Via Email

August 22, 2016

NC DEQ
Division of Waste Management
IHSB - REC Program
1601 Mail Service Center
Raleigh, North Carolina 27699-1601

Attn: Ms. Dianne Thomas

Re: Annual Remedial Progress Report
Trion, Inc. Site
Sanford, Lee County, North Carolina
Site ID No. NONCD0002843

Dear Dianne,

On behalf of Air Systems Components, Inc., H&H is pleased to submit this Annual Remedial Progress Report for the Trion, Inc. site in Sanford. Because of the stable plume and as outlined in the certified RAP, groundwater monitoring will continue to be conducted on an annual basis. The required certification pages are included in the document as Appendix A. Please let me know if you have any questions.

Sincerely,

Hart & Hickman, PC

Leonard C. Moretz

Leonard Moretz, PG, RSM
Senior Consultant

Attachment

Cc: Jeff Werwie – Johnson Controls, Inc. (via email)

Annual Groundwater Monitoring Report Trion, Inc. Facility

101 McNeill Road
Sanford, North Carolina

H&H Job No. JCI-001
August 19, 2016

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Annual Groundwater Monitoring Report
Trion, Inc. Facility
Sanford, North Carolina
H&H Job No. JCI-001

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Annual Groundwater Monitoring Report
Trion, Inc. Facility
Sanford, North Carolina
H&H Job No. JCI-001

1.0 Introduction and Site Background

This is the fourth Quarterly Groundwater Monitoring Report (GWMR) prepared on behalf of Air Systems Components, Inc. (ASCI) by Hart & Hickman, P.C. (H&H) for groundwater impacted at the Trion, Inc. (Trion) facility and property located at 101 McNeill Road in Sanford, Lee County, North Carolina (Site). The GWMR has been prepared in accordance with an Administrative Agreement (AA) for a voluntary Registered Environmental Consultant (REC)-directed assessment and remedial action executed on September 29, 2014-Directed Assessment and Remedial Action Pursuant to North Carolina General Statutes (N.C.G.S.) 130A-310.9(c) and 15A North Carolina Administrative Code (NCAC) 13C .0300 (Docket No. 10-SF-337) with Department of Environment and Natural Resources (DENR) for voluntary remedial action at the Site under North Carolina's REC Program. Under this AA and in accordance with the rules and requirements of the REC program, ASCI retained H&H as its REC.

The Site is located at 101 McNeill Road in Sanford, Lee County, North Carolina (latitude 35° 30' 52" N, longitude 79° 12' 51" W). The Site consists of approximately 25 acres with a 269,000 square-foot one-story building (Facility) located to the northeast of the intersection of U.S. Route 421 and McNeill Road in Sanford, North Carolina. Mixed industrial and residential properties surround the Site. The Facility consists of office space, a warehouse, and manufacturing space. A paved (asphalt and concrete) driveway, storage area, and loading dock area are present to the rear (east) of the Facility. Investment Recovery Services (IRS) currently owns the adjacent property behind and hydraulically downgradient of the Site. Immediately behind the IRS building is a railroad right of way. A grass/landscaped area and a large pond are located on the northern side of the Facility. The pond was reportedly used for irrigation and fishing purposes and was noted to exist prior to development of the Site. The intermittent stream running from the pond eastward continues in the adjacent IRS property. Figures 1 and 2 depict site location and permanent features of the Site.

Current operations at the Site include manufacturing, assembly, and warehousing of air purification equipment. Manufacturing activities consist of metal stamping, forming of parts, parts washing, painting, welding, air cleaning, unit assembly and packaging, and warehousing prior to shipping. Prior to 1966, the Site was reportedly vacant land. White Consolidated, Inc. (White), formerly Whiting Roberts Company, owned the Site from 1966 until 1984. White manufactured textile equipment at the Site during this period. Air purification equipment has been manufactured at the Site from 1984 to the present.

A remedial investigation (RI) and remedial action plan (RAP) were completed for the site under a separate AA between Fedders Corporation (a bankrupt entity) and the DENR REC Program. The Remedial Investigation (RI) was completed in November 2013 and the RAP was finalized in June 2014. Johnson Controls, Inc. purchased ASCI in June 2014 and as part of the purchase agreement ASCI entered into an AA to implement the RAP. The RI concluded that groundwater at the Site and adjacent property owned by IRS is impacted with low concentrations of the chlorinated volatile organic compound (CVOC) trichloroethene (TCE) and its degradation products cis,1,2-dichloroethene (cDCE), trans-DCE and vinyl chloride (VC); however, the plume is adequately defined. TCE was detected above NC DENR 2L Groundwater Standards; however, soil and subslab vapor sampling during Phase 1 and Phase 2 RI indicated that unsaturated soil is not impacted and vapor intrusion is not a concern. The RAP evaluated various remedial options and the selected remedy for groundwater remediation was monitored natural attenuation (MNA). The detailed site history and data are documented in numerous previous reports and therefore is not repeated here.

The objective of the GW-RAP is to bring TCE and its degradation products (cDCE, tDCE, and VC) below the current 2L groundwater standards for an industrial/commercial facility that does not supply private well drinking water or impact public water systems. This report summarizes results of the first annual groundwater sampling event since approval of the GW-RAP. H&H prepared this GWMR describing the methods and results of annual groundwater monitoring activities conducted in July 2016 at the Trion, Inc. facility. The required certifications from the Remediating Party (ASCI) and REC (H&H) are included as Appendix A.

2.0 Groundwater Monitoring

2.1 Groundwater Flow

Groundwater elevation data were collected from seventeen site monitoring wells (TMW-1 through TMW-5, MW-6 through MW-17, and DMW-1) on July 25, 2016. Groundwater at the site generally flows in a northeasterly direction following general surface topography. A surficial aquifer potentiometric surface map generated from the July 2016 gauging data is provided as Figure 3. These data are consistent with previously collected site data. A summary of current and historic groundwater elevation data is provided in Table 1.

2.2 Groundwater Quality Sampling

Groundwater sampling was conducted by H&H on July 25, 2016. Samples were collected from nine monitoring wells (TMW-1, TMW-4, MW-7, MW-8, MW-13, MW-14, MW-16, MW-17, and DMW-1) in accordance with the NCDENR-approved RAP, dated June 2014. Samples from each well were analyzed for volatile organic compounds (VOCs) by EPA Method 8260B, and MNA indicator parameters including: chlorides, sulfates, and nitrates by EPA Method 9056A, methane, ethane and ethane by EPA Method RSK-175, ferrous iron by HACH field test kit, and total organic carbon (TOC) by standard method 5310B.

Low-flow purging and sampling techniques were employed using a peristaltic pump and dedicated tubing. Field measurements of pH, specific conductivity, temperature, dissolved oxygen (DO), turbidity, pumping rate, and water level were recorded at five minute intervals. Purging was considered complete when stabilization of the field parameters occurred. Groundwater samples were then collected for VOC analysis using the “soda straw” method. Water generated during the purging and sampling process was contained in a 55-gallon drum and disposed of offsite by A&D Environmental at a properly permitted facility as non-hazardous waste. Groundwater sampling forms are provided in Appendix B.

Laboratory-supplied, properly preserved sample bottles were used for sample collection. A chain-of-custody record was completed for samples collected which included sample description, date

collected, time collected, matrix, sample container information, and analyses required. The chain-of-custody was signed by H&H and placed along with the samples in an iced cooler for delivery to Prism Laboratories, Inc. (Prism) of Charlotte, NC, a North Carolina-certified laboratory.

3.0 Sampling Results

Summaries of the July 2016 groundwater analytical results are included on Table 2 and depicted on Figure 4. For comparison purposes, historical groundwater data are included on Table 3. The laboratory analytical report and chain-of-custody documentation are provided in Appendix C. Appendix D presents contaminant concentration trend graphs (stoichiometry shown in molar concentrations to avoid density bias) for monitoring wells TMW-4, MW-8, MW-13, and MW-17, the only wells to exhibit VOC constituent concentrations above 2L Standards.

3.1 VOCs

TCE was detected above its NCAC 2L Groundwater Standard (2L Standard) in four monitoring wells during the July 2016 event, including source area monitoring well MW-8, and downgradient monitoring wells TMW-4, MW-13 and MW-17. The degradation product of TCE, cDCE, was detected above its 2L Standard in source area monitoring well MW-8 and downgradient monitoring well TMW-4 during the July 2016 sampling event. cDCE was detected below its 2L Standard in downgradient well MW-14. Upgradient monitoring well TMW-1 and downgradient monitoring wells MW-7, MW-16, and DMW-1 continued to be non-detect for CVOCs (Table 2).

Source area monitoring well MW-8 demonstrated an increase of TCE from 34 µg/L to 65 µg/L, which is above the 2L Standard of 3 µg/L. Concentrations of cDCE increased from 130 µg/L to 140 µg/L in MW-8, which is above the 2L Standard. TMW-4 contained stable concentration of TCE, and the concentration of cDCE increase from 62 µg/L to 72 µg/L, which is above the 2L Standard and higher than historical concentrations.

Downgradient monitoring well MW-17 demonstrated an increase of TCE from 4.6 µg/L to 6.7 µg/L, which is the third detection for any constituent above 2L standards in MW-17 since May 2012 when TCE was detected at 4.9 µg/L. The concentration of cDCE increased from 11 µg/L to 13 µg/L in MW-17, which is below the 2L Standard of 70 µg/L. The concentrations of TCE and cDCE increased slightly in monitoring well MW-13.

Continued cDCE production coupled with anoxic, reductive conditions suggests that reductive dechlorination is occurring onsite, though concentrations of TCE are increasing. The other intermediate degradation product CVOC trans-1,2-dichloroethene (tDCE) was not detected above 2L Standards in July 2016. With the exception of the cDCE concentration in TMW-4, the concentrations of VOCs detected during this sampling event were within historical concentrations.

Table 3 provides a Summary of Historical Groundwater Analytical Data and Appendix D presents graphs CVOC Concentrations vs. Time for select monitoring wells.

3.2 MNA Indicator Parameters

Dissolved oxygen (DO) measurements ranged from 0.19 mg/L (MW-7) to 0.99 mg/L (MW-13) indicating anoxic conditions. ORP ranged from 61.4 mV (MW-17) to -112.4 mV (TMW-1) which is indicative of anoxic conditions favorable for biodegradation of CVOCs (Table 4 and Table 5). Overall site ORP is consistent with historical data, demonstrating reducing conditions in and downgradient of the source area in wells MW-14, MW-16, MW-7, and MW-13.

Overall, site pH values remain optimal for reductive dechlorination. Values ranged from 6.33 (MW-17) to 8.88 (DMW-1). The highest pH value may be indicative of grout in the well.

As CVOCs biodegrade, chloride ions are released resulting in increased chloride concentrations. Chloride was detected in all monitoring wells ranging from 4.0 mg/L (DMW-1) to 18 mg/L (TMW-1). In downgradient monitoring wells MW-13, MW-16, MW-17, DMW-1 and source area monitoring well MW-8, chloride production remained stable. As chloride is highly soluble, migration from areas of high degradation can be seen through increased chloride levels in monitoring wells without CVOC detections, such as downgradient monitoring well MW-16. Downgradient monitoring well MW-17 maintained higher concentrations of chloride compared to source area wells. The presence of significant concentrations of chloride paired with continued production of cDCE demonstrates that reductive dechlorination is occurring within the plume.

Methanogenisis can facilitate co-metabolic degradation of TCE to VC. The fastest rates of anaerobic dechlorination typically occur under methanogenic conditions. Historically, methane

has only been detected during the October 2014 sampling event in one monitoring well (TMW-1) at 3.41 µg/L and the April 2015 sampling event in one monitoring well (MW-17) at 2.17 µg/L. In, July 2016, methane was detected in the monitoring wells TMW-1, TMW-4, and DMW-1 ranging from 2.12 µg/L (TMW-4) to 2.33 µg/L (TMW-1). Methane was also detected at levels below method detection limit in MW-17 and MW-7.

Ethene is the non-toxic end product of reductive dechlorination and is a strong indication of complete reductive dechlorination. In July 2016, ethene was detected in TMW-1, at levels below the method detection limit.

Total organic carbon (TOC) provides a carbon source to drive the reductive dechlorination of chlorinated solvents. TOC concentrations greater than 20 mg/L are considered ideal for biodegradation of chlorinated solvents. TOC was detected in eight monitoring wells ranging from 2.3 mg/L (MW-14) to 7.5 mg/L (MW-17). Downgradient monitoring well TMW-4 had detection of TOC below the method detection limit. TOC concentrations in downgradient monitoring wells have increased as compared to historic data. Low concentrations paired with increases in cDCE may indicate that previously detected TOC is being consumed through reductive dechlorination. Continued influx of TOC from upgradient may continue to drive dechlorination on site.

Ferrous iron is produced during iron reduction, early in the anaerobic process. Thus, increases in ferrous iron are indicative of anaerobic conditions favorable for reductive dechlorination. All monitoring wells were non-detect for ferrous iron.

Sulfide is the oxidized form of sulfate; therefore lowering concentrations of sulfate are indicative of reducing conditions. Sulfate reduction occurs after iron reduction, indicating lower redox conditions. Sulfate increased in all monitoring wells except MW-14 and TMW-1. Concentrations ranged from 12 mg/L to 1.5 mg/L. Sulfate concentrations less than 20 mg/L are conducive for reductive dechlorination.

In general, the reductive dechlorination indicator parameter data confirm that reductive conditions favorable for biodegradation of CVOCs are being established within the plume area and

dechlorination is occurring in and downgradient of the source area. Further detections of cDCE and VC will likely occur as the groundwater contaminants degrade and the site sequentially remediates under natural attenuation processes.

4.0 Quality Assurance/Quality Control

Samples were delivered to Prism Laboratories under standard chain-of-custody documentation. Samples were received by the lab in good condition and met holding times and preservation requirements.

Field quality control checks during the sampling event consisted of the following:

- One laboratory-filled trip blank accompanied the sample cooler containing samples for VOC analysis. The trip blank was analyzed for VOCs by EPA Method 8260.
- A duplicate sample was taken of MW-13.

The trip blank was non-detect for VOCs, except for a trace amount chloroform at 0.00053 mg/L. Refer to the laboratory analytical report in Appendix B for QA sample results.

5.0 Summary and Conclusions

Groundwater samples were collected from nine monitoring wells on July 25, 2016, as outlined in the approved RAP. The following summarizes the results of this sampling event:

- The generalized groundwater flow direction is northeasterly and is consistent with previously documented flow conditions.
- TCE was detected above its 2L Standard in four monitoring wells including two wells near the source area (MW-8 and TMW-4) and two wells on the adjacent downgradient property (MW-13 and MW-17).
- cDCE, the initial breakdown product of TCE, was detected above its 2L Standard in source area monitoring well MW-8 and near source area well TMW-4.
- Downgradient monitoring well MW-17 demonstrated TCE above its 2L standard for the third time since it was initially sampled in May 2012. The concentration increased since July 2015 from 4.6 µg/L to 6.7 µg/L. This detection was coupled with an increase in cDCE and a decrease in DO, suggesting that reductive dechlorination is ongoing.
- CVOC concentrations show an overall increasing trend, though TCE is degrading to cDCE in multiple wells.
- Conditions within the plume are anoxic and are expected to reduce. Increased concentrations of cDCE may occur as the site continues to degrade.
- The CVOC plume is stable as evidenced by the primary VOC, TCE, being degraded under natural attenuation processes, the generally decreasing CVOC constituent concentrations and positive MNA indicator parameters across the Site.

Based upon historic data, the data collected in July 2016, and in accordance with the approved RAP, annual monitoring will be conducted going forward as long as the plume remains stable or shrinks. The next sampling event will be in July 2017.

Tables

Table 1
Summary of Monitoring Well Construction and Groundwater Elevation Data
Trion, Inc. Facility
Sanford, North Carolina
H&H Job No. JCI-001

Date				03/01/11		05/12/11		05/17/12		06/20/13		10/23/14		01/13/15		04/22/15		07/21/15		07/25/16	
Well ID	TOC Elevation (ft)	Total Depth (ft below TOC)	Screen Interval (ft bgs)	Depth to Water (ft below TOC)	Groundwater Elevation (ft)	Depth to Water (ft below TOC)	Groundwater Elevation (ft)	Depth to Water (ft below TOC)	Groundwater Elevation (ft)	Depth to Water (ft below TOC)	Groundwater Elevation (ft)	Depth to Water (ft below TOC)	Groundwater Elevation (ft)	Depth to Water (ft below TOC)	Groundwater Elevation (ft)	Depth to Water (ft below TOC)	Groundwater Elevation (ft)	Depth to Water (ft below TOC)	Groundwater Elevation (ft)	Depth to Water (ft below TOC)	Groundwater Elevation (ft)
TMW-1	283.63	64	49-64	8.98	274.65	9.32	274.31	8.12	275.51	8.20	275.43	8.38	275.25	4.44	279.19	6.23	277.40	8.53	275.10	9.66	273.97
TMW-2	274.34	23	8-23	6.89	267.45	7.78	266.56	7.92	266.42	6.00	268.34	NM	--	3.41	270.93	3.18	271.16	5.37	268.97	5.48	268.86
TMW-3	275.48	40	25-40	8.24	267.24	7.68	267.80	7.57	267.91	7.16	268.32	8.27	267.21	7.31	268.17	6.73	268.75	7.58	267.90	7.64	267.84
TMW-4	271.88	40	25-40	6.66	265.22	6.42	265.46	5.94	265.94	5.23	266.65	5.63	266.25	5.38	266.50	5.13	266.75	5.26	266.62	6.31	265.57
TMW-5	276.18	40	25-40	NM	--	6.21	269.97	5.75	270.43	4.95	271.23	6.64	269.54	5.96	270.22	5.09	271.09	5.51	270.67	9.60	266.58
MW-6	272.07	25	15-25	7.16	264.91	8.67	263.40	6.44	265.63	6.34	265.73	6.18	265.89	6.08	265.99	3.43	268.64	4.67	267.40	5.12	266.95
MW-7[1]	271.55	60	55-60	6.88	264.67	5.46	266.09	5.32	266.23	4.87	266.68	5.57	265.98	5.04	266.51	4.65	266.90	5.32	266.23	6.37	265.18
MW-8	272.42	35	20-35	6.53	265.89	5.99	266.43	5.76	266.66	5.01	267.41	5.60	266.82	5.54	266.88	4.61	267.81	5.40	267.02	5.30	267.12
MW-9	280.09	40	25-40	13.76	266.33	13.75	266.34	13.44	266.65	12.71	267.38	NM	--	12.95	267.14	12.68	267.41	13.05	267.04	13.10	266.99
MW-10	273.96	29	14-29	9.56	264.40	9.51	264.45	9.04	264.92	8.45	265.51	8.25	265.71	8.01	265.95	8.04	265.92	8.01	265.95	7.63	266.33
MW-11	280.43	38	23-38	12.88	267.55	12.36	268.07	12.41	268.02	11.81	268.62	12.67	267.76	12.30	268.13	11.13	269.30	12.01	268.42	12.19	268.24
MW-12	280.45	50	35-50	13.31	267.14	12.67	267.78	12.56	267.89	12.23	268.22	13.03	267.42	12.00	268.45	11.87	268.58	12.46	267.99	12.47	267.98
MW-13	273.05	50	35-50	20.20	252.85	18.22	254.83	19.08	253.97	18.13	254.92	20.03	253.02	18.24	254.81	16.53	256.52	19.33	253.72	18.79	254.26
MW-14	271.44	55	40-55	11.99	259.45	5.78	265.66	5.78	265.66	5.53	265.91	9.46	261.98	5.53	265.91	5.33	266.11	6.30	265.14	5.47	265.97
MW-15	266.80	50	35-50	5.31	261.49	3.94	262.86	3.50	263.30	3.69	263.11	6.32	260.48	NM	--	2.47	264.33	5.49	261.31	5.00	261.80
MW-16	266.39	50	35-50	NM	--	NM	--	8.77	257.62	7.89	258.50	11.23	255.16	7.52	258.87	6.40	259.99	10.59	255.80	9.62	256.77
MW-17	264.63	75	55-75	NM	--	NM	--	5.36	259.27	5.24	259.39	7.57	257.06	4.96	259.67	5.13	259.50	6.92	257.71	7.54	257.09
DMW-1[2]	273.35	100	80-100	NM	--	NM	--	21.12	252.23	21.25	252.10	24.38	248.97	20.81	252.54	20.18	253.17	23.92	249.43	23.95	249.40

Notes:
TOC = top of casing
bgs = below ground surface
NM = not measured
MW-7[1] - Type III monitoring well with outer casing set at 48 ft below TOC.
DMW-1[2] - Type III monitoring well with outer casing set at 75 ft below TOC.

Table 2
Summary of Groundwater Analytical Data (July 2016)
Trion, Inc. Facility
Sanford, North Carolina
H&H Job No. JCI-001

Well ID	Sample Date	VOCs (8260B)												
		Acetone	Chloroform	Chloromethane	Trichlorofluoromethane	1,2-Dichlorobenzene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	Toluene	1,2,4-Trichlorobenzene	Vinyl Chloride	Methyl Ethyl Ketone (2-Butanone)
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Screening Criteria (1)		6,000	70	3	2,000	20	70	100	0.7	3	600	70	0.03	4000
Screening Criteria (2)		20,000,000	35	220	160	2,300	NS	140	49	4.4	16,000	30	25	1880000
TMW-1	07/25/16	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
TMW-4	07/25/16	6.2	<0.50	<0.50	<0.50	<0.50	**72**	5.6	<0.50	**13**	<0.50	<1.0	<0.50	<5.0
MW-7	07/25/16	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
MW-8	07/25/16	<5.0	<0.50	<0.50	<0.50	<0.50	**140**	13	<0.50	**65**	<0.50	<1.0	<0.50	<5.0
MW-13	07/25/16	<5.0	<0.50	<0.50	<0.50	<0.50	32	2.7	<0.50	**19**	<0.50	<1.0	<0.50	<5.0
MW-14	07/25/16	6.9	<0.50	<0.50	<0.50	<0.50	0.54	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
MW-16	07/25/16	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
MW-17	07/25/16	<5.0	<0.50	<0.50	<0.50	<0.50	13	1.8	<0.50	**6.7**	<0.50	<1.0	<0.50	<5.0
DMW-1	07/25/16	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0

Notes:
1) Analytical results compared to NC DENR 15A NCAC 2L Groundwater Standards, revised April 1, 2013
2) Analytical results compared to NC DENR Inactive Hazardous Sites Branch (IHSB) Non-Residential
Vapor Intrusion Groundwater Screening Level, revised March 2016
Only those compounds detected in at least one sample are shown above
Bold indicates an exceedance of the 2L Groundwater screening criteria referenced in note 1
Shaded indicates an exceedance of the IHSB screening criteria referenced in note 2
Method number follows parameter in parenthesis
VOCs= Volatile Organic Compound
NA = Not Analyzed, NS = Screening criteria not specified

Table 3
Summary of Historical Groundwater Analytical Data
Trion, Inc. Facility
Sanford, North Carolina
H&H Job No. JCI-001

Well ID	Sample Date	VOCs (8260B)												
		Acetone	Chloroform	Chloromethane	Trichlorofluoromethane	1,2-Dichlorobenzene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	Toluene	1,2,4-Trichlorobenzene	Vinyl Chloride	Methyl Ethyl Ketone (2-Butanone)
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Screening Criteria (1)		6,000	70	3	2,000	20	70	100	0.7	3	600	70	0.03	4000
Screening Criteria (2)		20,000,000	35	220	160	2,300	NS	140	49	4.4	16,000	30	25	1880000
TMW-1	02/26/08	<25.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0
	09/10/09	<25.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0
	03/01/11	6.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	10/23/14	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	01/13/15	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	04/22/15	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	07/21/15	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	07/25/16	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
TMW-4	02/26/08	<25.0	<1.0	<1.0	<1.0	<1.0	30.2	2.0	<1.0	**9.5**	<1.0	<1.0	<0.50	<5.0
	03/13/08	<25.0	<1.0	<1.0	<1.0	<1.0	35.6	2.9	<1.0	**10.9**	<1.0	<1.0	<0.50	<5.0
	09/10/09	<25.0	<1.0	<1.0	<1.0	<1.0	48.0	3.2	<1.0	**13.3**	<1.0	<1.0	<0.50	<5.0
	03/02/11	<5.0	<0.50	<0.50	<0.50	<0.50	49	3.6	<0.50	**10**	<0.50	<1.0	<0.50	<5.0
	10/23/14	<5.0	<0.50	<0.50	<0.50	<0.50	62	3.7	<0.50	**12**	<0.50	<1.0	<0.50	<5.0
	01/13/15	<5.0	<0.50	<0.50	<0.50	<0.50	67	4.3	<0.50	**15**	<0.50	<1.0	<0.50	<5.0
	04/22/15	<5.0	<0.5	<0.50	<0.50	<0.50	67	4.1	<0.50	**13**	<0.50	<1.0	<0.50	<5.0
	07/21/15	<5.0	<0.50	<0.50	<0.50	<0.50	62	3.8	<0.50	**13**	<0.50	<1.0	<0.50	<5.0
	07/25/16	6.2	<0.50	<0.50	<0.50	<0.50	**72**	5.6	<0.50	**13**	<0.50	<1.0	<0.50	<5.0
MW-7	04/23/08	2.9 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.69 J	<1.0	<1.0	<1.0	<0.50	<5.0
	09/10/09	<25.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0
	03/02/11	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	10/23/14	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	01/13/15	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	04/22/15	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	07/21/15	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	07/25/16	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
MW-8	04/23/08	<25.0	<1.0	<1.0	<1.0	0.56 J	38.9	2.9	<1.0	**12.7**	<1.0	3.9	<0.50	<5.0
	09/10/09	<25.0	0.14 J	<1.0	<1.0	<1.0	**113**	9.5	<1.0	**61.6**	<1.0	<1.0	<0.50	<5.0
	03/01/11	<5.0	<0.50	<0.50	<0.50	<0.50	**160**	12	<0.50	**61**	<0.50	<1.0	<0.50	<5.0
	06/20/13	<5.0	<0.50	<0.50	<0.50	<0.50	**160**	13	<0.50	**72**	<0.50	<1.0	<0.50	<5.0
	10/23/14	<5.0	<0.50	<0.50	<0.50	<0.50	**130**	10	<0.50	**55**	<0.50	<1.0	<0.50	<5.0
	01/13/15	<5.0	<0.50	0.65	<0.50	<0.50	**130**	10	<0.50	**62**	<0.50	<1.0	<0.50	<5.0
	04/22/15	<5.0	<0.50	<0.50	<0.50	<0.50	**140**	11	<0.50	**49**	<0.50	<1.0	<0.50	<5.0
	07/21/15	<5.0	<0.50	<0.50	<0.50	<0.50	**130**	8.2	<0.50	**34**	<0.50	<1.0	<0.50	6.5
	07/25/16	<5.0	<0.50	<0.50	<0.50	<0.50	**140**	13	<0.50	**65**	<0.50	<1.0	<0.50	<5.0
MW-13	03/02/11	<5.0	<0.50	<0.50	<0.50	<0.50	37	1.8	<0.50	**30**	<0.50	<1.0	<0.50	<5.0
	05/12/11[4]	<5.0	<0.50	<0.50	<0.50	<0.50	39	1.8	<0.50	**34**	<0.50	<1.0	<0.50	<5.0
	06/20/13	<5.0	<0.50	<0.50	<0.50	<0.50	40	2.0	<0.50	**36**	<0.50	<1.0	<0.50	<5.0
	10/23/14	<5.0	0.65	<0.50	<0.50	<0.50	47	1.8	<0.50	**25**	<0.50	<1.0	<0.50	<5.0
	01/13/15	<5.0	0.65	<0.50	<0.50	<0.50	45	1.7	<0.50	**29**	<0.50	<1.0	<0.50	<5.0
	04/22/15	<5.0	<0.5	<0.50	<0.50	<0.50	26	0.99	<0.50	**17**	<0.50	<1.0	<0.50	<5.0
	07/21/15	<5.0	<0.50	<0.50	<0.50	<0.50	27	0.98	<0.50	**17**	<0.50	<1.0	<0.50	<5.0
	07/25/16	<5.0	<0.50	<0.50	<0.50	<0.50	32	2.7	<0.50	**19**	<0.50	<1.0	<0.50	<5.0
MW-14	03/02/11	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	06/20/13	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	10/23/14	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	01/13/15	<5.0	<0.50	0.94	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	04/22/15	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	07/21/15	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	07/25/16	6.9	<0.50	<0.50	<0.50	<0.50	0.54	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
MW-16	05/18/12	41.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	10/23/14	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	01/13/15	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	04/22/15	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	07/21/15	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	07/25/16	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
MW-17	05/18/12	<5.0	<0.50	<0.50	<0.50	<0.50	8.1	<0.50	<0.50	**4.9**	<0.50	<1.0	<0.50	<5.0
	06/20/13	<5.0	<0.50	<0.50	<0.50	<0.50	5.3	<0.50	<0.50	2.7	<0.50	<1.0	<0.50	<5.0
	10/23/14	<5.0	<0.50	<0.50	<0.50	<0.50	5.8	<0.50	<0.50	2.4	<0.50	<1.0	<0.50	<5.0
	01/13/15	<5.0	<0.50	<0.50	<0.50	<0.50	4.8	<0.50	<0.50	2.1	<0.50	<1.0	<0.50	<5.0
	04/22/15	<5.0	<0.50	<0.50	<0.50	<0.50	21	<0.50	<0.50	**13**	<0.50	<1.0	<0.50	<5.0
	07/21/15	<5.0	<0.50	<0.50	<0.50	<0.50	11	<0.50	<0.50	**4.6**	<0.50	<1.0	<0.50	<5.0
	07/25/16	<5.0	<0.50	<0.50	<0.50	<0.50	13	1.8	<0.50	**6.7**	<0.50	<1.0	<0.50	<5.0
DMW-1	05/18/12	7.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	06/20/13	**6,500**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	<1.0	**0.70**	<5.0
	08/02/13	**11,000**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	**0.52**	<5.0
	08/22/13	1,900	<25	<12	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0
	09/11/13	**7,780**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	1.50	<1.00	<5.0
	12/11/13	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.83	<0.50	<0.50	<0.50	<5.0
	12/18/13[5]	<5.0	4.8	<0.50	<0.50	<0.50	0.65	<0.50	<0.50	1.8	<0.50	<0.50	<0.50	<5.0
	10/23/14	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	01/13/15	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	04/22/15	<5.0	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	07/21/15	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0
	07/25/16	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0

