sample Tag: Equip\_Blank\_05062015\_WW  
Collected Date/Time: 05/06/2015 07:30  
Matrix: Liquid  
COC Reference: BC05062015

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	21.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

### **Extraction / Prep.**

Metal Digestion	Completed			SW3015A	05/12/15 11:30	PER		
-----------------	-----------	--	--	---------	----------------	-----	--	--

### **Metals**

Copper	0.079	mg/L	0.005	E200.8	05/12/15 14:39	PER	7440-50-8	
--------	-------	------	-------	--------	----------------	-----	-----------	--

2680 East Lansing Dr., East Lansing, MI 48823  
Phone (517) 332-0167 Fax (517) 332-4034  
[www.meritlabs.com](http://www.meritlabs.com)

[illegible]



# Analytical Laboratory Report

Report ID: S65922.01(01)

Generated on 06/01/2015

Report to

Attention: Erin Kozak  
Arcadis  
28550 Cabot Drive  
Suite 500  
Novi, MI 48377

Phone: 810-225-1901 FAX: 248-994-2241

Email: erin.kozak@arcadis-us.com

Additional Contacts: Deb Newcom

Report produced by

Merit Laboratories, Inc.  
2680 East Lansing Drive  
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:

Kevin George (kgeorge@meritlabs.com)

Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S65922.01

Project: B0064410.2015.1703 / Buick City RACER Flint, MI

Collected Date: 05/27/2015

Submitted Date/Time: 05/27/2015 14:45

Sampled by: D. Newcom

P.O. #: B0064410.2015.1703

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Glossary of Abbreviations (Page 3)

Method Summary (Page 4)

Sample Summary (Page 5)

Maya Murshak  
Technical Director



# Analytical Laboratory Report

## General Report Notes

---

Results relate only to items tested as received by laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis were applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.

QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.

Full accreditation certificates are available upon request.

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

## Report Narrative

---

There is no additional narrative for this analytical report





# Analytical Laboratory Report

## Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

## Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

## Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods



# Analytical Laboratory Report

## Method Summary

Method	Version
E608	EPA Method 608
SW3510C	SW 846 Method 3510C Revision 3 December 1996



## Analytical Laboratory Report

### Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S65922.01	Outfall003A_05272015_WW	Liquid	05/27/2015 07:45



# Analytical Laboratory Report

Lab Sample ID: S65922.01  
Sample Tag: Outfall003A\_05272015\_WW  
Collected Date/Time: 05/27/2015 07:45  
Matrix: Liquid  
COC Reference: BC052715.2

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

### **Extraction / Prep.**

Extraction, PCB	Completed			SW3510C	05/29/15 10:00	RGS		
-----------------	-----------	--	--	---------	----------------	-----	--	--

### **Organics - PCBs/Pesticides**

#### **PCB**

PCB-1016	Not detected	ug/L	0.1	E608	06/01/15 12:50	JAN	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	E608	06/01/15 12:50	JAN	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	E608	06/01/15 12:50	JAN	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	E608	06/01/15 12:50	JAN	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	E608	06/01/15 12:50	JAN	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	E608	06/01/15 12:50	JAN	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	E608	06/01/15 12:50	JAN	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	E608	06/01/15 12:50	JAN	1336-36-3	

## REPORT TO

CONTACT NAME			
Erin Kozak, D.Newcom			
COMPANY			
ARCADIS U.S., Inc.			
ADDRESS			
28550 Cabot Drive Ste 500			
CITY		STATE	ZIP CODE
Novi		MI	48377
PHONE NO.	FAX NO.	P.O. NO..	
248.994.2314	248.994.2241		
EMAIL ADDRESS		QUOTE NO.	
erin.kozak@arcadis-us.com; us.com		deborah.newcom@arcadis- WA# 070	

### CHAIN OF CUSTODY RECORD

CONTACT NAME		<input checked="" type="checkbox"/> SAME	
Christi Kiker			
COMPANY			
ADDRESS			
CITY		STATE	ZIP CODE
PHONE NO.	EMAIL ADDRESS christi.kiker@arcadis-us.com		

## INVOICE TO

☒ SAME

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME	SAMPLER(S) - PLEASE PRINT/SIGN NAME
B0064410.2015.1703 / Buick City RACER Flint, MI	D.Newcom

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ LEVEL I ☒ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☒ EDD ☐ OTHER

Matrix Code:	GW=Groundwater	WW=Waste Water	S=Soil	L=Liquid	SD=Solid	
	SL=Sludge	DW=Drinking Water	O=Oil	WP=Wipe	A=Air	W=Waste

# OF CONTAINERS & PRESERVATIVES

## Certifications

☐ Ohio VAP    ☐ Drinking Water☐ DSD      ☐ NPDES

## Project Locations

☐ Detroit      ☐ New York☒ Other

Special Instructions

[illegible][illegible]

Relinquished By:	<input checked="" type="checkbox"/> Sampler	Date	Time
Signature/Organization		5-27-05	1400
Received By:		Date	Time
Signature/Organization		5-27-05	1400
Relinquished By:		Date	Time
Signature/Organization			
Received By:		Date	Time
Signature/Organization			

Relinquished By: Signature/Organization		Date 5/27/15		Time 1445	
Received By: Signature/Organization		Date 05/27/15		Time 1449	
Seal No.	Seal Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Initials	Notes. Temp on arrival 52		
Seal No.	Seal Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Initials			