Notes:
1) Analytical results compared to NC DENR 15A NCAC 2L Groundwater Standards, revised April 1, 2013
2) Analytical results compared to NC DENR IHSB Industrial Vapor Intrusion Preliminary Acceptable Groundwater Concentrations, revised March 2016
3) Sample collected from TMW-5 on 5/12/11 due to well obstruction during 3/1/11 - 3/2/11 sampling event
4) Sample collected from MW-13 on 5/12/11 to confirm concentrations detected during 3/2/11 sampling event
5) Sample collected on 12/18/13 (DMW-1), trip blank contained 1.1 (µg/L) chloroform
Only those compounds detected in at least one sample are shown above
Bold indicates an exceedance of the 2L Groundwater screening criteria referenced in Note 1
Shaded indicates an exceedance of the IHSB screening criteria referenced in Note 2
Method number follows parameter in parenthesis
VOCs= Volatile Organic Compounds
NA = Not Analyzed, NS = Screening criteria not specified

Table 4
Summary of MNA Data (July 2016)
Trion, Inc. Facility
Sanford, North Carolina
H&H Job No. JCI-001

Well ID	Sample Date	MNA Parameters											
		Dissolved Oxygen (mg/L)	pH (standard units)	Conductivity (µs/cm^2)	ORP (mV)	Chloride (mg/L)	Ethane (µg/L)	Ethene (µg/L)	Methane (µg/L)	Nitrate as N (mg/L)	Sulfate (mg/L)	Ferrous Iron (mg/L)	Total Organic Carbon (mg/L)
TMW-1	07/25/16	0.20	7.76	417	-112.4	18	<0.110	0.456J	2.33	0.11	12	0.0	6.5
TMW-4	07/25/16	0.31	7.04	397	-20.0	11	<0.110	<0.150	2.12	0.16	1.5	0.0	1.7J
MW-7	07/25/16	0.19	7.89	329	-104.8	5.4	<0.110	<0.150	0.722J	<0.10	2.1	0.0	3.3
MW-8	07/25/16	0.27	7.23	421	14.6	14	<0.110	<0.150	<0.435	0.24	2.0	0.0	3
MW-13	07/25/16	0.99	7.48	362	54.6	13	<0.110	<0.150	<0.435	0.35	4.8	0.0	2.6
MW-14	07/25/16	0.30	8.07	296	-43.7	4.6	<0.110	<0.150	<0.435	<0.10	4.0	0.0	2.3
MW-16	07/25/16	0.22	7.11	273	4.9	8.2	<0.110	<0.150	<0.435	0.13	2.2	0.0	3.9
MW-17	07/25/16	0.22	6.33	338	61.4	16	<0.110	<0.150	0.729J	0.47	5.9	0.0	7.5
DMW-1	07/25/16	0.58	8.88	288	-73.4	4.0	<0.110	<0.150	2.13	<0.10	1.7	0.0	3.1

Notes:

1) Dissolved oxygen, pH, conductivity, and ORP stabilization parameters obtained from YSI 556.
Ferrous iron obtained from HACH field test kit.
Total Organic Carbon was analyzed by Standard Method 5310B; Methane, Ethane, Ethene by Method RSK-175; Chloride, Sulfate, and Nitrate as N by Method 9056A.

2) TMW-1 is upgradient of the plume and is shown for comparison to background levels.

NA = Not Analyzed, ND= Not Detected

MNA= Monitored Natural Attenuation

Table 5
Summary of Historical MNA Data
Trion, Inc. Facility
Sanford, North Carolina
H&H Job No. JCI-001

Well ID	Sample Date	MNA Parameters											
		Dissolved Oxygen (mg/L)	pH (standard units)	Conductivity (µs/cm^2)	ORP (mV)	Chloride (mg/L)	Ethane (µg/L)	Ethene (µg/L)	Methane (µg/L)	Nitrate as N (mg/L)	Sulfate (mg/L)	Ferrous Iron (mg/L)	Total Organic Carbon (mg/L)
TMW-1	06/20/13	3.57	7.12	366	-3.1	13	<1.00	<1.00	<5.00	0.05	14	NA	4.2
	10/23/14	0.46	7.47	427	-72.1	13	<0.087	0.760J	3.41	<0.10	11	0	3.1
	01/13/15	7.35	8.01	245	150.5	23	<0.087	<0.071	<0.435	0.44	15	0.2	14.4
	04/22/15	0.36	7.65	386	16.0	24	<0.110	0.263J	1.27J	0.26	15	0.2	9.3
	07/21/15	0.22	7.76	481	-202.2	21	<0.110	0.262J	1.680J	0.18	12	0.5	6.2
	07/25/16	0.2	7.76	417	-112.4	18	<0.110	0.456J	2.33	0.11	12	0	6.5
TMW-4	03/02/11	1.35	7.35	417	28.6	NA	NA	NA	NA	NA	NA	NA	NA
	10/23/14	0.51	7.28	402	-30.2	10	<0.087	<0.071	<0.435	0.13	<1.0	0	0.78J
	01/13/15	3.28	6.99	266	153.3	11	<0.087	<0.071	<0.435	0.17	<1.0	0.4	3.4
	04/22/15	1.18	7.04	349	45.6	NA	<0.110	<0.150	<0.435	NA	NA	0.0	0.55J
	07/21/15	0.53	6.90	372	-12.6	11	<0.110	<0.150	<0.435	<0.10	<1.0	0.0	0.52J
	07/25/16	0.31	7.04	397	-20	11	<0.110	<0.150	2.12	0.16	1.5	0.0	1.7J
MW-7	03/02/11	1.69	8.12	340	38.6	NA	NA	NA	NA	NA	NA	NA	NA
	10/23/14	0.23	7.65	289	-58.9	5.0	<0.087	0.305J	<0.435	<0.10	<1.0	0.5	0.30U
	01/13/15	3.64	8.09	260	161.3	5.3	<0.087	<0.071	<0.435	0.31	2.9	0	2.4
	04/22/15	0.43	7.76	890	-96.2	5.1	<0.110	<0.150	0.463J	<0.10	1.0	0.3	0.33J
	07/21/15	0.30	7.68	310	-154.2	5.2	<0.110	<0.150	0.517J	<0.10	<1.0	0.0	<0.30
	07/25/16	0.19	7.89	329	-104.8	5.4	<0.110	<0.150	0.722J	<0.10	2.1	0.0	3.3
MW-8	06/20/13	0.42	6.95	403	33.2	13	<1.00	<1.00	<5.00	0.26	2.2	0.25	1.1
	10/23/14	0.55	7.01	364	48.0	13	<0.087	<0.071	<0.435	0.22	1.0	0	0.30U
	01/13/15	3.01	7.30	360	147.0	13	<0.087	<0.071	<0.435	0.19	1.1	0.0	3.1
	04/22/15	0.57	7.27	457	42.1	13	<0.110	<0.150	<0.435	0.17	1.8	0.2	0.71J
	07/21/15	0.40	7.32	484	8.6	13	<0.110	<0.150	<0.435	0.14	<1.0	0.0	<0.30
	07/25/16	0.27	7.23	421	14.6	14	<0.110	<0.150	<0.435	0.24	2.0	0.0	3.0
MW-13	03/02/11	4.60	7.31	434	48.1	NA	NA	NA	NA	NA	NA	NA	NA
	05/12/11	2.18	6.27	454	142.5	NA	NA	NA	NA	NA	NA	NA	NA
	06/20/13	2.60	8.48	323	15.2	15	<1.00	<1.00	<5.00	0.52	10	ND	1.0
	10/23/14	3.55	8.04	210	-69.2	16	<0.087	<0.071	<0.435	0.47	7.1	0.0	1.1
	01/13/15	2.58	8.22	232	112.8	16	<0.087	<0.071	<0.435	0.44	7.7	0.0	1.7
	04/22/15	0.77	7.53	344	-185.3	12	<0.110	<0.150	<0.435	0.27	4.7	0.0	0.43J
	07/21/15	1.23	7.32	354	-62.5	13	<0.110	<0.150	<0.435	0.31	3.4	0.0	0.44J
	07/25/16	0.99	7.48	362	54.6	13	<0.110	<0.150	<0.435	0.35	4.8	0.0	2.6
MW-14	03/02/11	5.21	8.14	351	45.1	NA	NA	NA	NA	NA	NA	NA	NA
	06/20/13	1.09	9.06	236	15.2	NA	NA	NA	NA	NA	NA	ND	NA
	10/23/14	3.34	9.82	219	82.5	4.1	<0.087	0.677J	<0.435	0.27	5.1	0.2	2.8
	01/13/15	6.03	11.79	398	-16.8	4.4	<0.087	0.699J	0.785J	0.36	6	0.0	1.7
	04/22/15	0.27	7.85	306	-284.0	4.3	<0.110	0.188J	<0.435	<0.10	1.0	0.0	<0.30
	07/21/15	0.19	8.36	386	-86.5	4.3	<0.110	0.224J	<0.435	0.14	9.8	0.25	<0.30
	07/25/16	0.30	8.07	296	-43.7	4.6	<0.110	<0.150	<0.435	<0.10	4	0.00	2.3
MW-16	05/18/12	1.31	7.61	301	6.4	NA	NA	NA	NA	NA	NA	NA	NA
	10/23/14	0.35	6.73	223	261.2	7.7	<0.087	<0.071	<0.435	0.13	<1.0	1.0	1.8
	01/13/15	4.29	7.59	244	144.6	7.7	<0.087	<0.071	<0.435	0.10	<1.0	0.0	2.6
	04/22/15	0.85	6.97	304	15.9	8.3	<0.110	0.231J	<0.435	0.11	2.6	0.0	<0.30
	07/21/15	0.33	6.93	296	-86.5	7.7	<0.110	<0.150	1.260J	<0.10	<1.0	0.0	0.31J
	07/25/16	0.22	7.11	273	4.9	8.2	<0.110	<0.150	<0.435	0.13	2.2	0.0	3.9
MW-17	05/18/12	1.48	6.93	395	37.5	NA	NA	NA	NA	NA	NA	NA	NA
	06/20/13	3.67	6.27	195	153.7	8.8	<1.00	<1.00	<5.00	0.66	12	0.25	2.4
	10/23/14	1.89	5.83	195	96.0	9.7	<0.087	<0.071	<0.435	1.1	8.2	0.0	3.1
	01/13/15	2.28	6.25	178	165.6	9.5	<0.087	<0.071	<0.435	0.74	9.1	0.0	2.9
	04/22/15	0.71	6.48	354	102.9	16	<0.110	<0.150	2.17	0.24	3.8	0.0	0.47J
	07/21/15	0.31	6.80	527	24.1	14	<0.110	<0.150	<0.435	0.27	3.6	0.0	0.46J
	07/25/16	0.22	6.33	338	61.4	16	<0.110	<0.150	0.729J	0.47	5.9	0.0	7.5

Table 5
Summary of Historical MNA Data
Trion, Inc. Facility
Sanford, North Carolina
H&H Job No. JCI-001

Well ID	Sample Date	MNA Parameters											
		Dissolved Oxygen (mg/L)	pH (standard units)	Conductivity (µs/cm^2)	ORP (mV)	Chloride (mg/L)	Ethane (µg/L)	Ethene (µg/L)	Methane (µg/L)	Nitrate as N (mg/L)	Sulfate (mg/L)	Ferrous Iron (mg/L)	Total Organic Carbon (mg/L)
DMW-1	05/18/12	3.31	11.84	826	-96.1	NA	NA	NA	NA	NA	NA	NA	NA
	06/20/13	6.13	11.11	452	-55.8	NA	NA	NA	NA	NA	NA	ND	NA
	08/02/13	6.66	10.07	426	-91.2	NA	NA	NA	NA	NA	NA	NA	NA
	08/22/13	4.22	10.80	397	-68.5	NA	NA	NA	NA	NA	NA	NA	NA
	09/11/13	5.31	11.06	413	-3.5	NA	NA	NA	NA	NA	NA	NA	NA
	10/23/14	6.19	8.47	250	130.0	3.6	<0.087	<0.071	<0.435	0.13	1.3	0.0	0.30U
	01/13/15	2.37	8.58	223	125.4	3.5	<0.087	<0.071	<0.435	0.12	1.5	0.0	1.9
	04/22/15	0.38	9.31	290	-281.7	3.5	<0.110	0.240J	<0.435	0.14	2.6	0.0	<0.30
	07/21/15	0.29	8.82	271	-140.5	3.6	<0.110	<0.150	0.984J	<0.10	<1.0	0.0	0.69J
	07/25/16	0.58	8.88	288	-73.4	4.0	<0.110	<0.150	2.13	<0.10	1.7	0.0	3.1

Notes:

1) DMW-1 purged and re-developed on 8/2/2013

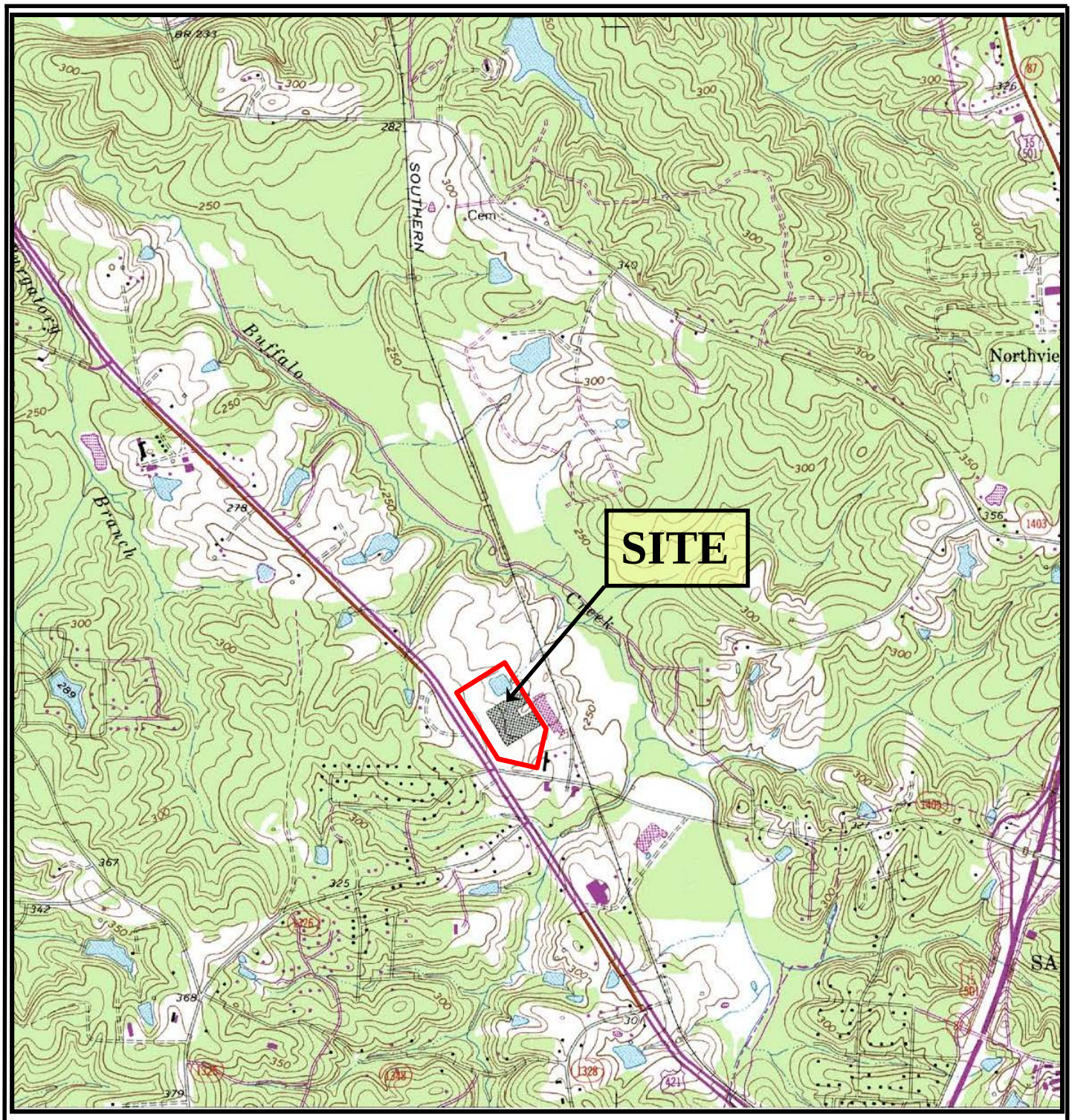
2) Dissolved oxygen, pH, conductivity, and ORP stabilization parameters obtained from YSI 556.
Ferrous iron obtained from HACH field test kit.
Total Organic Carbon was analyzed by Standard Method 5310B; Methane, Ethane, Ethene by Method RSK-175; Chloride, Sulfate, and Nitrate as N by Method 9056A.

3) TMW-1 is upgradient of the plume and is shown for comparison to background levels.

NA = Not Analyzed, ND= Not Detected

MNA= Monitored Natural Attenuation

Figures



N

0 2000 4000

APPOXIMATE SCALE IN FEET

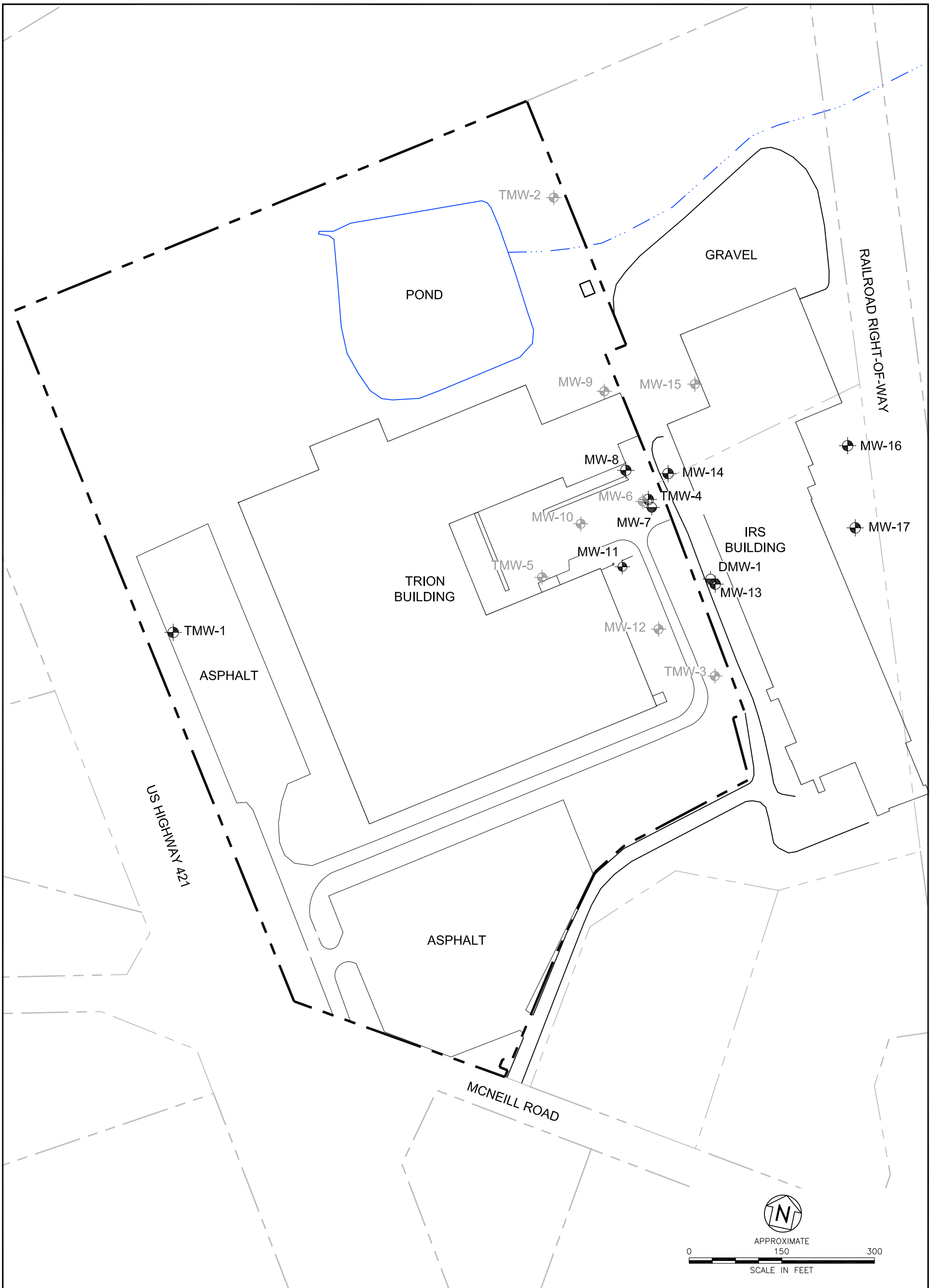
U.S.G.S. QUADRANGLE MAP

COLON, NC 1970, REVISED 1981

QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE	**SITE LOCATION MAP**
PROJECT	**TRION, INC. FACILITY** 101 MCNEILL ROAD SANFORD, NORTH CAROLINA
hart hickman SMARTER ENVIRONMENTAL SOLUTIONS	3334 HILLSBOROUGHSTREET RALEIGH, NORTH CAROLINA (919) 847-4241

DATE:	08-09-16	REVISION NO:	0
JOB NO:	JCI-001	FIGURE NO:	1



LEGEND

- SITE PROPERTY
- PROPERTY PARCEL
- INTERMITTENT STREAM
- TYPE II MONITORING WELL
- TYPE III MONITORING WELL
- NOT IN MONITORING NETWORK

TITLE

SITE MAP

PROJECT

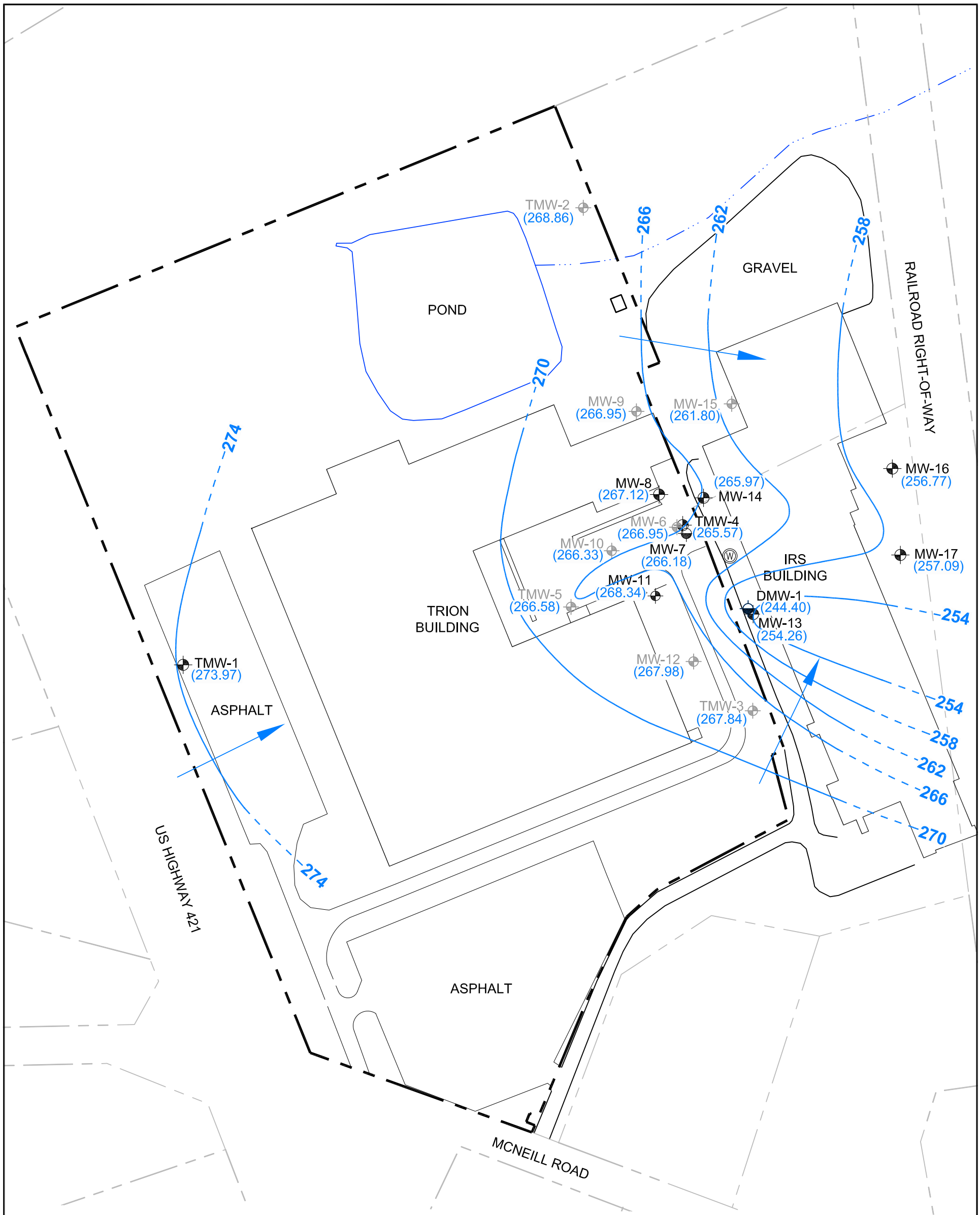
TRION, INC. FACILITY
101 MCNEILL ROAD
SANFORD, NORTH CAROLINA

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)
License # C-1269 / #C-245 Geology

DATE: 8–17–16	REVISION NO. 0
JOB NO. JCI–001	FIGURE NO. 2

\\hhfs01.harthickman.local\masterfiles\AAA-Master Projects\Johnson Controls Inc - JCI\July 2016 annual sampling\Figures\Figures 2-5.dwg, FIG 2, 8/17/2016 2:08:00 PM, zbarlow



LEGEND

- TYPE II MONITORING WELL
- TYPE III MONITORING WELL
- WATER SUPPLY WELL
- 267.84 GROUNDWATER ELEVATION
- GENERALIZED GROUNDWATER FLOW DIRECTION
- 274 GROUNDWATER ELEVATION CONTOUR
- SITE PROPERTY
- PROPERTY PARCEL
- INTERMITTENT STREAM

N

APPROXIMATE
0 150 300
SCALE IN FEET

NOTE:

MONITORING WELLS GAUGED ON 7/25/2016.

TITLE
GROUNDWATER TABLE ELEVATION CONTOUR MAP

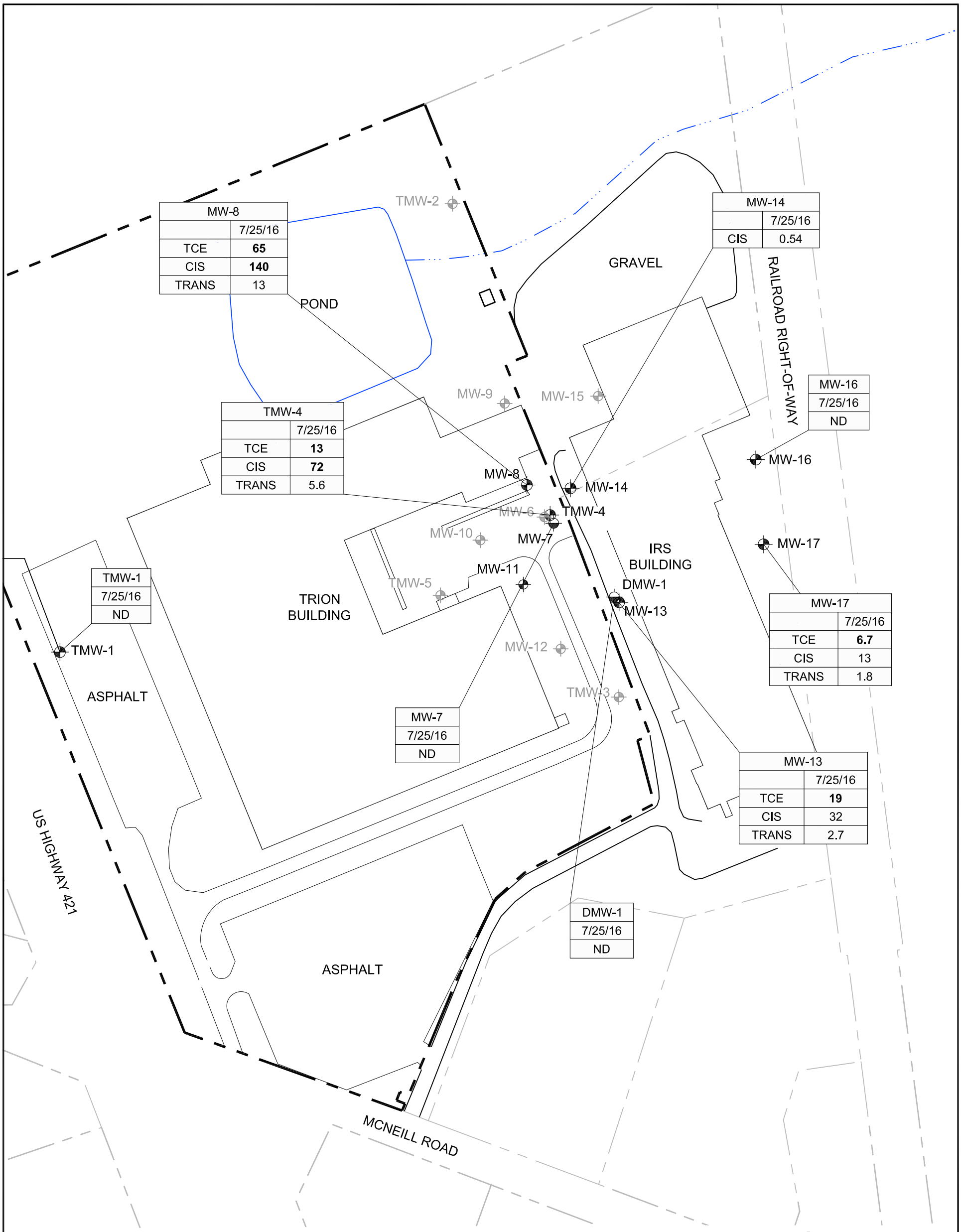
PROJECT
TRION, INC. FACILITY
101 MCNEILL ROAD
SANFORD, NORTH CAROLINA

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)
License # C-1269 / #C-245 Geology

DATE: 8–17–16	REVISION NO. 0
JOB NO. JCI–001	FIGURE NO. 3

\\hhfs01.harthickman.local\masterfiles\AAA-Master Projects\Johnson Controls Inc - JCI\July 2016 annual sampling\Figures\Figures 2-5.dwg, FIG 3, 8/17/2016 2:25:47 PM, zbarlow



LEGEND

- TYPE II MONITORING WELL
- TYPE III MONITORING WELL
- NOT INCLUDED IN MONITORING NETWORKING.
- SITE PROPERTY
- PROPERTY PARCEL
- INTERMITTENT STREAM

TMW-4	
	7/25/16
TCE	**13**
CIS	**72**
TRANS	5.6

SAMPLE IDENTIFICATION
SAMPLE DATE
CONSTITUENT
ANALYTICAL RESULT (µg/L)

DMW-1
7/25/16
ND

NON DETECT

N

APPROXIMATE
0 150 300
SCALE IN FEET

NOTES:

1. GROUNDWATER SAMPLES COLLECTED ON 7-25-16.
2. TCE = TRICHLOROETHENE
3. CIS = CIS-1,2-DICHLOROETHENE
4. TRANS = TRANS-1,2-DICHLOROETHENE
5. VC = VINYL CHLORIDE
6. **BOLD** VALUES EXCEED 2L STANDARDS

TITLE
GROUNDWATER CONTAMINANT CONCENTRATION MAP JULY 2016

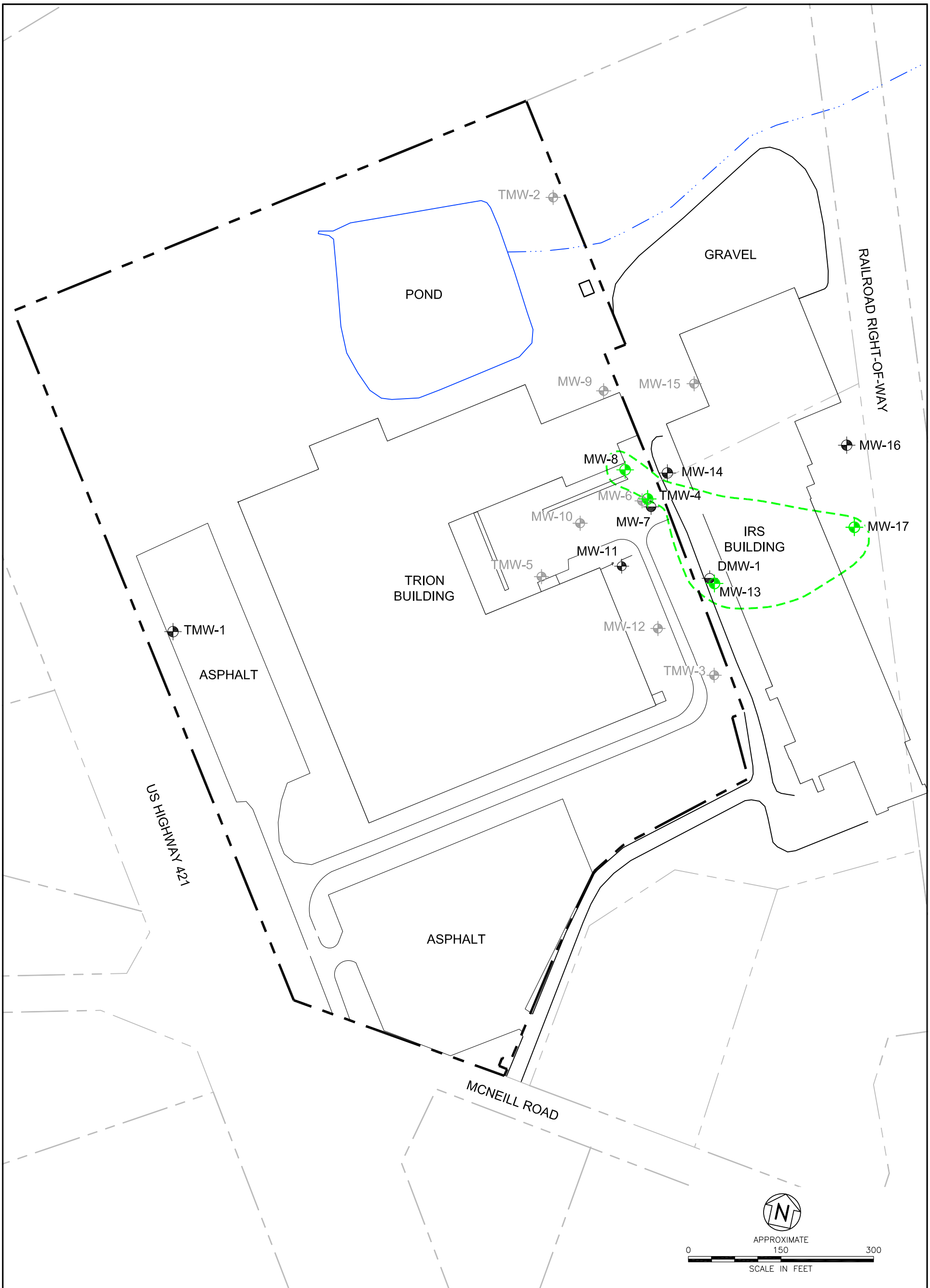
PROJECT
TRION, INC. FACILITY
101 MCNEILL ROAD
SANFORD, NORTH CAROLINA

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)
License # C-1269 / #C-245 Geology

DATE: 8–19–16	REVISION NO. 0
JOB NO. JCI–001	FIGURE NO. 4

S:\AAA-Master Projects\Johnson Controls Inc - JCI\July 2016 annual sampling\Figures\Figures 2-5.dwg, FIG 4, 8/19/2016 1:52:40 PM, zbarlow



LEGEND

- SITE PROPERTY
- PROPERTY PARCEL
- INTERMITTENT STREAM
- TYPE II MONITORING WELL
- TYPE III MONITORING WELL
- CVOC PLUME ABOVE 2L STANDARDS
- WELL IMPACTED BY CVOCs ABOVE 2L STANDARDS

NOTES:

1. GROUNDWATER SAMPLES WERE COLLECTED JULY 25, 2016.
2. CVOC - CHLORINATED VOLATILE ORGANIC COMPOUNDS

TITLE
OBSERVED EXTENT OF CVOC PLUME >2L STANDARDS JULY 2016

PROJECT
TRION, INC. FACILITY
101 MCNEILL ROAD
SANFORD, NORTH CAROLINA

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)
License # C-1269 / #C-245 Geology

DATE: 8–18–16	REVISION NO. 0
JOB NO. JCI–001	FIGURE NO. 5

S:\AAA-Master Projects\Johnson Controls Inc - JCI\July 2016 annual sampling\Figures\Figures 2-5.dwg, FIG 5, 8/18/2016 3:40:57 PM, zbarlow

Appendix A

Certification Forms

REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 1 OF 2
IHSB SITE NAME Trion, Inc. Site NONCD 0002843
DATE & NAME OF DOCUMENT August 19, 2016, Annual Groundwater Monitoring Rep
TYPE OF SUBMITTAL (circle all that apply): Report, Work plan, Work Phase Comp. Statement, Schedule Change

REMEDIATING PARTY DOCUMENT CERTIFICATION STATEMENT (.0306(B)(2))

"I certify under penalty of law that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information."

Jeff Werwie, P.E. CHMM
Name of Remediating Party

Signature of Remediating Party

8-19-2016
Date

NOTARIZATION

Wisconsin (Enter State)

Milwaukee **COUNTY**

I, Karen M. Barkas, a Notary Public of said County and State, do hereby certify that Jeff Werwie did personally appear and sign before me this day, produced proper identification in the form of Drivers Licence, was duly sworn or affirmed, and declared that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is true and accurate, and he or she then signed this Certification in my presence.

WITNESS my hand and official seal this 19th day of August, 2016.

Notary Public (signature)

(OFFICIAL SEAL)

Karen M. Barkas
Notary Public
State of Wisconsin

My commission expires: 4/21/18.

Document Certification Form No. DC - I
(Revised 8/11)

REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 2 OF 2
IHSB SITE NAME Trion, Inc. NONCD 0002843
DATE & NAME OF DOCUMENT August 19, 2016 Annual Groundwater Monitoring Report
TYPE OF SUBMITTAL (circle all that apply): Report, Work plan, Work Phase Comp. Statement, Schedule Change

REGISTERED SITE MANAGER CERTIFICATION OF SIGNATURES

As the Registered Environmental Consultant for the Site for which this filing is made, I certify that the signatures included herewith are genuine and authentic original handwritten signatures and/or true, accurate, and complete copies of the genuine and authentic original handwritten signatures of the persons who purport to sign for this filing. I further certify that I have collected through reliable means the originals and/or copies of said signatures from the persons authorized to sign for this filing who, in fact, signed the originals thereof. Those persons and I understand and agree that any copies of signatures have the same legally binding effect as original handwritten signatures, and I certify that any person for whom I am submitting a copy of their signature has provided me with their express consent to submit said copy. Additionally, I certify that I am authorized to attest to the genuineness and authenticity of the signatures, both originals and any copies, being submitted herewith and that by signing below, I do in fact attest to the genuineness and authenticity of all the signatures, both originals and copies, being submitted for this filing.

Leonard Moretz
Name of Registered Site Manager

Leonard Moretz
Signature of Registered Site Manager

August 22, 2016
Date

REGISTERED SITE MANAGER DOCUMENT CERTIFICATION STATEMENT (.0306(b)(1))

"I certify under penalty of law that I am personally familiar with the information contained in this submittal, including any and all supporting documents accompanying this certification, and that the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete and complies with the Inactive Hazardous Sites Response Act G.S. 130A-310, et seq, and the remedial action program Rules 15A NCAC 13C .0300. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information."

Leonard Moretz
Name of Registered Site Manager

Leonard Moretz
Signature of Registered Site Manager

August 22, 2016
Date

NOTARIZATION

North Carolina (Enter State)

Johnston COUNTY

I, Shelby J. Payne, a Notary Public of said County and State, do hereby certify that Leonard Moretz did personally appear and sign before me this day, produced proper identification in the form of N.C. Driver license, was duly sworn or affirmed, and declared that, he or she is the duly authorized environmental consultant of the remediating party of the property referenced above and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certifications is true and accurate, and he or she then signed these Certifications in my presence.

WITNESS my hand and official seal this 22 day of August, 2016.

Shelby J. Payne
Notary Public (signature)

(OFFICIAL SEAL)

SHELBY J. PAYNE NOTARY PUBLIC JOHNSTON COUNTY, N.C.

My commission expires: May 10 2019

Document Certification Form No. DC - II
(Revised 8/11)

Appendix B

Groundwater Sampling Forms

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

LOW-FLOW GROUNDWATER SAMPLING RECORD

Stabilization Criteria
~~DO +/- 0.3 mg/l~~
Turb. +/- 10% (<10 NTUs)
S. Cond. +/- ~~3%~~ 5%
~~ORP +/- 10 mV~~
pH +/- 0.1 unit

Job No: JCI.001

Well ID: TMW-1

Well Location:

Facility Name: Trion

Date: 7/25/2016

Top of Casing Elevation (ft msl): 283.63 Casing Material: PVC Volume of Water Per Well Volume: N/A

Total Well Depth (ft): 64 Depth to Water (ft): 9.66 Well Diameter: 2"

Sampling Personnel: L S Moretz J Ollison

Type of Pump: Peri Tubing Material: Poly Pump/Tubing set at: 60' ft.

Weather Conditions: 90's Sunny NOTES:

GROUNDWATER SAMPLING PARAMETERS

Time	Water Level	Volume Pumped	Pumping Rate	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH (SU)	ORP (mV)	Turbidity (NTU)
1015	10.38	NM	NM	1.02	23.83	404	7.67	-86.1	33.7
1020	10.49			0.58	24.20	406	7.66	-104.8	25.6
1025	10.56			0.39	24.78	412	7.73	-115.5	12.4
1030	10.66			0.23	24.94	416	7.75	-116.6	9.58
1035	10.75			0.20	25.03	417	7.76	-112.4	9.00

Other Sample Parameters: Ferrous Iron= 0.0

Sampled at: 1035 Parameters taken with: YSI-556 and Turbidimeter

Sample Delivered to: Prism by Courier at See COC.

Field Filtration: ( ) Yes (X) No If yes, which sample parameters were field filtered: N/A

Sample Parameter Containers (Types, Number of Containers, Preservatives): See COC

File: C:\Users\lsmoretz\Desktop\Low Flow Groundwater Sampling Record
Date:7/25/2016

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

LOW-FLOW GROUNDWATER SAMPLING RECORD

Stabilization Criteria
~~DO +/- 0.3 mg/l~~
Turb. +/- 10% (<10 NTUs)
S. Cond. +/- ~~3%~~ 5%
~~ORP +/- 10 mV~~
pH +/- 0.1 unit

Job No: SCI.001

Well ID: TMW-4

Well Location:

Date: 7/25/16

Facility Name: Trion

Top of Casing Elevation (ft msl): 271.88 Casing Material: PVC Volume of Water Per Well Volume: N/A

Total Well Depth (ft): 40 Depth to Water (ft): 6.31 Well Diameter: 2"

Sampling Personnel: L.S. Moretz + J. Ollison

Type of Pump: Peri Tubing Material: Poly Pump/Tubing set at: 35' ft.

Weather Conditions: 80's Sunny NOTES:

GROUNDWATER SAMPLING PARAMETERS

Time	Water Level	Volume Pumped	Pumping Rate	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH (SU)	ORP (mV)	Turbidity (NTU)
905	6.77	N	N/A	2.12	27.95	427	7.28	-82.3	146
910	6.81	↓	↓	1.09	28.73	431	7.31	-42.1	26.9
915	6.85			0.62	28.76	415	7.16	-35.6	9.86
920	6.88			0.42	28.79	405	7.09	-30.9	8.18
930	6.91			0.35	28.82	401	7.07	-28.4	8.02
935	6.94			0.31	28.86	397	7.04	-20.0	7.61

Other Sample Parameters: Ferrous Iron = 0.0

Sampled at: 935 Parameters taken with: YSI-556 + Turbidimeter

Sample Delivered to: Prism by Courier at See COC.

Field Filtration: ( ) Yes (X) No If yes, which sample parameters were field filtered: N/A

Sample Parameter Containers (Types, Number of Containers, Preservatives): See COC

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

LOW-FLOW GROUNDWATER SAMPLING RECORD

Stabilization Criteria
DO +/- 0.3mg/l
Turb. +/- 10% (<10 NTUs)
S. Cond. +/- 5%
ORP +/- 10 mV
pH +/- 0.1 unit

Job No: JCI.001

Well ID: MW-7

Well Location:

Facility Name: Trion

Date: 7/25/2016

Top of Casing Elevation (ft msl): 271.88 Casing Material: PVC Volume of Water Per Well Volume: N/A

Total Well Depth (ft): 40 Depth to Water (ft): 6.37 Well Diameter: 2"

Sampling Personnel: L. S. Moretz J. Ollison

Type of Pump: Peri Tubing Material: Poly Pump/Tubing set at: 35 ft.

Weather Conditions: 80's Sunny NOTES:

GROUNDWATER SAMPLING PARAMETERS

Time	Water Level	Volume Pumped	Pumping Rate	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH (SU)	ORP (mV)	Turbidity (NTU)
810	7.05	NM	NM	2.77	25.44	306	8.05	-66.8	>1000
815	7.33			0.43	26.43	317	7.90	-47.8	186
820	7.56			0.36	27.09	322	7.88	-59.6	53.1
825	7.75			0.25	27.15	325	7.89	-77.1	21.1
830	7.86			0.21	26.89	326	7.88	-100.8	9.76
835	7.96			0.19	27.07	324	7.89	-104.8	9.73

Other Sample Parameters: Ferrous Iron= 0.0

Sampled at: 835 Parameters taken with: YSI-556 and Turbidimeter

Sample Delivered to: BTSM by Courier at See COC.

Field Filtration: ( ) Yes (X) No If yes, which sample parameters were field filtered: N/A

Sample Parameter Containers (Types, Number of Containers, Preservatives): See COC

File: C:\Users\lsmoretz\Desktop\Low Flow Groundwater Sampling Record
Date:8/18/2016

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

LOW-FLOW GROUNDWATER SAMPLING RECORD

Stabilization Criteria
~~DO +/- 0.3 mg/l~~
Turb. +/- 10% (<10 NTUs)
S. Cond. +/- ~~3~~% 5%
~~ORP +/- 10 mV~~
pH +/- 0.1 unit

Job No: JCI.001

Well ID: MW-8

Well Location:

Facility Name: Trion

Date: 7/25/2016

Top of Casing Elevation (ft msl): 2 Casing Material: PVC Volume of Water Per Well Volume: N/A

Total Well Depth (ft): 35 Depth to Water (ft): 5.30 Well Diameter: 2"

Sampling Personnel: L S Moretz J Ollison

Type of Pump: Peri Tubing Material: Poly Pump/Tubing set at: 30 ft.

Weather Conditions: 90's partly cloudy NOTES:

GROUNDWATER SAMPLING PARAMETERS

Time	Water Level	Volume Pumped	Pumping Rate	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH (SU)	ORP (mV)	Turbidity (NTU)
1520		NM	NM	0.56	25.46	406	7.23	30.8	20.1
1525		↓	↓	0.34	26.67	420	7.24	23.2	11.8
1530				0.40	27.13	425	7.24	17.4	9.86
1535				0.30	26.53	419	7.23	15.6	9.72
1540				0.27	26.89	421	7.23	14.6	9.66

Other Sample Parameters: Ferrous Iron= 0.0

Sampled at: 1540 Parameters taken with: YSI-556 and Turbidimeter

Sample Delivered to: Prism by Courier at See COC.

Field Filtration: ( ) Yes (X) No If yes, which sample parameters were field filtered: N/A

Sample Parameter Containers (Types, Number of Containers, Preservatives): See COC

File: C:\Users\lsmoretz\Desktop\Low Flow Groundwater Sampling Record
Date:7/25/2016

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

LOW-FLOW GROUND WATER SAMPLING RECORD

Stabilization Criteria
~~DO +/- 0.3 mg/l~~
Turb. +/- 10% (<10 NTUs)
S. Cond. +/- ~~3%~~ 5%
~~ORP +/- 10 mV~~
pH +/- 0.1 unit

Job No: JCL.001
Well ID: MW-13
Well Location: ~~Source Property~~
Date: 7/25/16

Facility Name: Trion
Top of Casing Elevation (ft msl): 273.05 Casing Material: PVC
Total Well Depth (ft): 50 Depth to Water (ft): 20.06 Well Diameter: 2"
Sampling Personnel: J. Ollison
Type of Pump: Peristaltic Tubing Material: 1/4" OD Poly Pump/Tubing set at: 45
Weather Conditions: 80s Sunny NOTES:

GROUND WATER SAMPLING PARAMETERS

Time	Water Level	Volume Pumped (L)	Pumping Rate (mL/min)	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH	ORP (mV)	Turb NTUs
1040	20.06	NM	NM	0.98	32.78	367	7.42	156.7	130
1045	20.27	↓	↓	0.88	34.28	360	7.45	158.7	42.3
1050	20.33			1.03	34.91	360	7.47	130.2	84.4
1055	20.40			1.10	35.46	360	7.48	106.2	88.0
1100	20.48			1.01	36.18	362	7.48	78.5	11.5
1105	20.50			0.99	36.53	362	7.48	54.6	52.3

Other Sample Parameters: Fe^{2+} = 0.0
Sampled at: 1105 Parameters taken with: YSI-556, Hanna Turbidity meter
Sample Delivered to: Prism by Courier at See COC
Field Filtration: ( ) Yes (X) No If yes, which sample parameters were field filtered: N/A
Sample Parameter Containers (Types, Number of Containers, Preservatives): See COC

hart hickman

SYMMETER ENVIRONMENTAL SOLUTIONS

LOW-FLOW GROUND WATER SAMPLING RECORD

Stabilization Criteria
~~DO +/-~~ 0.3 mg/l
Turb. +/- 10% (<10 NTUs)
S. Cond. +/- ~~10%~~ 5%
~~ORP +/-~~ 10 mV
pH +/- 0.1 unit

Job No: JCI.001
Well ID: MW-14
Well Location: [redacted]
Date: 7/25/16

Facility Name: Trion
Top of Casing Elevation (ft msl): 273.05
Casing Material: PVC
Total Well Depth (ft): 50
Depth to Water (ft): 6.75
Well Diameter: 2"
Sampling Personnel: J. Ollikom
Type of Pump: Peristaltic
Tubing Material: 1/4" OD Poly
Pump/Tubing set at: 45
Weather Conditions: 90s Sunny
NOTES:

GROUND WATER SAMPLING PARAMETERS

Time	Water Level	Volume Pumped (L)	Pumping Rate (mL/min)	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH	ORP (mV)	Turb NTUs
1440	6.75	NM	NM	0.74	22.73	303	8.45	166.8	403
1445	7.64			0.38	24.50	311	8.12	9.0	298
1450	8.01			0.32	24.32	304	8.05	-22.2	117
1455	8.85			0.30	30.02	298	8.07	-41.2	39.0
1500	9.28			0.30	31.13	296	8.07	-43.7	16.9

Other Sample Parameters: Fe^{2+} = 0.0

Sampled at: 1500
Parameters taken with: YSI-556, Hach Turbidity Meter
Sample Delivered to: Prism
by Courier
at See COC
Field Filtration: ( ) Yes (X) No
If yes, which sample parameters were field filtered: N/A
Sample Parameter Containers (Types, Number of Containers, Preservatives): See COC

File:Low Flow Sheets_GRF.004, DW-1

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

LOW-FLOW GROUNDWATER SAMPLING RECORD

Stabilization Criteria
~~DO +/- 0.3 mg/l~~
Turb. +/- 10% (<10 NTUs)
S. Cond. +/- ~~3%~~ 5%
~~ORP +/- 10 mV~~
pH +/- 0.1 unit

Job No: JCI.001

Well ID: MW-16

Well Location:

Facility Name: Trion

Date: 7/25/2016

Top of Casing Elevation (ft msl): 266.39 Casing Material: PVC Volume of Water Per Well Volume:

Total Well Depth (ft): 50 Depth to Water (ft): 10.69 Well Diameter: 2"

Sampling Personnel: L S Moretz J Ollison

Type of Pump: Peri Tubing Material: Poly Pump/Tubing set at: 45 ft.

Weather Conditions: 90's partly cloudy NOTES:

GROUNDWATER SAMPLING PARAMETERS

Time	Water Level	Volume Pumped	Pumping Rate	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH (SU)	ORP (mV)	Turbidity (NTU)
1410	10.92	NM	NM	2.03	24.07	287	7.13	38.6	22.7
1415	11.24	↓	↓	1.13	22.44	281	7.08	23.8	15.5
1420	11.62			0.30	22.55	275	7.07	15.7	11.3
1425	11.81			0.24	22.32	274	7.09	7.9	9.98
1430	11.98			0.22	22.27	273	7.11	4.9	8.86

Other Sample Parameters: Ferrous Iron= 0.0

Sampled at: 1430 Parameters taken with: YSI-556 and Turbidimeter

Sample Delivered to: Prism by Courier at See COC.

Field Filtration: ( ) Yes (X) No If yes, which sample parameters were field filtered: N/A

Sample Parameter Containers (Types, Number of Containers, Preservatives): See COC

File: C:\Users\lsmoretz\Desktop\Low Flow Groundwater Sampling Record
Date:7/25/2016

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

LOW-FLOW GROUNDWATER SAMPLING RECORD

Stabilization Criteria
~~DO +/- 0.3 mg/l~~
Turb. +/- 10% (<10 NTUs)
S. Cond. +/- ~~3%~~ 5%
~~ORP +/- 10 mV~~
pH +/- 0.1 unit

Job No: JCI.001

Well ID: MW-17

Well Location:

Facility Name: Trion

Date: 7/25/2016

Top of Casing Elevation (ft msl): 264.63 Casing Material: PVC Volume of Water Per Well Volume:

Total Well Depth (ft): 75 Depth to Water (ft): 7.54 Well Diameter: 2"

Sampling Personnel: L S Moretz J Ollison

Type of Pump: Peri Tubing Material: Poly Pump/Tubing set at: 70 ft.

Weather Conditions: 90's Sunny NOTES:

GROUNDWATER SAMPLING PARAMETERS

Time	Water Level	Volume Pumped	Pumping Rate	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH (SU)	ORP (mV)	Turbidity (NTU)
1315	7.86	NM	NM	0.89	22.65	440	7.06	45.0	43.7
1320	7.91			0.51	23.03	477	7.29	19.0	36.2
1325	7.97			0.21	22.76	467	7.17	9.3	27.1
1330	7.99			0.22	22.99	421	6.74	25.5	15.4
1335	8.07			0.25	23.53	357	6.47	12.5	9.36
1340	8.21			0.27	23.11	341	6.37	52.1	9.11
1345	8.27			0.22	23.1	338	6.33	61.4	9.05

Other Sample Parameters: Ferrous Iron= 0.0

Sampled at: 1345 Parameters taken with: YSI-556 and Turbidimeter

Sample Delivered to: Prism by Courier at See COC.

Field Filtration: ( ) Yes (X) No If yes, which sample parameters were field filtered: N/A

Sample Parameter Containers (Types, Number of Containers, Preservatives): See COC

File: C:\Users\lsmoretz\Desktop\Low Flow Groundwater Sampling Record
Date:7/25/2016

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

LOW-FLOW GROUND WATER SAMPLING RECORD

Stabilization Criteria
~~DO +/- 0.3 mg/l~~
Turb. +/- 10% (<10 NTUs)
S. Cond. +/- ~~3%~~ 5%
~~ORP +/- 10 mV~~
pH +/- 0.1 unit

Job No: JCL.001
Well ID: DMW-1
Well Location: [redacted]
Date: 7/25/16

Facility Name: Trion
Top of Casing Elevation (ft msl): 273.35 Casing Material: PVC
Total Well Depth (ft): 100 Depth to Water (ft): 24.67 Well Diameter: 2"
Sampling Personnel: J. Ollison
Type of Pump: Peristaltic Tubing Material: 1/4" OD Poly Pump/Tubing set at: 90
Weather Conditions: 90s Sunny NOTES:

GROUND WATER SAMPLING PARAMETERS

Time	Water Level	Volume Pumped (L)	Pumping Rate (mL/min)	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH	ORP (mV)	Turb NTU
1320	24.67	NM	NM	1.97	28.71	295	8.57	108.2	568
1325	24.82	↓	↓	0.76	31.86	290	8.97	-46.0	336
1330	24.90			0.63	33.44	290	8.92	-64.0	11.6
1335	25.05			0.61	33.57	291	8.93	-66.4	11.6
1340	25.22			0.58	29.97	288	8.88	-73.4	7.12

Other Sample Parameters: Fe^{2+} = 0.0
Sampled at: 1340 Parameters taken with: YSI-556, Hanna Turbidity Meter
Sample Delivered to: Prism by Courier at See COC
Field Filtration: ( ) Yes (X) No If yes, which sample parameters were field filtered: N/A
Sample Parameter Containers (Types, Number of Containers, Preservatives): See COC

File:Low Flow Sheets_GRF.004, DW-1

Appendix C

Laboratory Analytical Report

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

NC Certification No. 402
NC Drinking Water Cert No. 37735
SC Certification No. 99012
FL NELAC Cert No. E87519
VA NELAC Cert No. 460211

Case Narrative

08/03/2016

Hart & Hickman (Raleigh)
Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Lab Submittal Date: 07/26/2016
Prism Work Order: 6070389

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Narrative Notes:

TOC and RSK-175 analysis was subcontracted to AES. Laboratory report is attached.

The results in this report relate only to the samples as submitted to the laboratory and the test results meet all requirements of NELAC except for those instances indicated in the case narrative and/or test comments.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Robbi A. Jones
President/Project Manager

Reviewed By Robbi A. Jones
President/Project Manager

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Data Qualifiers Key Reference:

CCV	CCV result is above the control limits. Analyte not detected in the sample. No further action taken.
D	RPD value outside of the control limits.
L1	LCS recovery outside of the QC limits. LCSD recovery within the limits. No further action taken.
LH	High LCS recovery. Analyte not detected in the sample(s). No further action taken.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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Sample Receipt Summary

08/03/2016

Prism Work Order: 6070389

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
TMW-1	6070389-01	Water	07/25/16	07/26/16
DMW-1	6070389-02	Water	07/25/16	07/26/16
TMW-4	6070389-03	Water	07/25/16	07/26/16
MW-7	6070389-04	Water	07/25/16	07/26/16
MW-8	6070389-05	Water	07/25/16	07/26/16
MW-13	6070389-06	Water	07/25/16	07/26/16
MW-14	6070389-07	Water	07/25/16	07/26/16
MW-16	6070389-08	Water	07/25/16	07/26/16
MW-17	6070389-09	Water	07/25/16	07/26/16
Dup-1	6070389-10	Water	07/25/16	07/26/16
Trip Blank	6070389-11	Water	07/25/16	07/26/16

Samples were received in good condition at 2.7 degrees C unless otherwise noted.

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Summary of Detections

08/03/2016

Prism Work Order: 6070389

Prism ID	Client ID	Parameter	Method	Result	Units
6070389-01	TMW-1	Chloride	*9056A	18	mg/L
6070389-01	TMW-1	Nitrate as N	*9056A	0.11	mg/L
6070389-01	TMW-1	Sulfate	*9056A	12	mg/L
6070389-02	DMW-1	Chloride	*9056A	4.0	mg/L
6070389-02	DMW-1	Sulfate	*9056A	1.7	mg/L
6070389-03	TMW-4	Chloride	*9056A	11	mg/L
6070389-03	TMW-4	Nitrate as N	*9056A	0.16	mg/L
6070389-03	TMW-4	Sulfate	*9056A	1.5	mg/L
6070389-03	TMW-4	Acetone	*8260B	6.2	ug/L
6070389-03	TMW-4	cis-1,2-Dichloroethylene	*8260B	72	ug/L
6070389-03	TMW-4	trans-1,2-Dichloroethylene	*8260B	5.6	ug/L
6070389-03	TMW-4	Trichloroethylene	*8260B	13	ug/L
6070389-04	MW-7	Chloride	*9056A	5.4	mg/L
6070389-04	MW-7	Sulfate	*9056A	2.1	mg/L
6070389-05	MW-8	Chloride	*9056A	14	mg/L
6070389-05	MW-8	Nitrate as N	*9056A	0.24	mg/L
6070389-05	MW-8	Sulfate	*9056A	2.0	mg/L
6070389-05	MW-8	cis-1,2-Dichloroethylene	*8260B	140	ug/L
6070389-05	MW-8	trans-1,2-Dichloroethylene	*8260B	13	ug/L
6070389-05	MW-8	Trichloroethylene	*8260B	65	ug/L
6070389-06	MW-13	Chloride	*9056A	13	mg/L
6070389-06	MW-13	Nitrate as N	*9056A	0.35	mg/L
6070389-06	MW-13	Sulfate	*9056A	4.8	mg/L
6070389-06	MW-13	cis-1,2-Dichloroethylene	*8260B	32	ug/L
6070389-06	MW-13	trans-1,2-Dichloroethylene	*8260B	2.7	ug/L
6070389-06	MW-13	Trichloroethylene	*8260B	19	ug/L
6070389-07	MW-14	Chloride	*9056A	4.6	mg/L
6070389-07	MW-14	Sulfate	*9056A	4.0	mg/L
6070389-07	MW-14	Acetone	*8260B	6.9	ug/L
6070389-07	MW-14	cis-1,2-Dichloroethylene	*8260B	0.54	ug/L
6070389-08	MW-16	Chloride	*9056A	8.2	mg/L
6070389-08	MW-16	Nitrate as N	*9056A	0.13	mg/L
6070389-08	MW-16	Sulfate	*9056A	2.2	mg/L
6070389-09	MW-17	Chloride	*9056A	16	mg/L
6070389-09	MW-17	Nitrate as N	*9056A	0.47	mg/L
6070389-09	MW-17	Sulfate	*9056A	5.9	mg/L
6070389-09	MW-17	cis-1,2-Dichloroethylene	*8260B	13	ug/L
6070389-09	MW-17	trans-1,2-Dichloroethylene	*8260B	1.8	ug/L
6070389-09	MW-17	Trichloroethylene	*8260B	6.7	ug/L
6070389-10	Dup-1	Chloride	*9056A	13	mg/L
6070389-10	Dup-1	Nitrate as N	*9056A	0.40	mg/L
6070389-10	Dup-1	Sulfate	*9056A	4.9	mg/L
6070389-10	Dup-1	Acetone	*8260B	19	ug/L
6070389-10	Dup-1	cis-1,2-Dichloroethylene	*8260B	32	ug/L

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Summary of Detections

08/03/2016

Prism Work Order: 6070389

Prism ID	Client ID	Parameter	Method	Result	Units
6070389-10	Dup-1	trans-1,2-Dichloroethylene	*8260B	2.6	ug/L
6070389-10	Dup-1	Trichloroethylene	*8260B	18	ug/L
6070389-11	Trip Blank	Chloroform	*8260B	0.53	ug/L

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Hart & Hickman (Raleigh)
Attn: Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Sample Matrix: Water

Client Sample ID: TMW-1
Prism Sample ID: 6070389-01
Prism Work Order: 6070389
Time Collected: 07/25/16 10:35
Time Submitted: 07/26/16 08:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**18**	**mg/L**	**1.0**	**0.060**	**1**	***9056A**	**7/26/16 14:58**	**EGC**	**P6G0448**
Nitrate as N	**0.11**	**mg/L**	**0.10**	**0.014**	**1**	***9056A**	**7/26/16 14:58**	**EGC**	**P6G0448**
Sulfate	**12**	**mg/L**	**1.0**	**0.26**	**1**	***9056A**	**7/26/16 14:58**	**EGC**	**P6G0448**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	7/27/16 22:40	KDM	P6G0457
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	7/27/16 22:40	KDM	P6G0457
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	7/27/16 22:40	KDM	P6G0457
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	7/27/16 22:40	KDM	P6G0457
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	7/27/16 22:40	KDM	P6G0457
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	7/27/16 22:40	KDM	P6G0457
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	7/27/16 22:40	KDM	P6G0457
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	7/27/16 22:40	KDM	P6G0457
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	7/27/16 22:40	KDM	P6G0457
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	7/27/16 22:40	KDM	P6G0457
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	7/27/16 22:40	KDM	P6G0457
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	7/27/16 22:40	KDM	P6G0457
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	7/27/16 22:40	KDM	P6G0457
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/27/16 22:40	KDM	P6G0457
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	7/27/16 22:40	KDM	P6G0457
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	7/27/16 22:40	KDM	P6G0457
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/27/16 22:40	KDM	P6G0457
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	7/27/16 22:40	KDM	P6G0457
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	7/27/16 22:40	KDM	P6G0457
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	7/27/16 22:40	KDM	P6G0457
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	7/27/16 22:40	KDM	P6G0457
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	7/27/16 22:40	KDM	P6G0457
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	7/27/16 22:40	KDM	P6G0457
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	7/27/16 22:40	KDM	P6G0457
Acetone	BRL	ug/L	5.0	0.31	1	*8260B	7/27/16 22:40	KDM	P6G0457
Acrolein	BRL	ug/L	20	0.20	1	*8260B	7/27/16 22:40	KDM	P6G0457
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	7/27/16 22:40	KDM	P6G0457
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	7/27/16 22:40	KDM	P6G0457
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	7/27/16 22:40	KDM	P6G0457
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	7/27/16 22:40	KDM	P6G0457
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	7/27/16 22:40	KDM	P6G0457
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	7/27/16 22:40	KDM	P6G0457
Bromomethane	BRL CCV	ug/L	1.0	0.18	1	*8260B	7/27/16 22:40	KDM	P6G0457
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	7/27/16 22:40	KDM	P6G0457
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	*8260B	7/27/16 22:40	KDM	P6G0457
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	7/27/16 22:40	KDM	P6G0457
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	7/27/16 22:40	KDM	P6G0457
Chloroform	BRL	ug/L	0.50	0.076	1	*8260B	7/27/16 22:40	KDM	P6G0457

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Hart & Hickman (Raleigh)
Attn: Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Sample Matrix: Water

Client Sample ID: TMW-1
Prism Sample ID: 6070389-01
Prism Work Order: 6070389
Time Collected: 07/25/16 10:35
Time Submitted: 07/26/16 08:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloromethane	BRL CCV	ug/L	0.50	0.079	1	*8260B	7/27/16 22:40	KDM	P6G0457
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	*8260B	7/27/16 22:40	KDM	P6G0457
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	7/27/16 22:40	KDM	P6G0457
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	7/27/16 22:40	KDM	P6G0457
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	7/27/16 22:40	KDM	P6G0457
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	7/27/16 22:40	KDM	P6G0457
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	7/27/16 22:40	KDM	P6G0457
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	7/27/16 22:40	KDM	P6G0457
Isopropyl Ether	BRL CCV	ug/L	0.50	0.050	1	*8260B	7/27/16 22:40	KDM	P6G0457
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	7/27/16 22:40	KDM	P6G0457
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	7/27/16 22:40	KDM	P6G0457
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	7/27/16 22:40	KDM	P6G0457
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	7/27/16 22:40	KDM	P6G0457
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	7/27/16 22:40	KDM	P6G0457
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	7/27/16 22:40	KDM	P6G0457
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	*8260B	7/27/16 22:40	KDM	P6G0457
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	7/27/16 22:40	KDM	P6G0457
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	7/27/16 22:40	KDM	P6G0457
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	7/27/16 22:40	KDM	P6G0457
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	7/27/16 22:40	KDM	P6G0457
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/27/16 22:40	KDM	P6G0457
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	7/27/16 22:40	KDM	P6G0457
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	7/27/16 22:40	KDM	P6G0457
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	*8260B	7/27/16 22:40	KDM	P6G0457
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	7/27/16 22:40	KDM	P6G0457
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	*8260B	7/27/16 22:40	KDM	P6G0457
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	7/27/16 22:40	KDM	P6G0457
Trichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	7/27/16 22:40	KDM	P6G0457
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	7/27/16 22:40	KDM	P6G0457
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	7/27/16 22:40	KDM	P6G0457
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	7/27/16 22:40	KDM	P6G0457

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*104 %*	*80-124*
Dibromofluoromethane	*105 %*	*75-129*
Toluene-d8	*97 %*	*77-123*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Hart & Hickman (Raleigh)
Attn: Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Sample Matrix: Water

Client Sample ID: DMW-1
Prism Sample ID: 6070389-02
Prism Work Order: 6070389
Time Collected: 07/25/16 13:40
Time Submitted: 07/26/16 08:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**4.0**	**mg/L**	**1.0**	**0.060**	**1**	***9056A**	**7/26/16 15:14**	**EGC**	**P6G0448**
Nitrate as N	BRL	mg/L	0.10	0.014	1	*9056A	7/26/16 15:14	EGC	P6G0448
Sulfate	**1.7**	**mg/L**	**1.0**	**0.26**	**1**	***9056A**	**7/26/16 15:14**	**EGC**	**P6G0448**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	7/27/16 23:06	KDM	P6G0457
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	7/27/16 23:06	KDM	P6G0457
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	7/27/16 23:06	KDM	P6G0457
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	7/27/16 23:06	KDM	P6G0457
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	7/27/16 23:06	KDM	P6G0457
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	7/27/16 23:06	KDM	P6G0457
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	7/27/16 23:06	KDM	P6G0457
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	7/27/16 23:06	KDM	P6G0457
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	7/27/16 23:06	KDM	P6G0457
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	7/27/16 23:06	KDM	P6G0457
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	7/27/16 23:06	KDM	P6G0457
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	7/27/16 23:06	KDM	P6G0457
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	7/27/16 23:06	KDM	P6G0457
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/27/16 23:06	KDM	P6G0457
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	7/27/16 23:06	KDM	P6G0457
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	7/27/16 23:06	KDM	P6G0457
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/27/16 23:06	KDM	P6G0457
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	7/27/16 23:06	KDM	P6G0457
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	7/27/16 23:06	KDM	P6G0457
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	7/27/16 23:06	KDM	P6G0457
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	7/27/16 23:06	KDM	P6G0457
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	7/27/16 23:06	KDM	P6G0457
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	7/27/16 23:06	KDM	P6G0457
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	7/27/16 23:06	KDM	P6G0457
Acetone	BRL	ug/L	5.0	0.31	1	*8260B	7/27/16 23:06	KDM	P6G0457
Acrolein	BRL	ug/L	20	0.20	1	*8260B	7/27/16 23:06	KDM	P6G0457
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	7/27/16 23:06	KDM	P6G0457
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	7/27/16 23:06	KDM	P6G0457
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	7/27/16 23:06	KDM	P6G0457
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	7/27/16 23:06	KDM	P6G0457
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	7/27/16 23:06	KDM	P6G0457
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	7/27/16 23:06	KDM	P6G0457
Bromomethane	BRL CCV	ug/L	1.0	0.18	1	*8260B	7/27/16 23:06	KDM	P6G0457
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	7/27/16 23:06	KDM	P6G0457
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	*8260B	7/27/16 23:06	KDM	P6G0457
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	7/27/16 23:06	KDM	P6G0457
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	7/27/16 23:06	KDM	P6G0457
Chloroform	BRL	ug/L	0.50	0.076	1	*8260B	7/27/16 23:06	KDM	P6G0457

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Laboratory Report

08/03/2016

Hart & Hickman (Raleigh)
Attn: Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Sample Matrix: Water

Client Sample ID: DMW-1
Prism Sample ID: 6070389-02
Prism Work Order: 6070389
Time Collected: 07/25/16 13:40
Time Submitted: 07/26/16 08:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloromethane	BRL CCV	ug/L	0.50	0.079	1	*8260B	7/27/16 23:06	KDM	P6G0457
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	*8260B	7/27/16 23:06	KDM	P6G0457
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	7/27/16 23:06	KDM	P6G0457
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	7/27/16 23:06	KDM	P6G0457
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	7/27/16 23:06	KDM	P6G0457
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	7/27/16 23:06	KDM	P6G0457
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	7/27/16 23:06	KDM	P6G0457
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	7/27/16 23:06	KDM	P6G0457
Isopropyl Ether	BRL CCV	ug/L	0.50	0.050	1	*8260B	7/27/16 23:06	KDM	P6G0457
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	7/27/16 23:06	KDM	P6G0457
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	7/27/16 23:06	KDM	P6G0457
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	7/27/16 23:06	KDM	P6G0457
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	7/27/16 23:06	KDM	P6G0457
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	7/27/16 23:06	KDM	P6G0457
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	7/27/16 23:06	KDM	P6G0457
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	*8260B	7/27/16 23:06	KDM	P6G0457
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	7/27/16 23:06	KDM	P6G0457
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	7/27/16 23:06	KDM	P6G0457
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	7/27/16 23:06	KDM	P6G0457
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	7/27/16 23:06	KDM	P6G0457
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/27/16 23:06	KDM	P6G0457
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	7/27/16 23:06	KDM	P6G0457
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	7/27/16 23:06	KDM	P6G0457
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	*8260B	7/27/16 23:06	KDM	P6G0457
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	7/27/16 23:06	KDM	P6G0457
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	*8260B	7/27/16 23:06	KDM	P6G0457
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	7/27/16 23:06	KDM	P6G0457
Trichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	7/27/16 23:06	KDM	P6G0457
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	7/27/16 23:06	KDM	P6G0457
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	7/27/16 23:06	KDM	P6G0457
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	7/27/16 23:06	KDM	P6G0457

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*80-124*
Dibromofluoromethane	*106 %*	*75-129*
Toluene-d8	*98 %*	*77-123*

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Hart & Hickman (Raleigh)
Attn: Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Sample Matrix: Water

Client Sample ID: TMW-4
Prism Sample ID: 6070389-03
Prism Work Order: 6070389
Time Collected: 07/25/16 09:35
Time Submitted: 07/26/16 08:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**11**	**mg/L**	**1.0**	**0.060**	**1**	***9056A**	**7/26/16 16:01**	**EGC**	**P6G0448**
Nitrate as N	**0.16**	**mg/L**	**0.10**	**0.014**	**1**	***9056A**	**7/26/16 16:01**	**EGC**	**P6G0448**
Sulfate	**1.5**	**mg/L**	**1.0**	**0.26**	**1**	***9056A**	**7/26/16 16:01**	**EGC**	**P6G0448**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	7/27/16 23:32	KDM	P6G0457
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	7/27/16 23:32	KDM	P6G0457
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	7/27/16 23:32	KDM	P6G0457
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	7/27/16 23:32	KDM	P6G0457
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	7/27/16 23:32	KDM	P6G0457
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	7/27/16 23:32	KDM	P6G0457
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	7/27/16 23:32	KDM	P6G0457
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	7/27/16 23:32	KDM	P6G0457
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	7/27/16 23:32	KDM	P6G0457
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	7/27/16 23:32	KDM	P6G0457
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	7/27/16 23:32	KDM	P6G0457
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	7/27/16 23:32	KDM	P6G0457
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	7/27/16 23:32	KDM	P6G0457
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/27/16 23:32	KDM	P6G0457
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	7/27/16 23:32	KDM	P6G0457
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	7/27/16 23:32	KDM	P6G0457
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/27/16 23:32	KDM	P6G0457
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	7/27/16 23:32	KDM	P6G0457
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	7/27/16 23:32	KDM	P6G0457
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	7/27/16 23:32	KDM	P6G0457
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	7/27/16 23:32	KDM	P6G0457
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	7/27/16 23:32	KDM	P6G0457
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	7/27/16 23:32	KDM	P6G0457
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	7/27/16 23:32	KDM	P6G0457
Acetone	**6.2**	**ug/L**	**5.0**	**0.31**	**1**	***8260B**	**7/27/16 23:32**	**KDM**	**P6G0457**
Acrolein	BRL	ug/L	20	0.20	1	*8260B	7/27/16 23:32	KDM	P6G0457
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	7/27/16 23:32	KDM	P6G0457
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	7/27/16 23:32	KDM	P6G0457
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	7/27/16 23:32	KDM	P6G0457
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	7/27/16 23:32	KDM	P6G0457
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	7/27/16 23:32	KDM	P6G0457
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	7/27/16 23:32	KDM	P6G0457
Bromomethane	BRL CCV	ug/L	1.0	0.18	1	*8260B	7/27/16 23:32	KDM	P6G0457
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	7/27/16 23:32	KDM	P6G0457
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	*8260B	7/27/16 23:32	KDM	P6G0457
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	7/27/16 23:32	KDM	P6G0457
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	7/27/16 23:32	KDM	P6G0457
Chloroform	BRL	ug/L	0.50	0.076	1	*8260B	7/27/16 23:32	KDM	P6G0457

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Hart & Hickman (Raleigh)
Attn: Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Sample Matrix: Water

Client Sample ID: TMW-4
Prism Sample ID: 6070389-03
Prism Work Order: 6070389
Time Collected: 07/25/16 09:35
Time Submitted: 07/26/16 08:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloromethane	BRL CCV	ug/L	0.50	0.079	1	*8260B	7/27/16 23:32	KDM	P6G0457
cis-1,2-Dichloroethylene	**72**	**ug/L**	**0.50**	**0.056**	**1**	***8260B**	**7/27/16 23:32**	**KDM**	**P6G0457**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	7/27/16 23:32	KDM	P6G0457
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	7/27/16 23:32	KDM	P6G0457
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	7/27/16 23:32	KDM	P6G0457
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	7/27/16 23:32	KDM	P6G0457
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	7/27/16 23:32	KDM	P6G0457
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	7/27/16 23:32	KDM	P6G0457
Isopropyl Ether	BRL CCV	ug/L	0.50	0.050	1	*8260B	7/27/16 23:32	KDM	P6G0457
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	7/27/16 23:32	KDM	P6G0457
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	7/27/16 23:32	KDM	P6G0457
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	7/27/16 23:32	KDM	P6G0457
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	7/27/16 23:32	KDM	P6G0457
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	7/27/16 23:32	KDM	P6G0457
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	7/27/16 23:32	KDM	P6G0457
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	*8260B	7/27/16 23:32	KDM	P6G0457
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	7/27/16 23:32	KDM	P6G0457
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	7/27/16 23:32	KDM	P6G0457
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	7/27/16 23:32	KDM	P6G0457
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	7/27/16 23:32	KDM	P6G0457
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/27/16 23:32	KDM	P6G0457
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	7/27/16 23:32	KDM	P6G0457
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	7/27/16 23:32	KDM	P6G0457
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	*8260B	7/27/16 23:32	KDM	P6G0457
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	7/27/16 23:32	KDM	P6G0457
trans-1,2-Dichloroethylene	**5.6**	**ug/L**	**0.50**	**0.094**	**1**	***8260B**	**7/27/16 23:32**	**KDM**	**P6G0457**
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	7/27/16 23:32	KDM	P6G0457
Trichloroethylene	**13**	**ug/L**	**0.50**	**0.078**	**1**	***8260B**	**7/27/16 23:32**	**KDM**	**P6G0457**
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	7/27/16 23:32	KDM	P6G0457
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	7/27/16 23:32	KDM	P6G0457
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	7/27/16 23:32	KDM	P6G0457

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*80-124*
Dibromofluoromethane	*105 %*	*75-129*
Toluene-d8	*97 %*	*77-123*

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Hart & Hickman (Raleigh)
Attn: Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Sample Matrix: Water

Client Sample ID: MW-7
Prism Sample ID: 6070389-04
Prism Work Order: 6070389
Time Collected: 07/25/16 08:35
Time Submitted: 07/26/16 08:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**5.4**	**mg/L**	**1.0**	**0.060**	**1**	***9056A**	**7/26/16 16:17**	**EGC**	**P6G0448**
Nitrate as N	BRL	mg/L	0.10	0.014	1	*9056A	7/26/16 16:17	EGC	P6G0448
Sulfate	**2.1**	**mg/L**	**1.0**	**0.26**	**1**	***9056A**	**7/26/16 16:17**	**EGC**	**P6G0448**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	7/27/16 23:58	KDM	P6G0457
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	7/27/16 23:58	KDM	P6G0457
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	7/27/16 23:58	KDM	P6G0457
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	7/27/16 23:58	KDM	P6G0457
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	7/27/16 23:58	KDM	P6G0457
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	7/27/16 23:58	KDM	P6G0457
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	7/27/16 23:58	KDM	P6G0457
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	7/27/16 23:58	KDM	P6G0457
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	7/27/16 23:58	KDM	P6G0457
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	7/27/16 23:58	KDM	P6G0457
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	7/27/16 23:58	KDM	P6G0457
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	7/27/16 23:58	KDM	P6G0457
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	7/27/16 23:58	KDM	P6G0457
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/27/16 23:58	KDM	P6G0457
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	7/27/16 23:58	KDM	P6G0457
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	7/27/16 23:58	KDM	P6G0457
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/27/16 23:58	KDM	P6G0457
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	7/27/16 23:58	KDM	P6G0457
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	7/27/16 23:58	KDM	P6G0457
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	7/27/16 23:58	KDM	P6G0457
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	7/27/16 23:58	KDM	P6G0457
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	7/27/16 23:58	KDM	P6G0457
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	7/27/16 23:58	KDM	P6G0457
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	7/27/16 23:58	KDM	P6G0457
Acetone	BRL	ug/L	5.0	0.31	1	*8260B	7/27/16 23:58	KDM	P6G0457
Acrolein	BRL	ug/L	20	0.20	1	*8260B	7/27/16 23:58	KDM	P6G0457
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	7/27/16 23:58	KDM	P6G0457
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	7/27/16 23:58	KDM	P6G0457
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	7/27/16 23:58	KDM	P6G0457
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	7/27/16 23:58	KDM	P6G0457
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	7/27/16 23:58	KDM	P6G0457
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	7/27/16 23:58	KDM	P6G0457
Bromomethane	BRL CCV	ug/L	1.0	0.18	1	*8260B	7/27/16 23:58	KDM	P6G0457
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	7/27/16 23:58	KDM	P6G0457
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	*8260B	7/27/16 23:58	KDM	P6G0457
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	7/27/16 23:58	KDM	P6G0457
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	7/27/16 23:58	KDM	P6G0457
Chloroform	BRL	ug/L	0.50	0.076	1	*8260B	7/27/16 23:58	KDM	P6G0457

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Hart & Hickman (Raleigh)
Attn: Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Sample Matrix: Water

Client Sample ID: MW-7
Prism Sample ID: 6070389-04
Prism Work Order: 6070389
Time Collected: 07/25/16 08:35
Time Submitted: 07/26/16 08:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloromethane	BRL CCV	ug/L	0.50	0.079	1	*8260B	7/27/16 23:58	KDM	P6G0457
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	*8260B	7/27/16 23:58	KDM	P6G0457
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	7/27/16 23:58	KDM	P6G0457
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	7/27/16 23:58	KDM	P6G0457
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	7/27/16 23:58	KDM	P6G0457
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	7/27/16 23:58	KDM	P6G0457
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	7/27/16 23:58	KDM	P6G0457
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	7/27/16 23:58	KDM	P6G0457
Isopropyl Ether	BRL CCV	ug/L	0.50	0.050	1	*8260B	7/27/16 23:58	KDM	P6G0457
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	7/27/16 23:58	KDM	P6G0457
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	7/27/16 23:58	KDM	P6G0457
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	7/27/16 23:58	KDM	P6G0457
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	7/27/16 23:58	KDM	P6G0457
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	7/27/16 23:58	KDM	P6G0457
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	7/27/16 23:58	KDM	P6G0457
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	*8260B	7/27/16 23:58	KDM	P6G0457
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	7/27/16 23:58	KDM	P6G0457
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	7/27/16 23:58	KDM	P6G0457
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	7/27/16 23:58	KDM	P6G0457
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	7/27/16 23:58	KDM	P6G0457
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/27/16 23:58	KDM	P6G0457
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	7/27/16 23:58	KDM	P6G0457
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	7/27/16 23:58	KDM	P6G0457
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	*8260B	7/27/16 23:58	KDM	P6G0457
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	7/27/16 23:58	KDM	P6G0457
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	*8260B	7/27/16 23:58	KDM	P6G0457
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	7/27/16 23:58	KDM	P6G0457
Trichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	7/27/16 23:58	KDM	P6G0457
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	7/27/16 23:58	KDM	P6G0457
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	7/27/16 23:58	KDM	P6G0457
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	7/27/16 23:58	KDM	P6G0457

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*104 %*	*75-129*
Toluene-d8	*95 %*	*77-123*

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Hart & Hickman (Raleigh)
Attn: Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Sample Matrix: Water

Client Sample ID: MW-8
Prism Sample ID: 6070389-05
Prism Work Order: 6070389
Time Collected: 07/25/16 15:40
Time Submitted: 07/26/16 08:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**14**	**mg/L**	**1.0**	**0.060**	**1**	***9056A**	**7/26/16 16:33**	**EGC**	**P6G0448**
Nitrate as N	**0.24**	**mg/L**	**0.10**	**0.014**	**1**	***9056A**	**7/26/16 16:33**	**EGC**	**P6G0448**
Sulfate	**2.0**	**mg/L**	**1.0**	**0.26**	**1**	***9056A**	**7/26/16 16:33**	**EGC**	**P6G0448**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	7/28/16 0:24	KDM	P6G0457
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	7/28/16 0:24	KDM	P6G0457
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	7/28/16 0:24	KDM	P6G0457
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	7/28/16 0:24	KDM	P6G0457
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	7/28/16 0:24	KDM	P6G0457
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	7/28/16 0:24	KDM	P6G0457
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	7/28/16 0:24	KDM	P6G0457
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	7/28/16 0:24	KDM	P6G0457
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	7/28/16 0:24	KDM	P6G0457
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	7/28/16 0:24	KDM	P6G0457
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	7/28/16 0:24	KDM	P6G0457
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	7/28/16 0:24	KDM	P6G0457
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	7/28/16 0:24	KDM	P6G0457
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 0:24	KDM	P6G0457
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	7/28/16 0:24	KDM	P6G0457
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	7/28/16 0:24	KDM	P6G0457
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 0:24	KDM	P6G0457
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	7/28/16 0:24	KDM	P6G0457
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	7/28/16 0:24	KDM	P6G0457
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	7/28/16 0:24	KDM	P6G0457
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	7/28/16 0:24	KDM	P6G0457
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	7/28/16 0:24	KDM	P6G0457
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	7/28/16 0:24	KDM	P6G0457
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	7/28/16 0:24	KDM	P6G0457
Acetone	BRL	ug/L	5.0	0.31	1	*8260B	7/28/16 0:24	KDM	P6G0457
Acrolein	BRL	ug/L	20	0.20	1	*8260B	7/28/16 0:24	KDM	P6G0457
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	7/28/16 0:24	KDM	P6G0457
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	7/28/16 0:24	KDM	P6G0457
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	7/28/16 0:24	KDM	P6G0457
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	7/28/16 0:24	KDM	P6G0457
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	7/28/16 0:24	KDM	P6G0457
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	7/28/16 0:24	KDM	P6G0457
Bromomethane	BRL CCV	ug/L	1.0	0.18	1	*8260B	7/28/16 0:24	KDM	P6G0457
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	7/28/16 0:24	KDM	P6G0457
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	*8260B	7/28/16 0:24	KDM	P6G0457
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	7/28/16 0:24	KDM	P6G0457
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	7/28/16 0:24	KDM	P6G0457
Chloroform	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 0:24	KDM	P6G0457

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Hart & Hickman (Raleigh)
Attn: Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Sample Matrix: Water

Client Sample ID: MW-8
Prism Sample ID: 6070389-05
Prism Work Order: 6070389
Time Collected: 07/25/16 15:40
Time Submitted: 07/26/16 08:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloromethane	BRL CCV	ug/L	0.50	0.079	1	*8260B	7/28/16 0:24	KDM	P6G0457
cis-1,2-Dichloroethylene	**140**	**ug/L**	**5.0**	**0.56**	**10**	***8260B**	**7/28/16 0:50**	**KDM**	**P6G0457**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	7/28/16 0:24	KDM	P6G0457
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	7/28/16 0:24	KDM	P6G0457
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	7/28/16 0:24	KDM	P6G0457
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	7/28/16 0:24	KDM	P6G0457
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	7/28/16 0:24	KDM	P6G0457
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	7/28/16 0:24	KDM	P6G0457
Isopropyl Ether	BRL CCV	ug/L	0.50	0.050	1	*8260B	7/28/16 0:24	KDM	P6G0457
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	7/28/16 0:24	KDM	P6G0457
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	7/28/16 0:24	KDM	P6G0457
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	7/28/16 0:24	KDM	P6G0457
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	7/28/16 0:24	KDM	P6G0457
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	7/28/16 0:24	KDM	P6G0457
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	7/28/16 0:24	KDM	P6G0457
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	*8260B	7/28/16 0:24	KDM	P6G0457
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	7/28/16 0:24	KDM	P6G0457
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	7/28/16 0:24	KDM	P6G0457
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	7/28/16 0:24	KDM	P6G0457
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	7/28/16 0:24	KDM	P6G0457
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 0:24	KDM	P6G0457
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	7/28/16 0:24	KDM	P6G0457
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	7/28/16 0:24	KDM	P6G0457
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	*8260B	7/28/16 0:24	KDM	P6G0457
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	7/28/16 0:24	KDM	P6G0457
trans-1,2-Dichloroethylene	**13**	**ug/L**	**0.50**	**0.094**	**1**	***8260B**	**7/28/16 0:24**	**KDM**	**P6G0457**
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	7/28/16 0:24	KDM	P6G0457
Trichloroethylene	**65**	**ug/L**	**0.50**	**0.078**	**1**	***8260B**	**7/28/16 0:24**	**KDM**	**P6G0457**
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	7/28/16 0:24	KDM	P6G0457
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	7/28/16 0:24	KDM	P6G0457
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	7/28/16 0:24	KDM	P6G0457

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*104 %*	*75-129*
Toluene-d8	*96 %*	*77-123*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Hart & Hickman (Raleigh)
Attn: Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Sample Matrix: Water

Client Sample ID: MW-13
Prism Sample ID: 6070389-06
Prism Work Order: 6070389
Time Collected: 07/25/16 11:05
Time Submitted: 07/26/16 08:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**13**	**mg/L**	**1.0**	**0.060**	**1**	***9056A**	**7/26/16 16:49**	**EGC**	**P6G0448**
Nitrate as N	**0.35**	**mg/L**	**0.10**	**0.014**	**1**	***9056A**	**7/26/16 16:49**	**EGC**	**P6G0448**
Sulfate	**4.8**	**mg/L**	**1.0**	**0.26**	**1**	***9056A**	**7/26/16 16:49**	**EGC**	**P6G0448**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	7/28/16 17:19	KDM	P6G0478
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	7/28/16 17:19	KDM	P6G0478
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	7/28/16 17:19	KDM	P6G0478
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	7/28/16 17:19	KDM	P6G0478
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	7/28/16 17:19	KDM	P6G0478
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	7/28/16 17:19	KDM	P6G0478
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	7/28/16 17:19	KDM	P6G0478
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	7/28/16 17:19	KDM	P6G0478
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	7/28/16 17:19	KDM	P6G0478
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	7/28/16 17:19	KDM	P6G0478
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	7/28/16 17:19	KDM	P6G0478
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	7/28/16 17:19	KDM	P6G0478
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	7/28/16 17:19	KDM	P6G0478
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 17:19	KDM	P6G0478
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	7/28/16 17:19	KDM	P6G0478
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	7/28/16 17:19	KDM	P6G0478
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 17:19	KDM	P6G0478
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	7/28/16 17:19	KDM	P6G0478
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	7/28/16 17:19	KDM	P6G0478
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	7/28/16 17:19	KDM	P6G0478
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	7/28/16 17:19	KDM	P6G0478
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	7/28/16 17:19	KDM	P6G0478
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	7/28/16 17:19	KDM	P6G0478
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	7/28/16 17:19	KDM	P6G0478
Acetone	BRL	ug/L	5.0	0.31	1	*8260B	7/28/16 17:19	KDM	P6G0478
Acrolein	BRL	ug/L	20	0.20	1	*8260B	7/28/16 17:19	KDM	P6G0478
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	7/28/16 17:19	KDM	P6G0478
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	7/28/16 17:19	KDM	P6G0478
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	7/28/16 17:19	KDM	P6G0478
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	7/28/16 17:19	KDM	P6G0478
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	7/28/16 17:19	KDM	P6G0478
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	7/28/16 17:19	KDM	P6G0478
Bromomethane	BRL	ug/L	1.0	0.18	1	*8260B	7/28/16 17:19	KDM	P6G0478
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	7/28/16 17:19	KDM	P6G0478
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	*8260B	7/28/16 17:19	KDM	P6G0478
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	7/28/16 17:19	KDM	P6G0478
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	7/28/16 17:19	KDM	P6G0478
Chloroform	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 17:19	KDM	P6G0478

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Hart & Hickman (Raleigh)
Attn: Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Sample Matrix: Water

Client Sample ID: MW-13
Prism Sample ID: 6070389-06
Prism Work Order: 6070389
Time Collected: 07/25/16 11:05
Time Submitted: 07/26/16 08:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloromethane	BRL CCV	ug/L	0.50	0.079	1	*8260B	7/28/16 17:19	KDM	P6G0478
cis-1,2-Dichloroethylene	**32**	**ug/L**	**0.50**	**0.056**	**1**	***8260B**	**7/28/16 17:19**	**KDM**	**P6G0478**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	7/28/16 17:19	KDM	P6G0478
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	7/28/16 17:19	KDM	P6G0478
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	7/28/16 17:19	KDM	P6G0478
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	7/28/16 17:19	KDM	P6G0478
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	7/28/16 17:19	KDM	P6G0478
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	7/28/16 17:19	KDM	P6G0478
Isopropyl Ether	BRL CCV	ug/L	0.50	0.050	1	*8260B	7/28/16 17:19	KDM	P6G0478
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	7/28/16 17:19	KDM	P6G0478
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	7/28/16 17:19	KDM	P6G0478
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	7/28/16 17:19	KDM	P6G0478
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	7/28/16 17:19	KDM	P6G0478
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	7/28/16 17:19	KDM	P6G0478
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	7/28/16 17:19	KDM	P6G0478
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	*8260B	7/28/16 17:19	KDM	P6G0478
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	7/28/16 17:19	KDM	P6G0478
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	7/28/16 17:19	KDM	P6G0478
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	7/28/16 17:19	KDM	P6G0478
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	7/28/16 17:19	KDM	P6G0478
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 17:19	KDM	P6G0478
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	7/28/16 17:19	KDM	P6G0478
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	7/28/16 17:19	KDM	P6G0478
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	*8260B	7/28/16 17:19	KDM	P6G0478
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	7/28/16 17:19	KDM	P6G0478
trans-1,2-Dichloroethylene	**2.7**	**ug/L**	**0.50**	**0.094**	**1**	***8260B**	**7/28/16 17:19**	**KDM**	**P6G0478**
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	7/28/16 17:19	KDM	P6G0478
Trichloroethylene	**19**	**ug/L**	**0.50**	**0.078**	**1**	***8260B**	**7/28/16 17:19**	**KDM**	**P6G0478**
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	7/28/16 17:19	KDM	P6G0478
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	7/28/16 17:19	KDM	P6G0478
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	7/28/16 17:19	KDM	P6G0478

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*103 %*	*75-129*
Toluene-d8	*96 %*	*77-123*

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Hart & Hickman (Raleigh)
Attn: Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Sample Matrix: Water

Client Sample ID: MW-14
Prism Sample ID: 6070389-07
Prism Work Order: 6070389
Time Collected: 07/25/16 15:00
Time Submitted: 07/26/16 08:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**4.6**	**mg/L**	**1.0**	**0.060**	**1**	***9056A**	**7/26/16 17:05**	**EGC**	**P6G0448**
Nitrate as N	BRL	mg/L	0.10	0.014	1	*9056A	7/26/16 17:05	EGC	P6G0448
Sulfate	**4.0**	**mg/L**	**1.0**	**0.26**	**1**	***9056A**	**7/26/16 17:05**	**EGC**	**P6G0448**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	7/28/16 17:45	KDM	P6G0478
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	7/28/16 17:45	KDM	P6G0478
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	7/28/16 17:45	KDM	P6G0478
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	7/28/16 17:45	KDM	P6G0478
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	7/28/16 17:45	KDM	P6G0478
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	7/28/16 17:45	KDM	P6G0478
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	7/28/16 17:45	KDM	P6G0478
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	7/28/16 17:45	KDM	P6G0478
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	7/28/16 17:45	KDM	P6G0478
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	7/28/16 17:45	KDM	P6G0478
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	7/28/16 17:45	KDM	P6G0478
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	7/28/16 17:45	KDM	P6G0478
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	7/28/16 17:45	KDM	P6G0478
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 17:45	KDM	P6G0478
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	7/28/16 17:45	KDM	P6G0478
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	7/28/16 17:45	KDM	P6G0478
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 17:45	KDM	P6G0478
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	7/28/16 17:45	KDM	P6G0478
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	7/28/16 17:45	KDM	P6G0478
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	7/28/16 17:45	KDM	P6G0478
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	7/28/16 17:45	KDM	P6G0478
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	7/28/16 17:45	KDM	P6G0478
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	7/28/16 17:45	KDM	P6G0478
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	7/28/16 17:45	KDM	P6G0478
Acetone	**6.9**	**ug/L**	**5.0**	**0.31**	**1**	***8260B**	**7/28/16 17:45**	**KDM**	**P6G0478**
Acrolein	BRL	ug/L	20	0.20	1	*8260B	7/28/16 17:45	KDM	P6G0478
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	7/28/16 17:45	KDM	P6G0478
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	7/28/16 17:45	KDM	P6G0478
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	7/28/16 17:45	KDM	P6G0478
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	7/28/16 17:45	KDM	P6G0478
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	7/28/16 17:45	KDM	P6G0478
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	7/28/16 17:45	KDM	P6G0478
Bromomethane	BRL	ug/L	1.0	0.18	1	*8260B	7/28/16 17:45	KDM	P6G0478
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	7/28/16 17:45	KDM	P6G0478
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	*8260B	7/28/16 17:45	KDM	P6G0478
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	7/28/16 17:45	KDM	P6G0478
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	7/28/16 17:45	KDM	P6G0478
Chloroform	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 17:45	KDM	P6G0478

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Hart & Hickman (Raleigh)
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3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Sample Matrix: Water

Client Sample ID: MW-14
Prism Sample ID: 6070389-07
Prism Work Order: 6070389
Time Collected: 07/25/16 15:00
Time Submitted: 07/26/16 08:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloromethane	BRL CCV	ug/L	0.50	0.079	1	*8260B	7/28/16 17:45	KDM	P6G0478
cis-1,2-Dichloroethylene	**0.54**	**ug/L**	**0.50**	**0.056**	**1**	***8260B**	**7/28/16 17:45**	**KDM**	**P6G0478**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	7/28/16 17:45	KDM	P6G0478
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	7/28/16 17:45	KDM	P6G0478
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	7/28/16 17:45	KDM	P6G0478
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	7/28/16 17:45	KDM	P6G0478
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	7/28/16 17:45	KDM	P6G0478
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	7/28/16 17:45	KDM	P6G0478
Isopropyl Ether	BRL CCV	ug/L	0.50	0.050	1	*8260B	7/28/16 17:45	KDM	P6G0478
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	7/28/16 17:45	KDM	P6G0478
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	7/28/16 17:45	KDM	P6G0478
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	7/28/16 17:45	KDM	P6G0478
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	7/28/16 17:45	KDM	P6G0478
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	7/28/16 17:45	KDM	P6G0478
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	7/28/16 17:45	KDM	P6G0478
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	*8260B	7/28/16 17:45	KDM	P6G0478
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	7/28/16 17:45	KDM	P6G0478
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	7/28/16 17:45	KDM	P6G0478
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	7/28/16 17:45	KDM	P6G0478
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	7/28/16 17:45	KDM	P6G0478
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 17:45	KDM	P6G0478
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	7/28/16 17:45	KDM	P6G0478
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	7/28/16 17:45	KDM	P6G0478
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	*8260B	7/28/16 17:45	KDM	P6G0478
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	7/28/16 17:45	KDM	P6G0478
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	*8260B	7/28/16 17:45	KDM	P6G0478
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	7/28/16 17:45	KDM	P6G0478
Trichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	7/28/16 17:45	KDM	P6G0478
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	7/28/16 17:45	KDM	P6G0478
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	7/28/16 17:45	KDM	P6G0478
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	7/28/16 17:45	KDM	P6G0478

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*100 %*	*80-124*
Dibromofluoromethane	*103 %*	*75-129*
Toluene-d8	*96 %*	*77-123*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Hart & Hickman (Raleigh)
Attn: Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Sample Matrix: Water

Client Sample ID: MW-16
Prism Sample ID: 6070389-08
Prism Work Order: 6070389
Time Collected: 07/25/16 14:30
Time Submitted: 07/26/16 08:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**8.2**	**mg/L**	**1.0**	**0.060**	**1**	***9056A**	**7/26/16 17:20**	**EGC**	**P6G0448**
Nitrate as N	**0.13**	**mg/L**	**0.10**	**0.014**	**1**	***9056A**	**7/26/16 17:20**	**EGC**	**P6G0448**
Sulfate	**2.2**	**mg/L**	**1.0**	**0.26**	**1**	***9056A**	**7/26/16 17:20**	**EGC**	**P6G0448**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	7/28/16 18:11	KDM	P6G0478
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	7/28/16 18:11	KDM	P6G0478
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	7/28/16 18:11	KDM	P6G0478
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	7/28/16 18:11	KDM	P6G0478
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	7/28/16 18:11	KDM	P6G0478
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	7/28/16 18:11	KDM	P6G0478
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	7/28/16 18:11	KDM	P6G0478
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	7/28/16 18:11	KDM	P6G0478
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	7/28/16 18:11	KDM	P6G0478
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	7/28/16 18:11	KDM	P6G0478
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	7/28/16 18:11	KDM	P6G0478
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	7/28/16 18:11	KDM	P6G0478
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	7/28/16 18:11	KDM	P6G0478
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 18:11	KDM	P6G0478
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	7/28/16 18:11	KDM	P6G0478
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	7/28/16 18:11	KDM	P6G0478
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 18:11	KDM	P6G0478
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	7/28/16 18:11	KDM	P6G0478
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	7/28/16 18:11	KDM	P6G0478
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	7/28/16 18:11	KDM	P6G0478
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	7/28/16 18:11	KDM	P6G0478
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	7/28/16 18:11	KDM	P6G0478
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	7/28/16 18:11	KDM	P6G0478
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	7/28/16 18:11	KDM	P6G0478
Acetone	BRL	ug/L	5.0	0.31	1	*8260B	7/28/16 18:11	KDM	P6G0478
Acrolein	BRL	ug/L	20	0.20	1	*8260B	7/28/16 18:11	KDM	P6G0478
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	7/28/16 18:11	KDM	P6G0478
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	7/28/16 18:11	KDM	P6G0478
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	7/28/16 18:11	KDM	P6G0478
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	7/28/16 18:11	KDM	P6G0478
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	7/28/16 18:11	KDM	P6G0478
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	7/28/16 18:11	KDM	P6G0478
Bromomethane	BRL	ug/L	1.0	0.18	1	*8260B	7/28/16 18:11	KDM	P6G0478
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	7/28/16 18:11	KDM	P6G0478
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	*8260B	7/28/16 18:11	KDM	P6G0478
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	7/28/16 18:11	KDM	P6G0478
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	7/28/16 18:11	KDM	P6G0478
Chloroform	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 18:11	KDM	P6G0478

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Hart & Hickman (Raleigh)
Attn: Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Sample Matrix: Water

Client Sample ID: MW-16
Prism Sample ID: 6070389-08
Prism Work Order: 6070389
Time Collected: 07/25/16 14:30
Time Submitted: 07/26/16 08:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloromethane	BRL CCV	ug/L	0.50	0.079	1	*8260B	7/28/16 18:11	KDM	P6G0478
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	*8260B	7/28/16 18:11	KDM	P6G0478
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	7/28/16 18:11	KDM	P6G0478
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	7/28/16 18:11	KDM	P6G0478
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	7/28/16 18:11	KDM	P6G0478
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	7/28/16 18:11	KDM	P6G0478
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	7/28/16 18:11	KDM	P6G0478
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	7/28/16 18:11	KDM	P6G0478
Isopropyl Ether	BRL CCV	ug/L	0.50	0.050	1	*8260B	7/28/16 18:11	KDM	P6G0478
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	7/28/16 18:11	KDM	P6G0478
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	7/28/16 18:11	KDM	P6G0478
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	7/28/16 18:11	KDM	P6G0478
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	7/28/16 18:11	KDM	P6G0478
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	7/28/16 18:11	KDM	P6G0478
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	7/28/16 18:11	KDM	P6G0478
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	*8260B	7/28/16 18:11	KDM	P6G0478
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	7/28/16 18:11	KDM	P6G0478
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	7/28/16 18:11	KDM	P6G0478
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	7/28/16 18:11	KDM	P6G0478
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	7/28/16 18:11	KDM	P6G0478
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 18:11	KDM	P6G0478
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	7/28/16 18:11	KDM	P6G0478
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	7/28/16 18:11	KDM	P6G0478
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	*8260B	7/28/16 18:11	KDM	P6G0478
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	7/28/16 18:11	KDM	P6G0478
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	*8260B	7/28/16 18:11	KDM	P6G0478
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	7/28/16 18:11	KDM	P6G0478
Trichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	7/28/16 18:11	KDM	P6G0478
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	7/28/16 18:11	KDM	P6G0478
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	7/28/16 18:11	KDM	P6G0478
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	7/28/16 18:11	KDM	P6G0478

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*104 %*	*75-129*
Toluene-d8	*95 %*	*77-123*

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Hart & Hickman (Raleigh)
Attn: Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Sample Matrix: Water

Client Sample ID: MW-17
Prism Sample ID: 6070389-09
Prism Work Order: 6070389
Time Collected: 07/25/16 13:45
Time Submitted: 07/26/16 08:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**16**	**mg/L**	**1.0**	**0.060**	**1**	***9056A**	**7/26/16 17:36**	**EGC**	**P6G0448**
Nitrate as N	**0.47**	**mg/L**	**0.10**	**0.014**	**1**	***9056A**	**7/26/16 17:36**	**EGC**	**P6G0448**
Sulfate	**5.9**	**mg/L**	**1.0**	**0.26**	**1**	***9056A**	**7/26/16 17:36**	**EGC**	**P6G0448**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	7/28/16 18:37	KDM	P6G0478
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	7/28/16 18:37	KDM	P6G0478
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	7/28/16 18:37	KDM	P6G0478
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	7/28/16 18:37	KDM	P6G0478
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	7/28/16 18:37	KDM	P6G0478
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	7/28/16 18:37	KDM	P6G0478
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	7/28/16 18:37	KDM	P6G0478
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	7/28/16 18:37	KDM	P6G0478
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	7/28/16 18:37	KDM	P6G0478
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	7/28/16 18:37	KDM	P6G0478
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	7/28/16 18:37	KDM	P6G0478
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	7/28/16 18:37	KDM	P6G0478
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	7/28/16 18:37	KDM	P6G0478
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 18:37	KDM	P6G0478
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	7/28/16 18:37	KDM	P6G0478
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	7/28/16 18:37	KDM	P6G0478
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 18:37	KDM	P6G0478
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	7/28/16 18:37	KDM	P6G0478
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	7/28/16 18:37	KDM	P6G0478
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	7/28/16 18:37	KDM	P6G0478
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	7/28/16 18:37	KDM	P6G0478
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	7/28/16 18:37	KDM	P6G0478
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	7/28/16 18:37	KDM	P6G0478
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	7/28/16 18:37	KDM	P6G0478
Acetone	BRL	ug/L	5.0	0.31	1	*8260B	7/28/16 18:37	KDM	P6G0478
Acrolein	BRL	ug/L	20	0.20	1	*8260B	7/28/16 18:37	KDM	P6G0478
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	7/28/16 18:37	KDM	P6G0478
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	7/28/16 18:37	KDM	P6G0478
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	7/28/16 18:37	KDM	P6G0478
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	7/28/16 18:37	KDM	P6G0478
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	7/28/16 18:37	KDM	P6G0478
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	7/28/16 18:37	KDM	P6G0478
Bromomethane	BRL	ug/L	1.0	0.18	1	*8260B	7/28/16 18:37	KDM	P6G0478
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	7/28/16 18:37	KDM	P6G0478
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	*8260B	7/28/16 18:37	KDM	P6G0478
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	7/28/16 18:37	KDM	P6G0478
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	7/28/16 18:37	KDM	P6G0478
Chloroform	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 18:37	KDM	P6G0478

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Hart & Hickman (Raleigh)
Attn: Leatha Moretz
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Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Sample Matrix: Water

Client Sample ID: MW-17
Prism Sample ID: 6070389-09
Prism Work Order: 6070389
Time Collected: 07/25/16 13:45
Time Submitted: 07/26/16 08:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloromethane	BRL CCV	ug/L	0.50	0.079	1	*8260B	7/28/16 18:37	KDM	P6G0478
cis-1,2-Dichloroethylene	**13**	**ug/L**	**0.50**	**0.056**	**1**	***8260B**	**7/28/16 18:37**	**KDM**	**P6G0478**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	7/28/16 18:37	KDM	P6G0478
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	7/28/16 18:37	KDM	P6G0478
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	7/28/16 18:37	KDM	P6G0478
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	7/28/16 18:37	KDM	P6G0478
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	7/28/16 18:37	KDM	P6G0478
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	7/28/16 18:37	KDM	P6G0478
Isopropyl Ether	BRL CCV	ug/L	0.50	0.050	1	*8260B	7/28/16 18:37	KDM	P6G0478
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	7/28/16 18:37	KDM	P6G0478
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	7/28/16 18:37	KDM	P6G0478
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	7/28/16 18:37	KDM	P6G0478
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	7/28/16 18:37	KDM	P6G0478
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	7/28/16 18:37	KDM	P6G0478
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	7/28/16 18:37	KDM	P6G0478
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	*8260B	7/28/16 18:37	KDM	P6G0478
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	7/28/16 18:37	KDM	P6G0478
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	7/28/16 18:37	KDM	P6G0478
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	7/28/16 18:37	KDM	P6G0478
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	7/28/16 18:37	KDM	P6G0478
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 18:37	KDM	P6G0478
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	7/28/16 18:37	KDM	P6G0478
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	7/28/16 18:37	KDM	P6G0478
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	*8260B	7/28/16 18:37	KDM	P6G0478
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	7/28/16 18:37	KDM	P6G0478
trans-1,2-Dichloroethylene	**1.8**	**ug/L**	**0.50**	**0.094**	**1**	***8260B**	**7/28/16 18:37**	**KDM**	**P6G0478**
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	7/28/16 18:37	KDM	P6G0478
Trichloroethylene	**6.7**	**ug/L**	**0.50**	**0.078**	**1**	***8260B**	**7/28/16 18:37**	**KDM**	**P6G0478**
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	7/28/16 18:37	KDM	P6G0478
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	7/28/16 18:37	KDM	P6G0478
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	7/28/16 18:37	KDM	P6G0478

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*100 %*	*80-124*
Dibromofluoromethane	*102 %*	*75-129*
Toluene-d8	*96 %*	*77-123*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Hart & Hickman (Raleigh)
Attn: Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Sample Matrix: Water

Client Sample ID: Dup-1
Prism Sample ID: 6070389-10
Prism Work Order: 6070389
Time Collected: 07/25/16 00:00
Time Submitted: 07/26/16 08:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**13**	**mg/L**	**1.0**	**0.060**	**1**	***9056A**	**7/26/16 17:52**	**EGC**	**P6G0448**
Nitrate as N	**0.40**	**mg/L**	**0.10**	**0.014**	**1**	***9056A**	**7/26/16 17:52**	**EGC**	**P6G0448**
Sulfate	**4.9**	**mg/L**	**1.0**	**0.26**	**1**	***9056A**	**7/26/16 17:52**	**EGC**	**P6G0448**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	7/28/16 21:13	KDM	P6G0478
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	7/28/16 21:13	KDM	P6G0478
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	7/28/16 21:13	KDM	P6G0478
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	7/28/16 21:13	KDM	P6G0478
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	7/28/16 21:13	KDM	P6G0478
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	7/28/16 21:13	KDM	P6G0478
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	7/28/16 21:13	KDM	P6G0478
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	7/28/16 21:13	KDM	P6G0478
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	7/28/16 21:13	KDM	P6G0478
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	7/28/16 21:13	KDM	P6G0478
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	7/28/16 21:13	KDM	P6G0478
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	7/28/16 21:13	KDM	P6G0478
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	7/28/16 21:13	KDM	P6G0478
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 21:13	KDM	P6G0478
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	7/28/16 21:13	KDM	P6G0478
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	7/28/16 21:13	KDM	P6G0478
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 21:13	KDM	P6G0478
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	7/28/16 21:13	KDM	P6G0478
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	7/28/16 21:13	KDM	P6G0478
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	7/28/16 21:13	KDM	P6G0478
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	7/28/16 21:13	KDM	P6G0478
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	7/28/16 21:13	KDM	P6G0478
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	7/28/16 21:13	KDM	P6G0478
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	7/28/16 21:13	KDM	P6G0478
Acetone	**19**	**ug/L**	**5.0**	**0.31**	**1**	***8260B**	**7/28/16 21:13**	**KDM**	**P6G0478**
Acrolein	BRL	ug/L	20	0.20	1	*8260B	7/28/16 21:13	KDM	P6G0478
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	7/28/16 21:13	KDM	P6G0478
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	7/28/16 21:13	KDM	P6G0478
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	7/28/16 21:13	KDM	P6G0478
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	7/28/16 21:13	KDM	P6G0478
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	7/28/16 21:13	KDM	P6G0478
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	7/28/16 21:13	KDM	P6G0478
Bromomethane	BRL	ug/L	1.0	0.18	1	*8260B	7/28/16 21:13	KDM	P6G0478
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	7/28/16 21:13	KDM	P6G0478
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	*8260B	7/28/16 21:13	KDM	P6G0478
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	7/28/16 21:13	KDM	P6G0478
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	7/28/16 21:13	KDM	P6G0478
Chloroform	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 21:13	KDM	P6G0478

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Hart & Hickman (Raleigh)
Attn: Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Sample Matrix: Water

Client Sample ID: Dup-1
Prism Sample ID: 6070389-10
Prism Work Order: 6070389
Time Collected: 07/25/16 00:00
Time Submitted: 07/26/16 08:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloromethane	BRL CCV	ug/L	0.50	0.079	1	*8260B	7/28/16 21:13	KDM	P6G0478
cis-1,2-Dichloroethylene	**32**	**ug/L**	**0.50**	**0.056**	**1**	***8260B**	**7/28/16 21:13**	**KDM**	**P6G0478**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	7/28/16 21:13	KDM	P6G0478
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	7/28/16 21:13	KDM	P6G0478
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	7/28/16 21:13	KDM	P6G0478
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	7/28/16 21:13	KDM	P6G0478
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	7/28/16 21:13	KDM	P6G0478
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	7/28/16 21:13	KDM	P6G0478
Isopropyl Ether	BRL CCV	ug/L	0.50	0.050	1	*8260B	7/28/16 21:13	KDM	P6G0478
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	7/28/16 21:13	KDM	P6G0478
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	7/28/16 21:13	KDM	P6G0478
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	7/28/16 21:13	KDM	P6G0478
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	7/28/16 21:13	KDM	P6G0478
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	7/28/16 21:13	KDM	P6G0478
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	7/28/16 21:13	KDM	P6G0478
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	*8260B	7/28/16 21:13	KDM	P6G0478
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	7/28/16 21:13	KDM	P6G0478
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	7/28/16 21:13	KDM	P6G0478
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	7/28/16 21:13	KDM	P6G0478
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	7/28/16 21:13	KDM	P6G0478
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 21:13	KDM	P6G0478
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	7/28/16 21:13	KDM	P6G0478
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	7/28/16 21:13	KDM	P6G0478
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	*8260B	7/28/16 21:13	KDM	P6G0478
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	7/28/16 21:13	KDM	P6G0478
trans-1,2-Dichloroethylene	**2.6**	**ug/L**	**0.50**	**0.094**	**1**	***8260B**	**7/28/16 21:13**	**KDM**	**P6G0478**
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	7/28/16 21:13	KDM	P6G0478
Trichloroethylene	**18**	**ug/L**	**0.50**	**0.078**	**1**	***8260B**	**7/28/16 21:13**	**KDM**	**P6G0478**
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	7/28/16 21:13	KDM	P6G0478
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	7/28/16 21:13	KDM	P6G0478
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	7/28/16 21:13	KDM	P6G0478

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*100 %*	*80-124*
Dibromofluoromethane	*101 %*	*75-129*
Toluene-d8	*97 %*	*77-123*

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Hart & Hickman (Raleigh)
Attn: Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 6070389-11
Prism Work Order: 6070389
Time Collected: 07/25/16 00:00
Time Submitted: 07/26/16 08:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	7/28/16 13:52	KDM	P6G0478
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	7/28/16 13:52	KDM	P6G0478
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	7/28/16 13:52	KDM	P6G0478
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	7/28/16 13:52	KDM	P6G0478
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	7/28/16 13:52	KDM	P6G0478
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	7/28/16 13:52	KDM	P6G0478
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	7/28/16 13:52	KDM	P6G0478
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	7/28/16 13:52	KDM	P6G0478
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	7/28/16 13:52	KDM	P6G0478
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	7/28/16 13:52	KDM	P6G0478
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	7/28/16 13:52	KDM	P6G0478
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	7/28/16 13:52	KDM	P6G0478
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	7/28/16 13:52	KDM	P6G0478
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 13:52	KDM	P6G0478
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	7/28/16 13:52	KDM	P6G0478
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	7/28/16 13:52	KDM	P6G0478
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 13:52	KDM	P6G0478
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	7/28/16 13:52	KDM	P6G0478
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	7/28/16 13:52	KDM	P6G0478
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	7/28/16 13:52	KDM	P6G0478
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	7/28/16 13:52	KDM	P6G0478
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	7/28/16 13:52	KDM	P6G0478
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	7/28/16 13:52	KDM	P6G0478
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	7/28/16 13:52	KDM	P6G0478
Acetone	BRL	ug/L	5.0	0.31	1	*8260B	7/28/16 13:52	KDM	P6G0478
Acrolein	BRL	ug/L	20	0.20	1	*8260B	7/28/16 13:52	KDM	P6G0478
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	7/28/16 13:52	KDM	P6G0478
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	7/28/16 13:52	KDM	P6G0478
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	7/28/16 13:52	KDM	P6G0478
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	7/28/16 13:52	KDM	P6G0478
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	7/28/16 13:52	KDM	P6G0478
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	7/28/16 13:52	KDM	P6G0478
Bromomethane	BRL	ug/L	1.0	0.18	1	*8260B	7/28/16 13:52	KDM	P6G0478
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	7/28/16 13:52	KDM	P6G0478
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	*8260B	7/28/16 13:52	KDM	P6G0478
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	7/28/16 13:52	KDM	P6G0478
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	7/28/16 13:52	KDM	P6G0478
Chloroform	**0.53**	**ug/L**	**0.50**	**0.076**	**1**	***8260B**	**7/28/16 13:52**	**KDM**	**P6G0478**
Chloromethane	BRL CCV	ug/L	0.50	0.079	1	*8260B	7/28/16 13:52	KDM	P6G0478
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	*8260B	7/28/16 13:52	KDM	P6G0478
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	7/28/16 13:52	KDM	P6G0478
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	7/28/16 13:52	KDM	P6G0478

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Hart & Hickman (Raleigh)
Attn: Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 6070389-11
Prism Work Order: 6070389
Time Collected: 07/25/16 00:00
Time Submitted: 07/26/16 08:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	7/28/16 13:52	KDM	P6G0478
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	7/28/16 13:52	KDM	P6G0478
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	7/28/16 13:52	KDM	P6G0478
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	7/28/16 13:52	KDM	P6G0478
Isopropyl Ether	BRL CCV	ug/L	0.50	0.050	1	*8260B	7/28/16 13:52	KDM	P6G0478
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	7/28/16 13:52	KDM	P6G0478
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	7/28/16 13:52	KDM	P6G0478
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	7/28/16 13:52	KDM	P6G0478
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	7/28/16 13:52	KDM	P6G0478
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	7/28/16 13:52	KDM	P6G0478
Methylene Chloride	BRL	ug/L	1.0	0.083	1	*8260B	7/28/16 13:52	KDM	P6G0478
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	*8260B	7/28/16 13:52	KDM	P6G0478
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	7/28/16 13:52	KDM	P6G0478
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	7/28/16 13:52	KDM	P6G0478
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	7/28/16 13:52	KDM	P6G0478
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	7/28/16 13:52	KDM	P6G0478
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	7/28/16 13:52	KDM	P6G0478
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	7/28/16 13:52	KDM	P6G0478
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	7/28/16 13:52	KDM	P6G0478
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	*8260B	7/28/16 13:52	KDM	P6G0478
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	7/28/16 13:52	KDM	P6G0478
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	*8260B	7/28/16 13:52	KDM	P6G0478
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	7/28/16 13:52	KDM	P6G0478
Trichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	7/28/16 13:52	KDM	P6G0478
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	7/28/16 13:52	KDM	P6G0478
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	7/28/16 13:52	KDM	P6G0478
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	7/28/16 13:52	KDM	P6G0478

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*80-124*
Dibromofluoromethane	*104 %*	*75-129*
Toluene-d8	*96 %*	*77-123*

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Hart & Hickman (Raleigh)
Attn: Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Prism Work Order: 6070389
Time Submitted: 7/26/2016 8:10:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6G0457 - 5030B										
Blank (P6G0457-BLK1)				Prepared & Analyzed: 07/27/16						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	2.0	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2,4-Trichlorobenzene	BRL	1.0	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrolein	BRL	20	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
Hexachlorobutadiene	BRL	2.0	ug/L							

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Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Prism Work Order: 6070389
Time Submitted: 7/26/2016 8:10:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6G0457 - 5030B										
Blank (P6G0457-BLK1)				Prepared & Analyzed: 07/27/16						
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
Methyl-tert-Butyl Ether	BRL	0.50	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	1.0	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Heptane	0.00		ug/L							
Surrogate: 4-Bromofluorobenzene	*52.6*		*ug/L*	*50.00*		*105*	*80-124*			
Surrogate: Dibromofluoromethane	*51.0*		*ug/L*	*50.00*		*102*	*75-129*			
Surrogate: Toluene-d8	*48.4*		*ug/L*	*50.00*		*97*	*77-123*			

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Project: JCI-001 Trion, Inc.

Prism Work Order: 6070389
Time Submitted: 7/26/2016 8:10:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6G0457 - 5030B										
LCS (P6G0457-BS1)				Prepared & Analyzed: 07/27/16						
1,1,1,2-Tetrachloroethane	22.2	0.50	ug/L	20.00		111	79-134			
1,1,1-Trichloroethane	20.4	0.50	ug/L	20.00		102	75-136			
1,1,2,2-Tetrachloroethane	20.9	0.50	ug/L	20.00		104	62-127			
1,1,2-Trichloroethane	22.8	0.50	ug/L	20.00		114	70-140			
1,1-Dichloroethane	24.4	0.50	ug/L	20.00		122	78-130			
1,1-Dichloroethylene	15.6	0.50	ug/L	20.00		78	70-154			
1,1-Dichloropropylene	19.7	0.50	ug/L	20.00		99	71-136			
1,2,3-Trichlorobenzene	22.6	2.0	ug/L	20.00		113	58-144			
1,2,3-Trichloropropane	21.1	1.0	ug/L	20.00		106	71-127			
1,2,4-Trichlorobenzene	21.9	1.0	ug/L	20.00		109	66-139			
1,2,4-Trimethylbenzene	22.9	0.50	ug/L	20.00		114	75-133			
1,2-Dibromo-3-chloropropane	20.9	2.0	ug/L	20.00		105	63-134			
1,2-Dibromoethane	23.3	0.50	ug/L	20.00		117	77-135			
1,2-Dichlorobenzene	21.5	0.50	ug/L	20.00		107	78-128			
1,2-Dichloroethane	23.9	0.50	ug/L	20.00		120	68-131			
1,2-Dichloropropane	22.4	0.50	ug/L	20.00		112	77-130			
1,3,5-Trimethylbenzene	20.1	0.50	ug/L	20.00		100	75-131			
1,3-Dichlorobenzene	20.8	0.50	ug/L	20.00		104	77-125			
1,3-Dichloropropane	21.7	0.50	ug/L	20.00		108	76-132			
1,4-Dichlorobenzene	21.0	0.50	ug/L	20.00		105	75-126			
2,2-Dichloropropane	23.5	2.0	ug/L	20.00		118	29-149			
2-Chlorotoluene	21.9	0.50	ug/L	20.00		109	74-126			
4-Chlorotoluene	22.1	0.50	ug/L	20.00		111	78-129			
4-Isopropyltoluene	21.8	0.50	ug/L	20.00		109	69-132			
Acetone	38.8	5.0	ug/L	40.00		97	40-166			
Acrolein	45.6	20	ug/L	40.00		114	70-130			
Acrylonitrile	49.6	20	ug/L	40.00		124	81-127			
Benzene	23.4	0.50	ug/L	20.00		117	77-128			
Bromobenzene	22.2	0.50	ug/L	20.00		111	78-129			
Bromochloromethane	23.4	0.50	ug/L	20.00		117	78-135			
Bromodichloromethane	25.0	0.50	ug/L	20.00		125	76-138			
Bromoform	19.6	1.0	ug/L	20.00		98	71-135			
Bromomethane	33.0	1.0	ug/L	20.00		165	41-168			
Carbon disulfide	16.9	5.0	ug/L	20.00		85	59-135			
Carbon Tetrachloride	20.2	0.50	ug/L	20.00		101	72-142			
Chlorobenzene	22.1	0.50	ug/L	20.00		111	78-119			
Chloroethane	21.2	0.50	ug/L	20.00		106	57-142			
Chloroform	23.3	0.50	ug/L	20.00		117	77-130			
Chloromethane	41.1	0.50	ug/L	20.00		206	47-145			LH
cis-1,2-Dichloroethylene	23.3	0.50	ug/L	20.00		117	76-141			
cis-1,3-Dichloropropylene	24.1	0.50	ug/L	20.00		121	65-140			
Dibromochloromethane	20.2	0.50	ug/L	20.00		101	75-134			
Dibromomethane	23.2	0.50	ug/L	20.00		116	76-138			
Dichlorodifluoromethane	25.2	1.0	ug/L	20.00		126	28-163			
Ethylbenzene	21.9	0.50	ug/L	20.00		110	80-127			
Hexachlorobutadiene	21.9	2.0	ug/L	20.00		110	61-134			

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Hart & Hickman (Raleigh)
Attn: Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Prism Work Order: 6070389
Time Submitted: 7/26/2016 8:10:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6G0457 - 5030B										
LCS (P6G0457-BS1)				Prepared & Analyzed: 07/27/16						
Isopropyl Ether	25.6	0.50	ug/L	20.00		128	60-154			
Isopropylbenzene (Cumene)	20.9	0.50	ug/L	20.00		104	70-130			
m,p-Xylenes	46.3	1.0	ug/L	40.00		116	77-133			
Methyl Butyl Ketone (2-Hexanone)	23.6	5.0	ug/L	20.00		118	64-137			
Methyl Ethyl Ketone (2-Butanone)	22.9	5.0	ug/L	20.00		114	71-134			
Methyl Isobutyl Ketone	24.2	5.0	ug/L	20.00		121	69-134			
Methylene Chloride	20.4	1.0	ug/L	20.00		102	73-131			
Methyl-tert-Butyl Ether	23.7	0.50	ug/L	20.00		118	68-135			
Naphthalene	21.0	1.0	ug/L	20.00		105	64-136			
n-Butylbenzene	19.8	1.0	ug/L	20.00		99	68-134			
n-Propylbenzene	21.4	0.50	ug/L	20.00		107	72-132			
o-Xylene	22.2	0.50	ug/L	20.00		111	78-128			
sec-Butylbenzene	19.4	0.50	ug/L	20.00		97	71-131			
Styrene	21.2	0.50	ug/L	20.00		106	78-129			
tert-Butylbenzene	18.6	0.50	ug/L	20.00		93	70-132			
Tetrachloroethylene	18.7	0.50	ug/L	20.00		93	80-129			
Toluene	22.6	0.50	ug/L	20.00		113	76-131			
trans-1,2-Dichloroethylene	20.0	0.50	ug/L	20.00		100	76-135			
trans-1,3-Dichloropropylene	21.4	0.50	ug/L	20.00		107	67-140			
Trichloroethylene	21.0	0.50	ug/L	20.00		105	77-133			
Trichlorofluoromethane	21.4	0.50	ug/L	20.00		107	62-148			
Vinyl acetate	25.2	2.0	ug/L	20.00		126	34-167			
Vinyl chloride	25.1	0.50	ug/L	20.00		126	57-141			
Surrogate: 4-Bromofluorobenzene	*51.6*		*ug/L*	*50.00*		*103*	*80-124*			
Surrogate: Dibromofluoromethane	*51.2*		*ug/L*	*50.00*		*102*	*75-129*			
Surrogate: Toluene-d8	*47.7*		*ug/L*	*50.00*		*95*	*77-123*			
LCS Dup (P6G0457-BSD1)				Prepared & Analyzed: 07/27/16						
1,1,1,2-Tetrachloroethane	20.7	0.50	ug/L	20.00		104	79-134	7	20	
1,1,1-Trichloroethane	19.4	0.50	ug/L	20.00		97	75-136	5	20	
1,1,2,2-Tetrachloroethane	20.3	0.50	ug/L	20.00		102	62-127	3	20	
1,1,2-Trichloroethane	21.3	0.50	ug/L	20.00		107	70-140	7	20	
1,1-Dichloroethane	22.8	0.50	ug/L	20.00		114	78-130	7	20	
1,1-Dichloroethylene	19.1	0.50	ug/L	20.00		95	70-154	20	20	
1,1-Dichloropropylene	18.4	0.50	ug/L	20.00		92	71-136	7	20	
1,2,3-Trichlorobenzene	21.6	2.0	ug/L	20.00		108	58-144	4	20	
1,2,3-Trichloropropane	20.2	1.0	ug/L	20.00		101	71-127	4	20	
1,2,4-Trichlorobenzene	21.0	1.0	ug/L	20.00		105	66-139	4	20	
1,2,4-Trimethylbenzene	21.4	0.50	ug/L	20.00		107	75-133	7	20	
1,2-Dibromo-3-chloropropane	20.6	2.0	ug/L	20.00		103	63-134	2	20	
1,2-Dibromoethane	22.2	0.50	ug/L	20.00		111	77-135	5	20	
1,2-Dichlorobenzene	20.6	0.50	ug/L	20.00		103	78-128	4	20	
1,2-Dichloroethane	22.9	0.50	ug/L	20.00		114	68-131	4	20	
1,2-Dichloropropane	21.3	0.50	ug/L	20.00		106	77-130	5	20	
1,3,5-Trimethylbenzene	19.1	0.50	ug/L	20.00		95	75-131	5	20	
1,3-Dichlorobenzene	19.4	0.50	ug/L	20.00		97	77-125	7	20	
1,3-Dichloropropane	20.6	0.50	ug/L	20.00		103	76-132	5	20	

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Prism Work Order: 6070389
Time Submitted: 7/26/2016 8:10:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6G0457 - 5030B										
LCS Dup (P6G0457-BSD1)				Prepared & Analyzed: 07/27/16						
1,4-Dichlorobenzene	20.1	0.50	ug/L	20.00		100	75-126	5	20	
2,2-Dichloropropane	22.0	2.0	ug/L	20.00		110	29-149	7	20	
2-Chlorotoluene	20.7	0.50	ug/L	20.00		103	74-126	6	20	
4-Chlorotoluene	20.9	0.50	ug/L	20.00		105	78-129	6	20	
4-Isopropyltoluene	20.1	0.50	ug/L	20.00		101	69-132	8	20	
Acetone	45.8	5.0	ug/L	40.00		115	40-166	17	20	
Acrolein	56.1	20	ug/L	40.00		140	70-130	21	20	D, L1
Acrylonitrile	47.3	20	ug/L	40.00		118	81-127	5	20	
Benzene	21.8	0.50	ug/L	20.00		109	77-128	7	20	
Bromobenzene	21.2	0.50	ug/L	20.00		106	78-129	5	20	
Bromochloromethane	22.4	0.50	ug/L	20.00		112	78-135	4	20	
Bromodichloromethane	23.5	0.50	ug/L	20.00		118	76-138	6	20	
Bromoform	18.7	1.0	ug/L	20.00		94	71-135	4	20	
Bromomethane	32.1	1.0	ug/L	20.00		160	41-168	3	20	
Carbon disulfide	22.2	5.0	ug/L	20.00		111	59-135	27	20	D
Carbon Tetrachloride	19.0	0.50	ug/L	20.00		95	72-142	6	20	
Chlorobenzene	20.8	0.50	ug/L	20.00		104	78-119	6	20	
Chloroethane	23.0	0.50	ug/L	20.00		115	57-142	8	20	
Chloroform	22.2	0.50	ug/L	20.00		111	77-130	5	20	
Chloromethane	39.3	0.50	ug/L	20.00		197	47-145	4	20	LH
cis-1,2-Dichloroethylene	22.6	0.50	ug/L	20.00		113	76-141	3	20	
cis-1,3-Dichloropropylene	23.2	0.50	ug/L	20.00		116	65-140	4	20	
Dibromochloromethane	19.5	0.50	ug/L	20.00		97	75-134	4	20	
Dibromomethane	22.3	0.50	ug/L	20.00		111	76-138	4	20	
Dichlorodifluoromethane	23.6	1.0	ug/L	20.00		118	28-163	7	20	
Ethylbenzene	20.6	0.50	ug/L	20.00		103	80-127	6	20	
Hexachlorobutadiene	20.1	2.0	ug/L	20.00		100	61-134	9	20	
Isopropyl Ether	24.0	0.50	ug/L	20.00		120	60-154	6	20	
Isopropylbenzene (Cumene)	19.6	0.50	ug/L	20.00		98	70-130	6	20	
m,p-Xylenes	43.5	1.0	ug/L	40.00		109	77-133	6	20	
Methyl Butyl Ketone (2-Hexanone)	22.6	5.0	ug/L	20.00		113	64-137	4	20	
Methyl Ethyl Ketone (2-Butanone)	20.4	5.0	ug/L	20.00		102	71-134	12	20	
Methyl Isobutyl Ketone	23.1	5.0	ug/L	20.00		115	69-134	5	20	
Methylene Chloride	22.8	1.0	ug/L	20.00		114	73-131	11	20	
Methyl-tert-Butyl Ether	25.2	0.50	ug/L	20.00		126	68-135	6	20	
Naphthalene	21.2	1.0	ug/L	20.00		106	64-136	0.5	20	
n-Butylbenzene	18.5	1.0	ug/L	20.00		92	68-134	7	20	
n-Propylbenzene	20.2	0.50	ug/L	20.00		101	72-132	6	20	
o-Xylene	21.0	0.50	ug/L	20.00		105	78-128	6	20	
sec-Butylbenzene	17.8	0.50	ug/L	20.00		89	71-131	8	20	
Styrene	19.9	0.50	ug/L	20.00		99	78-129	6	20	
tert-Butylbenzene	17.3	0.50	ug/L	20.00		87	70-132	7	20	
Tetrachloroethylene	17.2	0.50	ug/L	20.00		86	80-129	8	20	
Toluene	21.5	0.50	ug/L	20.00		107	76-131	5	20	
trans-1,2-Dichloroethylene	21.8	0.50	ug/L	20.00		109	76-135	9	20	
trans-1,3-Dichloropropylene	20.2	0.50	ug/L	20.00		101	67-140	6	20	

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Hart & Hickman (Raleigh)
Attn: Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Prism Work Order: 6070389
Time Submitted: 7/26/2016 8:10:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6G0457 - 5030B										
LCS Dup (P6G0457-BSD1)				Prepared & Analyzed: 07/27/16						
Trichloroethylene	19.6	0.50	ug/L	20.00		98	77-133	7	20	
Trichlorofluoromethane	20.4	0.50	ug/L	20.00		102	62-148	4	20	
Vinyl acetate	24.1	2.0	ug/L	20.00		121	34-167	4	20	
Vinyl chloride	24.4	0.50	ug/L	20.00		122	57-141	3	20	
Surrogate: 4-Bromofluorobenzene	*51.4*		*ug/L*	*50.00*		*103*	*80-124*			
Surrogate: Dibromofluoromethane	*49.9*		*ug/L*	*50.00*		*100*	*75-129*			
Surrogate: Toluene-d8	*47.7*		*ug/L*	*50.00*		*95*	*77-123*			
Batch P6G0478 - 5030B										
Blank (P6G0478-BLK1)				Prepared & Analyzed: 07/28/16						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	2.0	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2,4-Trichlorobenzene	BRL	1.0	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrolein	BRL	20	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							

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Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Prism Work Order: 6070389
Time Submitted: 7/26/2016 8:10:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6G0478 - 5030B										
Blank (P6G0478-BLK1)				Prepared & Analyzed: 07/28/16						
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
Methyl-tert-Butyl Ether	BRL	0.50	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	1.0	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Surrogate: 4-Bromofluorobenzene	*51.0*		*ug/L*	*50.00*		*102*	*80-124*			
Surrogate: Dibromofluoromethane	*50.9*		*ug/L*	*50.00*		*102*	*75-129*			
Surrogate: Toluene-d8	*48.2*		*ug/L*	*50.00*		*96*	*77-123*			

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Attn: Leatha Moretz
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Project: JCI-001 Trion, Inc.

Prism Work Order: 6070389
Time Submitted: 7/26/2016 8:10:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6G0478 - 5030B										
LCS (P6G0478-BS1)				Prepared & Analyzed: 07/28/16						
1,1,1,2-Tetrachloroethane	21.1	0.50	ug/L	20.00		106	79-134			
1,1,1-Trichloroethane	20.9	0.50	ug/L	20.00		105	75-136			
1,1,2,2-Tetrachloroethane	19.8	0.50	ug/L	20.00		99	62-127			
1,1,2-Trichloroethane	22.0	0.50	ug/L	20.00		110	70-140			
1,1-Dichloroethane	24.7	0.50	ug/L	20.00		123	78-130			
1,1-Dichloroethylene	21.6	0.50	ug/L	20.00		108	70-154			
1,1-Dichloropropylene	20.4	0.50	ug/L	20.00		102	71-136			
1,2,3-Trichlorobenzene	22.0	2.0	ug/L	20.00		110	58-144			
1,2,3-Trichloropropane	20.0	1.0	ug/L	20.00		100	71-127			
1,2,4-Trichlorobenzene	21.2	1.0	ug/L	20.00		106	66-139			
1,2,4-Trimethylbenzene	22.4	0.50	ug/L	20.00		112	75-133			
1,2-Dibromo-3-chloropropane	19.5	2.0	ug/L	20.00		98	63-134			
1,2-Dibromoethane	22.4	0.50	ug/L	20.00		112	77-135			
1,2-Dichlorobenzene	20.8	0.50	ug/L	20.00		104	78-128			
1,2-Dichloroethane	23.5	0.50	ug/L	20.00		117	68-131			
1,2-Dichloropropane	22.7	0.50	ug/L	20.00		114	77-130			
1,3,5-Trimethylbenzene	19.8	0.50	ug/L	20.00		99	75-131			
1,3-Dichlorobenzene	20.1	0.50	ug/L	20.00		100	77-125			
1,3-Dichloropropane	21.0	0.50	ug/L	20.00		105	76-132			
1,4-Dichlorobenzene	20.5	0.50	ug/L	20.00		102	75-126			
2,2-Dichloropropane	23.8	2.0	ug/L	20.00		119	29-149			
2-Chlorotoluene	21.6	0.50	ug/L	20.00		108	74-126			
4-Chlorotoluene	21.5	0.50	ug/L	20.00		107	78-129			
4-Isopropyltoluene	21.6	0.50	ug/L	20.00		108	69-132			
Acetone	49.7	5.0	ug/L	40.00		124	40-166			
Acrolein	62.3	20	ug/L	40.00		156	70-130			LH
Acrylonitrile	51.3	20	ug/L	40.00		128	81-127			LH
Benzene	23.4	0.50	ug/L	20.00		117	77-128			
Bromobenzene	21.3	0.50	ug/L	20.00		107	78-129			
Bromochloromethane	22.6	0.50	ug/L	20.00		113	78-135			
Bromodichloromethane	24.5	0.50	ug/L	20.00		123	76-138			
Bromoform	17.6	1.0	ug/L	20.00		88	71-135			
Bromomethane	31.2	1.0	ug/L	20.00		156	41-168			
Carbon disulfide	24.9	5.0	ug/L	20.00		124	59-135			
Carbon Tetrachloride	19.5	0.50	ug/L	20.00		98	72-142			
Chlorobenzene	21.6	0.50	ug/L	20.00		108	78-119			
Chloroethane	24.2	0.50	ug/L	20.00		121	57-142			
Chloroform	23.6	0.50	ug/L	20.00		118	77-130			
Chloromethane	42.6	0.50	ug/L	20.00		213	47-145			LH
cis-1,2-Dichloroethylene	24.7	0.50	ug/L	20.00		123	76-141			
cis-1,3-Dichloropropylene	23.8	0.50	ug/L	20.00		119	65-140			
Dibromochloromethane	19.0	0.50	ug/L	20.00		95	75-134			
Dibromomethane	22.3	0.50	ug/L	20.00		112	76-138			
Dichlorodifluoromethane	28.2	1.0	ug/L	20.00		141	28-163			
Ethylbenzene	22.0	0.50	ug/L	20.00		110	80-127			
Hexachlorobutadiene	21.9	2.0	ug/L	20.00		110	61-134			

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Project: JCI-001 Trion, Inc.

Prism Work Order: 6070389
Time Submitted: 7/26/2016 8:10:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6G0478 - 5030B										
LCS (P6G0478-BS1)				Prepared & Analyzed: 07/28/16						
Isopropyl Ether	26.2	0.50	ug/L	20.00		131	60-154			
Isopropylbenzene (Cumene)	20.6	0.50	ug/L	20.00		103	70-130			
m,p-Xylenes	46.2	1.0	ug/L	40.00		115	77-133			
Methyl Butyl Ketone (2-Hexanone)	22.8	5.0	ug/L	20.00		114	64-137			
Methyl Ethyl Ketone (2-Butanone)	22.4	5.0	ug/L	20.00		112	71-134			
Methyl Isobutyl Ketone	23.9	5.0	ug/L	20.00		119	69-134			
Methylene Chloride	24.9	1.0	ug/L	20.00		124	73-131			
Methyl-tert-Butyl Ether	26.3	0.50	ug/L	20.00		131	68-135			
Naphthalene	19.8	1.0	ug/L	20.00		99	64-136			
n-Butylbenzene	19.8	1.0	ug/L	20.00		99	68-134			
n-Propylbenzene	21.2	0.50	ug/L	20.00		106	72-132			
o-Xylene	21.9	0.50	ug/L	20.00		110	78-128			
sec-Butylbenzene	19.1	0.50	ug/L	20.00		95	71-131			
Styrene	20.6	0.50	ug/L	20.00		103	78-129			
tert-Butylbenzene	18.5	0.50	ug/L	20.00		92	70-132			
Tetrachloroethylene	18.7	0.50	ug/L	20.00		94	80-129			
Toluene	22.9	0.50	ug/L	20.00		115	76-131			
trans-1,2-Dichloroethylene	23.9	0.50	ug/L	20.00		119	76-135			
trans-1,3-Dichloropropylene	20.5	0.50	ug/L	20.00		102	67-140			
Trichloroethylene	21.0	0.50	ug/L	20.00		105	77-133			
Trichlorofluoromethane	22.0	0.50	ug/L	20.00		110	62-148			
Vinyl acetate	27.9	2.0	ug/L	20.00		140	34-167			
Vinyl chloride	27.3	0.50	ug/L	20.00		136	57-141			
Surrogate: 4-Bromofluorobenzene	*50.0*		*ug/L*	*50.00*		*100*	*80-124*			
Surrogate: Dibromofluoromethane	*52.4*		*ug/L*	*50.00*		*105*	*75-129*			
Surrogate: Toluene-d8	*48.2*		*ug/L*	*50.00*		*96*	*77-123*			
LCS Dup (P6G0478-BSD1)				Prepared & Analyzed: 07/28/16						
1,1,1,2-Tetrachloroethane	20.2	0.50	ug/L	20.00		101	79-134	4	20	
1,1,1-Trichloroethane	20.0	0.50	ug/L	20.00		100	75-136	5	20	
1,1,2,2-Tetrachloroethane	21.0	0.50	ug/L	20.00		105	62-127	6	20	
1,1,2-Trichloroethane	21.7	0.50	ug/L	20.00		109	70-140	1	20	
1,1-Dichloroethane	23.5	0.50	ug/L	20.00		117	78-130	5	20	
1,1-Dichloroethylene	20.3	0.50	ug/L	20.00		101	70-154	6	20	
1,1-Dichloropropylene	19.2	0.50	ug/L	20.00		96	71-136	6	20	
1,2,3-Trichlorobenzene	21.7	2.0	ug/L	20.00		109	58-144	1	20	
1,2,3-Trichloropropane	20.7	1.0	ug/L	20.00		104	71-127	3	20	
1,2,4-Trichlorobenzene	21.0	1.0	ug/L	20.00		105	66-139	1	20	
1,2,4-Trimethylbenzene	21.6	0.50	ug/L	20.00		108	75-133	4	20	
1,2-Dibromo-3-chloropropane	20.6	2.0	ug/L	20.00		103	63-134	5	20	
1,2-Dibromoethane	22.7	0.50	ug/L	20.00		113	77-135	1	20	
1,2-Dichlorobenzene	20.8	0.50	ug/L	20.00		104	78-128	0.1	20	
1,2-Dichloroethane	23.8	0.50	ug/L	20.00		119	68-131	1	20	
1,2-Dichloropropane	22.1	0.50	ug/L	20.00		111	77-130	2	20	
1,3,5-Trimethylbenzene	19.2	0.50	ug/L	20.00		96	75-131	3	20	
1,3-Dichlorobenzene	19.9	0.50	ug/L	20.00		99	77-125	1	20	
1,3-Dichloropropane	21.0	0.50	ug/L	20.00		105	76-132	0.4	20	

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Prism Work Order: 6070389
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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6G0478 - 5030B										
LCS Dup (P6G0478-BSD1)				Prepared & Analyzed: 07/28/16						
1,4-Dichlorobenzene	20.3	0.50	ug/L	20.00		101	75-126	1	20	
2,2-Dichloropropane	22.3	2.0	ug/L	20.00		112	29-149	6	20	
2-Chlorotoluene	21.0	0.50	ug/L	20.00		105	74-126	2	20	
4-Chlorotoluene	21.2	0.50	ug/L	20.00		106	78-129	1	20	
4-Isopropyltoluene	20.6	0.50	ug/L	20.00		103	69-132	5	20	
Acetone	50.4	5.0	ug/L	40.00		126	40-166	1	20	
Acrolein	64.2	20	ug/L	40.00		161	70-130	3	20	LH
Acrylonitrile	53.8	20	ug/L	40.00		134	81-127	5	20	LH
Benzene	22.4	0.50	ug/L	20.00		112	77-128	5	20	
Bromobenzene	20.9	0.50	ug/L	20.00		105	78-129	2	20	
Bromochloromethane	22.6	0.50	ug/L	20.00		113	78-135	0.04	20	
Bromodichloromethane	24.0	0.50	ug/L	20.00		120	76-138	2	20	
Bromoform	17.8	1.0	ug/L	20.00		89	71-135	1	20	
Bromomethane	31.1	1.0	ug/L	20.00		155	41-168	0.5	20	
Carbon disulfide	23.4	5.0	ug/L	20.00		117	59-135	6	20	
Carbon Tetrachloride	19.2	0.50	ug/L	20.00		96	72-142	2	20	
Chlorobenzene	20.8	0.50	ug/L	20.00		104	78-119	4	20	
Chloroethane	25.0	0.50	ug/L	20.00		125	57-142	3	20	
Chloroform	22.8	0.50	ug/L	20.00		114	77-130	3	20	
Chloromethane	41.6	0.50	ug/L	20.00		208	47-145	2	20	LH
cis-1,2-Dichloroethylene	23.4	0.50	ug/L	20.00		117	76-141	5	20	
cis-1,3-Dichloropropylene	23.5	0.50	ug/L	20.00		117	65-140	1	20	
Dibromochloromethane	18.5	0.50	ug/L	20.00		93	75-134	3	20	
Dibromomethane	22.9	0.50	ug/L	20.00		115	76-138	3	20	
Dichlorodifluoromethane	23.0	1.0	ug/L	20.00		115	28-163	21	20	D
Ethylbenzene	20.9	0.50	ug/L	20.00		104	80-127	5	20	
Hexachlorobutadiene	20.2	2.0	ug/L	20.00		101	61-134	8	20	
Isopropyl Ether	25.4	0.50	ug/L	20.00		127	60-154	3	20	
Isopropylbenzene (Cumene)	19.7	0.50	ug/L	20.00		99	70-130	4	20	
m,p-Xylenes	44.0	1.0	ug/L	40.00		110	77-133	5	20	
Methyl Butyl Ketone (2-Hexanone)	24.4	5.0	ug/L	20.00		122	64-137	7	20	
Methyl Ethyl Ketone (2-Butanone)	24.7	5.0	ug/L	20.00		123	71-134	10	20	
Methyl Isobutyl Ketone	25.6	5.0	ug/L	20.00		128	69-134	7	20	
Methylene Chloride	23.9	1.0	ug/L	20.00		120	73-131	4	20	
Methyl-tert-Butyl Ether	26.2	0.50	ug/L	20.00		131	68-135	0.08	20	
Naphthalene	21.4	1.0	ug/L	20.00		107	64-136	8	20	
n-Butylbenzene	18.8	1.0	ug/L	20.00		94	68-134	5	20	
n-Propylbenzene	20.2	0.50	ug/L	20.00		101	72-132	5	20	
o-Xylene	20.9	0.50	ug/L	20.00		105	78-128	5	20	
sec-Butylbenzene	18.2	0.50	ug/L	20.00		91	71-131	5	20	
Styrene	19.8	0.50	ug/L	20.00		99	78-129	4	20	
tert-Butylbenzene	17.6	0.50	ug/L	20.00		88	70-132	4	20	
Tetrachloroethylene	17.6	0.50	ug/L	20.00		88	80-129	6	20	
Toluene	22.1	0.50	ug/L	20.00		111	76-131	4	20	
trans-1,2-Dichloroethylene	22.2	0.50	ug/L	20.00		111	76-135	7	20	
trans-1,3-Dichloropropylene	20.3	0.50	ug/L	20.00		102	67-140	0.6	20	

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Hart & Hickman (Raleigh)
Attn: Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Prism Work Order: 6070389
Time Submitted: 7/26/2016 8:10:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6G0478 - 5030B										
LCS Dup (P6G0478-BSD1)				Prepared & Analyzed: 07/28/16						
Trichloroethylene	20.2	0.50	ug/L	20.00		101	77-133	4	20	
Trichlorofluoromethane	22.2	0.50	ug/L	20.00		111	62-148	1	20	
Vinyl acetate	28.5	2.0	ug/L	20.00		142	34-167	2	20	
Vinyl chloride	26.3	0.50	ug/L	20.00		131	57-141	4	20	
Surrogate: 4-Bromofluorobenzene	*51.9*		*ug/L*	*50.00*		*104*	*80-124*			
Surrogate: Dibromofluoromethane	*52.6*		*ug/L*	*50.00*		*105*	*75-129*			
Surrogate: Toluene-d8	*49.3*		*ug/L*	*50.00*		*99*	*77-123*			

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Hart & Hickman (Raleigh)
Attn: Leatha Moretz
3334 Hillsborough St.
Raleigh, NC 27607

Project: JCI-001 Trion, Inc.

Prism Work Order: 6070389
Time Submitted: 7/26/2016 8:10:00AM

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6G0448 - NO PREP										
Blank (P6G0448-BLK1)				Prepared & Analyzed: 07/26/16						
Chloride	BRL	1.0	mg/L							
Nitrate as N	BRL	0.10	mg/L							
Sulfate	BRL	1.0	mg/L							
LCS (P6G0448-BS1)				Prepared & Analyzed: 07/26/16						
Chloride	41.5	1.0	mg/L	40.00		104	80-120			
Nitrate as N	4.16	0.10	mg/L	4.000		104	80-120			
Sulfate	41.0	1.0	mg/L	40.20		102	80-120			
Matrix Spike (P6G0448-MS1)		**Source: 6070389-02**		Prepared & Analyzed: 07/26/16						
Chloride	45.8	1.0	mg/L	40.00	3.98	104	80-120			
Nitrate as N	4.17	0.10	mg/L	4.000	0.0310	103	80-120			
Sulfate	42.1	1.0	mg/L	40.20	1.66	100	80-120			
Matrix Spike Dup (P6G0448-MSD1)		**Source: 6070389-02**		Prepared & Analyzed: 07/26/16						
Chloride	44.9	1.0	mg/L	40.00	3.98	102	80-120	2	15	
Nitrate as N	4.08	0.10	mg/L	4.000	0.0310	101	80-120	2	15	
Sulfate	41.3	1.0	mg/L	40.20	1.66	99	80-120	2	15	

Sample Extraction Data

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
6070389-01	P6G0457	10 mL	10 mL	07/27/16 8:56
6070389-02	P6G0457	10 mL	10 mL	07/27/16 8:56
6070389-03	P6G0457	10 mL	10 mL	07/27/16 8:56
6070389-04	P6G0457	10 mL	10 mL	07/27/16 8:56
6070389-05	P6G0457	10 mL	10 mL	07/27/16 8:56
6070389-05	P6G0457	10 mL	10 mL	07/27/16 8:56
6070389-06	P6G0478	10 mL	10 mL	07/28/16 8:39
6070389-07	P6G0478	10 mL	10 mL	07/28/16 8:39
6070389-08	P6G0478	10 mL	10 mL	07/28/16 8:39
6070389-09	P6G0478	10 mL	10 mL	07/28/16 8:39
6070389-10	P6G0478	10 mL	10 mL	07/28/16 8:39
6070389-11	P6G0478	10 mL	10 mL	07/28/16 8:39

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Subcontracted Analyses

The following analyses were subcontracted to Gulf Coast Analytical Labs, Inc.

Lab Number	Analysis
6070389-01	RSK175 (Sub)
6070389-01	TOC (Sub)
6070389-02	RSK175 (Sub)
6070389-02	TOC (Sub)
6070389-03	RSK175 (Sub)
6070389-03	TOC (Sub)
6070389-04	RSK175 (Sub)
6070389-04	TOC (Sub)
6070389-05	RSK175 (Sub)
6070389-05	TOC (Sub)
6070389-06	RSK175 (Sub)
6070389-06	TOC (Sub)
6070389-07	RSK175 (Sub)
6070389-07	TOC (Sub)
6070389-08	RSK175 (Sub)
6070389-08	TOC (Sub)
6070389-09	RSK175 (Sub)
6070389-09	TOC (Sub)
6070389-10	RSK175 (Sub)
6070389-10	TOC (Sub)

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____

Client Company Name: Hart & Hickman
Report To/Contact Name: Cynthia Moretz
Reporting Address: 3334 Hillsborough St Raleigh NC
Phone: _____ Fax (Yes) (No): _____
Email Address: CSMORETZ@HartHickman.com
EDD Type: PDF ✓ Excel ✓ Other _____
Site Location Name: Trion
Site Location Physical Address: Sanford, NC

Project Name: SCI 001
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Accounts payable@HartHickman.com
Address: _____

Purchase Order No./Billing Reference SCI-001
Requested Due Date ☐ 1 Day ☑ 2 Days ☐ 3 Days ☐ 4 Days ☑ 5 Days Std Hr
"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?	✓		
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: 1KEH Observed: 2.8 °C / Corr: 2.7 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ DoD____ FL____ NC ✓ SC____ OTHER_____ N/A_____
Water Chlorinated: YES ✓ NO___
Sample Iced Upon Collection: YES ✓ NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	VOC	TOC	MGB	Chloride Sulfate Sulfate			REMARKS	PRISM LAB ID NO.
TMW-1	7/25/16	1035	W	VOA, AVOA, P	6, 3, 1	40ml, 500ml	HCl, NaOH	✓	✓	✓	✓				01
DMW-1	↓	1340	↓	↓	↓	↓	↓	✓	✓	✓	✓				02
TMW-4	↓	935	↓	↓	↓	↓	↓	✓	✓	✓	✓				03
MW-7	↓	835	↓	↓	↓	↓	↓	✓	✓	✓	✓				04
MW-8	↓	1540	↓	↓	↓	↓	↓	✓	✓	✓	✓				05
MW-13	↓	1105	↓	↓	↓	↓	↓	✓	✓	✓	✓				06
MW-14	↓	1500	↓	↓	↓	↓	↓	✓	✓	✓	✓				07
MW-16	↓	1430	↓	↓	↓	↓	↓	✓	✓	✓	✓				08
MW-17	↓	1345	↓	↓	↓	↓	↓	✓	✓	✓	✓				09

Sampler's Signature [signature] Sampled By (Print Name) Cynthia Moretz Affiliation Hart & Hickman

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature]	[signature]	7/25/16	
Relinquished By: (Signature)	Received By: (Signature)	7/26/16	0745
Relinquished By: (Signature)	Received For Prism Laboratories By:	7/26/16	0810

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☑ Other Brought 1 - Cooler

COC Group No. 6070389

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

CODES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☑ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
	☐	☐	☐	☐	☐	☐	☐	☐

CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2 QUOTE # TO ENSURE PROPER BILLING: _____

Client Company Name: Hart & Hickman
Report To/Contact Name: Leatha Moretz
Reporting Address: 3554 Hillsborough St Raleigh NC

Phone: _____ Fax (Yes) (No): _____
Email Address: LSMORETZ@HARTHICKMAN.com
EDD Type: PDF ✓ Excel ✓ Other _____
Site Location Name: Trion Inc
Site Location Physical Address: Sanford, NC

Project Name: JCI.001
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Accounts Payable @ Hart & Hickman
Address: _____

Purchase Order No./Billing Reference JCI.001
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☑ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?	✓		
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: JCI-11 Observed 2.8 °C / Corr 2.7 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ DoD____ FL____ NC ✓ SC____ OTHER_____ N/A_____
Water Chlorinated: YES ✓ NO___
Sample Iced Upon Collection: YES ✓ NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	VOC	TCL	MGE	Arsenic			REMARKS	PRISM LAB ID NO.
DuP-1	7/25/16		W	VOA, AVOA, P	6, 3, 1	40ml, 500ml	HCL, Vapro	✓	✓	✓	✓				10
Trip Blank			W	VOA	2	40ml								~~Not Rec'd @ Lab~~ (nag)	11

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature: [signature] Sampled By (Print Name) Leatha Moretz Affiliation Hart & Hickman

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature)	Received By: (Signature) [signature]	7/25/16	
Relinquished By: (Signature)	Received By: (Signature) [signature]	7/26/16	0945
Relinquished By: (Signature) [signature]	Received For Prism Laboratories By: [signature]	7/26/16	0810

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☒ Other Courier

COC Group No. 6070389

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

CODES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
NC ☐ SC	☐ NC ☐ SC	☑ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____

CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

ACCESS
ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT
Prism Laboratories, Inc.
PO BOX 240543
Charlotte, NC 28224

ATTENTION
Cara Rusmisell

PROJECT ID
6070389

LABORATORY REPORT NUMBER
216072706

DATE
08/03/2016

Primary Data Review By

Authorized Signature

Secondary Data Review By

Ashley B. Amick
Project Manager, Access Analytical, Inc.
aamick@accessanalyticalinc.com

PLEASE NOTE:

- **Unless otherwise noted, all analysis on this report performed at Gulf Coast Analytical Labs (GCAL), 7979 Innovation Park Dr., Baton Rouge, LA 70820.**
- **GCAL is SCDHEC certified laboratory # 73006, NCDENR certified lab # 618, GA certified lab # LA-01955, NELAP certified laboratory # 01955**
- Local support services for this project are provided by Access Analytical, Inc.. Access Analytical is a representative of GCAL serving clients in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll free at 888.315.4243.

GCAL
ANALYTICAL LABORATORIES, LLC

NELAP CERTIFICATE NUMBER: 01955
DOD ELAP CERTIFICATE NUMBER: L14-243

ANALYTICAL RESULTS

PERFORMED BY

GCAL, LLC
7979 Innovation Park Dr.
Baton Rouge, LA 70820

Report Date 08/03/2016

GCAL Report 216072706

Project 6070389

Deliver To	*Additional Recipients*
Cara Rusmisell Prism Laboratories, Inc. PO BOX 240543 Charlotte, NC 28224 706-529-6364	NONE

PJLA
Testing
DoD ELAP

ISO
17025

NELAP ACCREDITED
TNI
LABORATORY

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations that may be Utilized in this Report

ND	Indicates the result was Not Detected at the specified reporting limit
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
DL	Detection Limit
DL	Diluted analysis – when appended to Client Sample ID
LOD	Limit of Detection
LOQ	Limit of Quantitation
RE	Re-analysis
CF	HPLC or GC Confirmation
00:01	Reported as a time equivalent to 12:00 AM

Reporting Flags that may be Utilized in this Report

J or I	Indicates the result is between the MDL and LOQ
J	DOD flag on analyte in the parent sample for MS/MSD outside acceptance criteria
U	Indicates the compound was analyzed for but not detected
B or V	Indicates the analyte was detected in the associated Method Blank
Q	Indicates a non-compliant QC Result (See Q Flag Application Report)
*	Indicates a non-compliant or not applicable QC recovery or RPD – see narrative
E	The result is estimated because it exceeded the instrument calibration range
E	Metals - % diference for the serial dilution is > 10%
P	RPD between primary and confirmation result is greater than 40

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with The NELAC Institute (TNI) Standard 2009 and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Authorized Signature
GCAL Report 216072706

Certifications

Certification	Certification Number
DOD ELAP	L14-243
Alabama	01955
Arkansas	12-060-0
Colorado	01955
Delaware	01955
Florida	E87854
Georgia	01955
Hawaii	01955
Idaho	01955
Illinois	200048
Indiana	01955
Kansas	E-10354
Kentucky	95
Louisiana	01955
Maryland	01955
Massachusetts	01955
Michigan	01955
Mississippi	01955
Missouri	01955
Montana	N/A
Nebraska	01955
New Mexico	01955
North Carolina	618
North Dakota	R-195
Oklahoma	9403
South Carolina	73006001
South Dakota	01955
Tennessee	01955
Texas	T104704178
Vermont	01955
Virginia	460215
USDA Soil Permit	P330-10-00117

Case Narrative

Client: Access Analytical **Report:** 216072706

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the Report Sample Summary page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

No anomalies were found in the analyzed sample(s).

Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21607270601	TMW-1	Water	07/25/2016 10:35	07/27/2016 09:53
21607270602	DWW-1	Water	07/25/2016 13:40	07/27/2016 09:53
21607270603	TMW-4	Water	07/25/2016 09:35	07/27/2016 09:53
21607270604	MW-7	Water	07/25/2016 08:35	07/27/2016 09:53
21607270605	MW-8	Water	07/25/2016 15:40	07/27/2016 09:53
21607270606	MW-13	Water	07/25/2016 11:05	07/27/2016 09:53
21607270607	MW-14	Water	07/25/2016 15:00	07/27/2016 09:53
21607270608	MW-16	Water	07/25/2016 14:30	07/27/2016 09:53
21607270609	MW-17	Water	07/25/2016 13:45	07/27/2016 09:53
21607270610	DUP-1	Water	07/25/2016 00:00	07/27/2016 09:53

Summary of Compounds Detected

TMW-1

Collect Date 07/25/2016 10:35 | GCAL ID 21607270601
Receive Date 07/27/2016 09:53 | Matrix Water

EPA RSK-175

CAS#	Parameter	Result	DL	LOQ	Units
74-85-1	Ethene	0.456J	0.150	1.00	ug/L
74-82-8	Methane	2.33	0.435	2.00	ug/L

EPA 9060A

CAS#	Parameter	Result	DL	LOQ	Units
C-012	Total Organic Carbon	6.5	0.30	2.0	mg/L

DWW-1

Collect Date 07/25/2016 13:40 | GCAL ID 21607270602
Receive Date 07/27/2016 09:53 | Matrix Water

EPA RSK-175

CAS#	Parameter	Result	DL	LOQ	Units
74-82-8	Methane	2.13	0.435	2.00	ug/L

EPA 9060A

CAS#	Parameter	Result	DL	LOQ	Units
C-012	Total Organic Carbon	3.1	0.30	2.0	mg/L

TMW-4

Collect Date 07/25/2016 09:35 | GCAL ID 21607270603
Receive Date 07/27/2016 09:53 | Matrix Water

EPA RSK-175

CAS#	Parameter	Result	DL	LOQ	Units
74-82-8	Methane	2.12	0.435	2.00	ug/L

Summary of Compounds Detected

TMW-4	Collect Date	07/25/2016 09:35	GCAL ID	21607270603
	Receive Date	07/27/2016 09:53	Matrix	Water

EPA 9060A

CAS#	Parameter	Result	DL	LOQ	Units
C-012	Total Organic Carbon	1.7J	0.30	2.0	mg/L

MW-7	Collect Date	07/25/2016 08:35	GCAL ID	21607270604
	Receive Date	07/27/2016 09:53	Matrix	Water

EPA RSK-175

CAS#	Parameter	Result	DL	LOQ	Units
74-82-8	Methane	0.722J	0.435	2.00	ug/L

EPA 9060A

CAS#	Parameter	Result	DL	LOQ	Units
C-012	Total Organic Carbon	3.3	0.30	2.0	mg/L

MW-8	Collect Date	07/25/2016 15:40	GCAL ID	21607270605
	Receive Date	07/27/2016 09:53	Matrix	Water

EPA 9060A

CAS#	Parameter	Result	DL	LOQ	Units
C-012	Total Organic Carbon	3.0	0.30	2.0	mg/L

MW-13	Collect Date	07/25/2016 11:05	GCAL ID	21607270606
	Receive Date	07/27/2016 09:53	Matrix	Water

EPA 9060A

CAS#	Parameter	Result	DL	LOQ	Units
C-012	Total Organic Carbon	2.6	0.30	2.0	mg/L

Summary of Compounds Detected

MW-14	Collect Date	07/25/2016 15:00	GCAL ID	21607270607
	Receive Date	07/27/2016 09:53	Matrix	Water

EPA 9060A

CAS#	Parameter	Result	DL	LOQ	Units
C-012	Total Organic Carbon	2.3	0.30	2.0	mg/L

MW-16	Collect Date	07/25/2016 14:30	GCAL ID	21607270608
	Receive Date	07/27/2016 09:53	Matrix	Water

EPA 9060A

CAS#	Parameter	Result	DL	LOQ	Units
C-012	Total Organic Carbon	3.9	0.30	2.0	mg/L

MW-17	Collect Date	07/25/2016 13:45	GCAL ID	21607270609
	Receive Date	07/27/2016 09:53	Matrix	Water

EPA RSK-175

CAS#	Parameter	Result	DL	LOQ	Units
74-82-8	Methane	0.729J	0.435	2.00	ug/L

EPA 9060A

CAS#	Parameter	Result	DL	LOQ	Units
C-012	Total Organic Carbon	7.5	0.30	2.0	mg/L

DUP-1	Collect Date	07/25/2016 00:00	GCAL ID	21607270610
	Receive Date	07/27/2016 09:53	Matrix	Water

EPA 9060A

CAS#	Parameter	Result	DL	LOQ	Units
C-012	Total Organic Carbon	2.7	0.30	2.0	mg/L

Sample Results

TMW-1	Collect Date	07/25/2016 10:35	GCAL ID	21607270601
	Receive Date	07/27/2016 09:53	Matrix	Water

EPA RSK-175

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	08/02/2016 12:06	BMR	591825

CAS#	Parameter	Result	DL	LOQ	Units
74-84-0	Ethane	0.110U	0.110	1.00	ug/L
74-85-1	**Ethene**	**0.456J**	**0.150**	**1.00**	**ug/L**
74-82-8	**Methane**	**2.33**	**0.435**	**2.00**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	34.2	ug/L	84	40 - 143

EPA 9060A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	07/27/2016 19:56	JEM	591525

CAS#	Parameter	Result	DL	LOQ	Units
C-012	**Total Organic Carbon**	**6.5**	**0.30**	**2.0**	**mg/L**

DWW-1	Collect Date	07/25/2016 13:40	GCAL ID	21607270602
	Receive Date	07/27/2016 09:53	Matrix	Water

EPA RSK-175

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	08/02/2016 12:21	BMR	591825

CAS#	Parameter	Result	DL	LOQ	Units
74-84-0	Ethane	0.110U	0.110	1.00	ug/L
74-85-1	Ethene	0.150U	0.150	1.00	ug/L
74-82-8	**Methane**	**2.13**	**0.435**	**2.00**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	37.5	ug/L	93	40 - 143

Sample Results

DWW-1	Collect Date	07/25/2016 13:40	GCAL ID	21607270602
	Receive Date	07/27/2016 09:53	Matrix	Water

EPA 9060A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	07/27/2016 22:00	JEM	591525

CAS#	Parameter	Result	DL	LOQ	Units
C-012	Total Organic Carbon	3.1	0.30	2.0	mg/L

TMW-4	Collect Date	07/25/2016 09:35	GCAL ID	21607270603
	Receive Date	07/27/2016 09:53	Matrix	Water

EPA RSK-175

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	08/02/2016 12:26	BMR	591825

CAS#	Parameter	Result	DL	LOQ	Units
74-84-0	Ethane	0.110U	0.110	1.00	ug/L
74-85-1	Ethene	0.150U	0.150	1.00	ug/L
74-82-8	Methane	2.12	0.435	2.00	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	37.8	ug/L	93	40 - 143

EPA 9060A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	07/27/2016 22:23	JEM	591525

CAS#	Parameter	Result	DL	LOQ	Units
C-012	Total Organic Carbon	1.7J	0.30	2.0	mg/L

Sample Results

MW-7	Collect Date	07/25/2016 08:35	GCAL ID	21607270604
	Receive Date	07/27/2016 09:53	Matrix	Water

EPA RSK-175

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	08/02/2016 12:31	BMR	591825

CAS#	Parameter	Result	DL	LOQ	Units
74-84-0	Ethane	0.110U	0.110	1.00	ug/L
74-85-1	Ethene	0.150U	0.150	1.00	ug/L
74-82-8	**Methane**	**0.722J**	**0.435**	**2.00**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	34.9	ug/L	86	40 - 143

EPA 9060A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	07/27/2016 22:45	JEM	591525

CAS#	Parameter	Result	DL	LOQ	Units
C-012	**Total Organic Carbon**	**3.3**	**0.30**	**2.0**	**mg/L**

MW-8	Collect Date	07/25/2016 15:40	GCAL ID	21607270605
	Receive Date	07/27/2016 09:53	Matrix	Water

EPA RSK-175

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	08/02/2016 12:38	BMR	591825

CAS#	Parameter	Result	DL	LOQ	Units
74-84-0	Ethane	0.110U	0.110	1.00	ug/L
74-85-1	Ethene	0.150U	0.150	1.00	ug/L
74-82-8	Methane	0.435U	0.435	2.00	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	36.2	ug/L	89	40 - 143

Sample Results

MW-8	Collect Date	07/25/2016 15:40	GCAL ID	21607270605
	Receive Date	07/27/2016 09:53	Matrix	Water

EPA 9060A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	07/27/2016 23:06	JEM	591525

CAS#	Parameter	Result	DL	LOQ	Units
C-012	Total Organic Carbon	3.0	0.30	2.0	mg/L

MW-13	Collect Date	07/25/2016 11:05	GCAL ID	21607270606
	Receive Date	07/27/2016 09:53	Matrix	Water

EPA RSK-175

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	08/02/2016 12:44	BMR	591825

CAS#	Parameter	Result	DL	LOQ	Units
74-84-0	Ethane	0.110U	0.110	1.00	ug/L
74-85-1	Ethene	0.150U	0.150	1.00	ug/L
74-82-8	Methane	0.435U	0.435	2.00	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	36.5	ug/L	90	40 - 143

EPA 9060A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	07/27/2016 23:27	JEM	591525

CAS#	Parameter	Result	DL	LOQ	Units
C-012	Total Organic Carbon	2.6	0.30	2.0	mg/L

Sample Results

MW-14	Collect Date	07/25/2016 15:00	GCAL ID	21607270607
	Receive Date	07/27/2016 09:53	Matrix	Water

EPA RSK-175

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	08/02/2016 12:55	BMR	591825

CAS#	Parameter	Result	DL	LOQ	Units
74-84-0	Ethane	0.110U	0.110	1.00	ug/L
74-85-1	Ethene	0.150U	0.150	1.00	ug/L
74-82-8	Methane	0.435U	0.435	2.00	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	34.2	ug/L	84	40 - 143

EPA 9060A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	07/28/2016 08:20	JEM	591525

CAS#	Parameter	Result	DL	LOQ	Units
C-012	Total Organic Carbon	2.3	0.30	2.0	mg/L

MW-16	Collect Date	07/25/2016 14:30	GCAL ID	21607270608
	Receive Date	07/27/2016 09:53	Matrix	Water

EPA RSK-175

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	08/02/2016 13:18	BMR	591825

CAS#	Parameter	Result	DL	LOQ	Units
74-84-0	Ethane	0.110U	0.110	1.00	ug/L
74-85-1	Ethene	0.150U	0.150	1.00	ug/L
74-82-8	Methane	0.435U	0.435	2.00	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	39.2	ug/L	97	40 - 143

Sample Results

MW-16	Collect Date	07/25/2016 14:30	GCAL ID	21607270608
	Receive Date	07/27/2016 09:53	Matrix	Water

EPA 9060A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	07/28/2016 08:41	JEM	591525

CAS#	Parameter	Result	DL	LOQ	Units
C-012	Total Organic Carbon	3.9	0.30	2.0	mg/L

MW-17	Collect Date	07/25/2016 13:45	GCAL ID	21607270609
	Receive Date	07/27/2016 09:53	Matrix	Water

EPA RSK-175

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	08/02/2016 13:31	BMR	591825

CAS#	Parameter	Result	DL	LOQ	Units
74-84-0	Ethane	0.110U	0.110	1.00	ug/L
74-85-1	Ethene	0.150U	0.150	1.00	ug/L
74-82-8	Methane	0.729J	0.435	2.00	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	37.4	ug/L	92	40 - 143

EPA 9060A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	07/28/2016 10:14	JEM	591525

CAS#	Parameter	Result	DL	LOQ	Units
C-012	Total Organic Carbon	7.5	0.30	2.0	mg/L

Sample Results

DUP-1	Collect Date	07/25/2016 00:00	GCAL ID	21607270610
	Receive Date	07/27/2016 09:53	Matrix	Water

EPA RSK-175

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	08/02/2016 13:37	BMR	591825

CAS#	Parameter	Result	DL	LOQ	Units
74-84-0	Ethane	0.110U	0.110	1.00	ug/L
74-85-1	Ethene	0.150U	0.150	1.00	ug/L
74-82-8	Methane	0.435U	0.435	2.00	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	30.9	ug/L	76	40 - 143

EPA 9060A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	07/28/2016 10:35	JEM	591525

CAS#	Parameter	Result	DL	LOQ	Units
C-012	Total Organic Carbon	2.7	0.30	2.0	mg/L

GC Volatiles QC Summary

Analytical Batch 591825	Client ID	MB591825		LCS591825				LCSD591825				
	GCAL ID	1596137		1596138				1596139				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	08/02/2016 11:41		08/02/2016 11:55				08/02/2016 12:01				
	Matrix	Water		Water				Water				
EPA RSK-175		Units Result	ug/L DL	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Methane	74-82-8	0.435U	0.435	17.5	15.0	86	39 - 120	17.5	13.5	77	11	27
Ethene	74-85-1	0.150U	0.150	3.06	2.77	91	45 - 134	3.06	2.44	80	13	25
Ethane	74-84-0	0.110U	0.110	3.28	2.93	89	45 - 128	3.28	2.61	80	12	29
Surrogate												
Propene	115-07-1	47.4	117	40.5	28.6	71	40 - 143	40.5	25.5	63	NA	NA

General Chemistry QC Summary

Analytical Batch 591525	Client ID	MB591525		LCS591525				LCSD591525				
	GCAL ID	1594925		1594926				1594927				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	07/27/2016 19:35		07/27/2016 18:51				07/28/2016 09:05				
	Matrix	Water		Water				Water				
EPA 9060A		Units Result	mg/L DL	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Total Organic Carbon	C-012	0.30U	0.30	50.0	49.7	99	80 - 120	50.0	49.2	98	1	25

Analytical Batch 591525	Client ID	TMW-1		1594640MS				1594640MSD				
	GCAL ID	21607270601		1594928				1594929				
	Sample Type	SAMPLE		MS				MSD				
	Prep Date	NA		NA				NA				
	Analysis Date	07/27/2016 19:56		07/27/2016 21:19				07/27/2016 21:38				
	Matrix	Water		Water				Water				
EPA 9060A		Units Result	mg/L DL	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Total Organic Carbon	C-012	6.5	0.30	50.0	57.6	102	75 - 125	50.0	56.2	99	2	25

8 04 35, 16

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Sub FedEx Std. Overnite 7/26/16

SUBCONTRACT ORDER

Prism Laboratories, Inc.

6070389

Certification: ✓NELAC___ USACE___
NC✓___ SC___ Other _____
N/A_____

SENDING LABORATORY:

Prism Laboratories, Inc.
P. O. Box 240543
Charlotte, NC 28224-0543
Phone: 800-529-6364
Fax: 704-525-0409
Project Manager: Robbi A. Jones

RECEIVING LABORATORY:

Gulf Coast Analytical Labs, Inc.
7979 Innovation Park Drive
Baton Rouge, LA 70820
Phone :(225) 769-4900
Fax: (225) 767-5717

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 6070389-01	Water	Sampled:07/25/16 10:35	TMW-1 -1	
TOC (Sub)		08/22/16 10:35		Method 9060 for TOC's
RSK175 (Sub)		08/08/16 10:35		
Containers Supplied:				
* 2 HCL, 2 Amber HCL				
Sample ID: 6070389-02	Water	Sampled:07/25/16 13:40	DWW-1 -2	
RSK175 (Sub)		08/08/16 13:40		
TOC (Sub)		08/22/16 13:40		
Containers Supplied:				
* Same				
Sample ID: 6070389-03	Water	Sampled:07/25/16 09:35	TMW-4 -3	
RSK175 (Sub)		08/08/16 09:35		
TOC (Sub)		08/22/16 09:35		
Containers Supplied:				
* Same				
Sample ID: 6070389-04	Water	Sampled:07/25/16 08:35	MW-7 -4	
RSK175 (Sub)		08/08/16 08:35		
TOC (Sub)		08/22/16 08:35		
Containers Supplied:				
* Same				

Released By	Date	Received By	Date
[signature]	7/26/16	FedEx	7/26/16
FedEx	7/27/16	Dochie McCun GCAL	7-27-16 9:53
			1:9E36 44UPM

7708 4744 5310

Client ID: 4565 - Access Analytical
SDG: 216072706
PM: SAK

Page 1 of 2

SUBCONTRACT ORDER

Prism Laboratories, Inc.

6070389

Certification: ~~NELAC~~___ USACE___
NC ✓ SC___ Other _____
N/A_____

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 6070389-05	Water	Sampled:07/25/16 15:40	MW-8 -5	
TOC (Sub)		08/22/16 15:40		Method 9060 for TOC
RSK175 (Sub)		08/08/16 15:40		
Containers Supplied:				
* Same				
Sample ID: 6070389-06	Water	Sampled:07/25/16 11:05	MW-13 -6	
TOC (Sub)		08/22/16 11:05		
RSK175 (Sub)		08/08/16 11:05		
Containers Supplied:				
* Same				
Sample ID: 6070389-07	Water	Sampled:07/25/16 15:00	MW-14 -7	
RSK175 (Sub)		08/08/16 15:00		
TOC (Sub)		08/22/16 15:00		
Containers Supplied:				
* Same				
Sample ID: 6070389-08	Water	Sampled:07/25/16 14:30	MW-16 -8	
RSK175 (Sub)		08/08/16 14:30		
TOC (Sub)		08/22/16 14:30		
Containers Supplied:				
* Same				
Sample ID: 6070389-09	Water	Sampled:07/25/16 13:45	MW-17 -9	
RSK175 (Sub)		08/08/16 13:45		
TOC (Sub)		08/22/16 13:45		
Containers Supplied:				
* Same				
Sample ID: 6070389-10	Water	Sampled:07/25/16 00:00	DUP-1 -10	
TOC (Sub)		08/22/16 00:00		
RSK175 (Sub)		08/08/16 00:00		
Containers Supplied:				
* Same				

Client ID: 4565 - Access Analytical
SDG: 216072706
PM: SAK

Released By	Date	Received By	Date
[signature]	7/26/16	Fed Ex	7/26/16
Fed Ex	7/27/16	FedDocMrCane	7-27-16 9:50
		GCAL	

7768 4744 5310 1.9 F20 HAIDM

GCAL ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIVING CHECKLIST

216072706

SAMPLE DELIVERY GROUP 216072706	
Client PM SAK 4565 - Access Analytical	Transport Method FEDEX
Profile Number 80435	Received By McCune, Dodie N.
Line Item(s) 16 - TOC 9060/RSK	Receive Date(s) 07/27/16

CHECKLIST	YES	NO	NA
Samples received with proper thermal and chemical preservation?	✓		
Radioactivity is <1600 cmp? If no, record cmp value in notes section.	✓		
Custody seals present and intact?	✓		
COC relinquished and complete (including sample IDs, collect dates/times, and sampler name)?	✓		
Short holds or RUSH samples received?		✓	
All containers received in good condition and within hold time?	✓		
All sample labels and containers received match the chain of custody?	✓		
Preservation checked at receipt? Exceptions: VOC, Coliform, TOC, Oil and Grease, DOC			✓
Preservative added to any containers?		✓	
VOC water containers received with headspace < 6mm?			✓
Received filtered sample volume for dissolved analysis?			✓
Trip blank present in all coolers containing VOC waters?			✓
Samples collected in containers provided by GCAL?		✓	

COOLERS		
Airbill	Thermometer ID: E26	Temp(°C)
776847445310		1.9

DISCREPANCIES	LAB PRESERVATIONS
None	None

NOTES	

Revision 1.5

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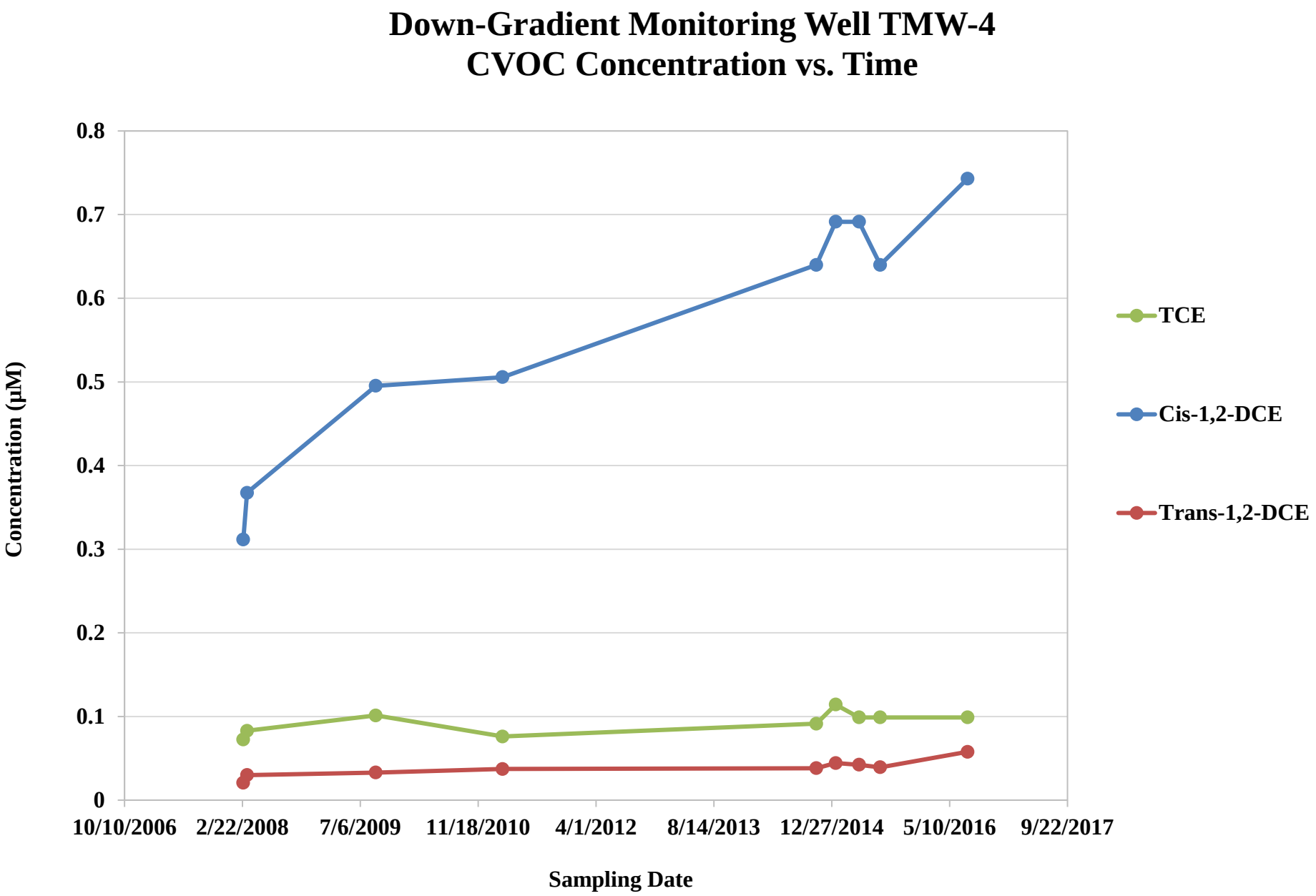
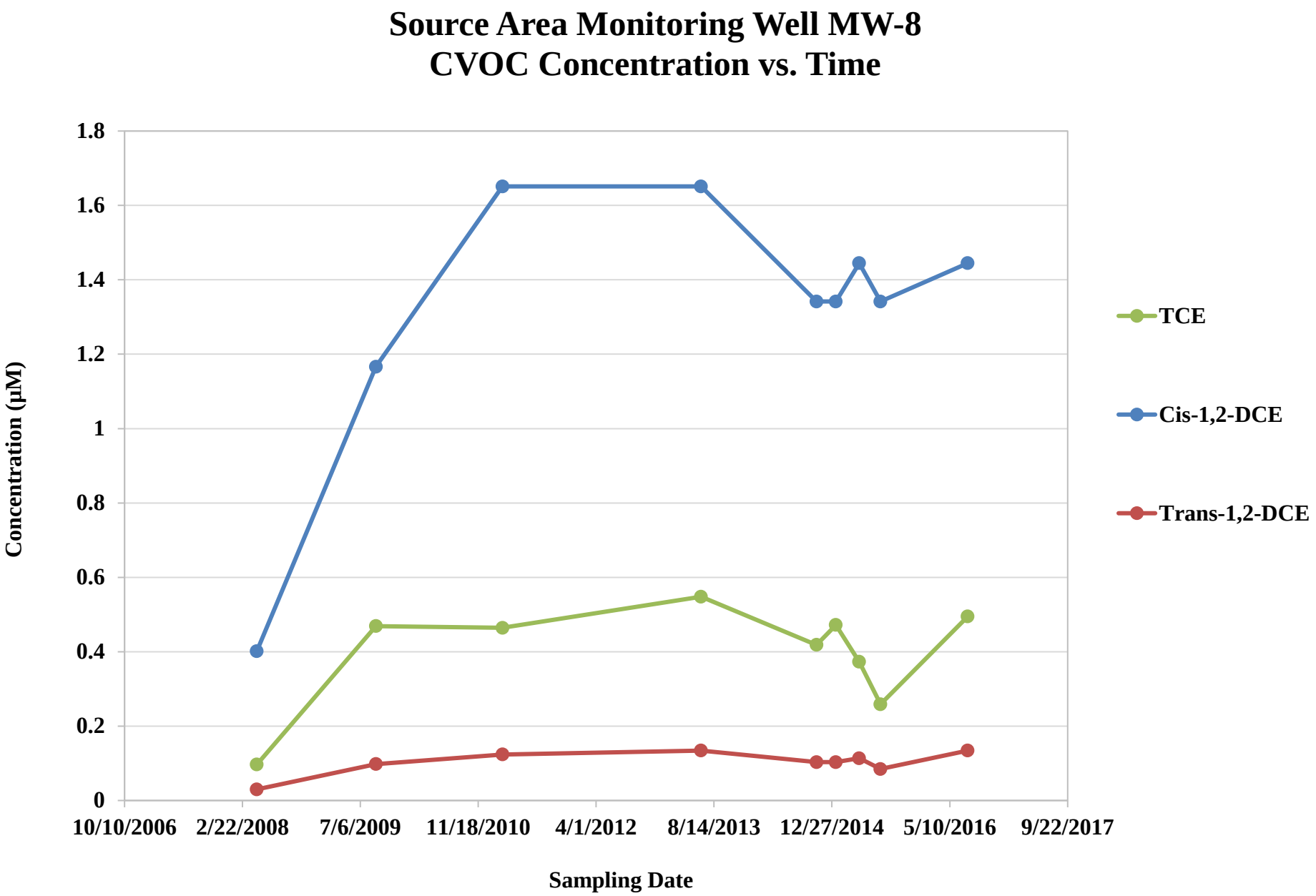
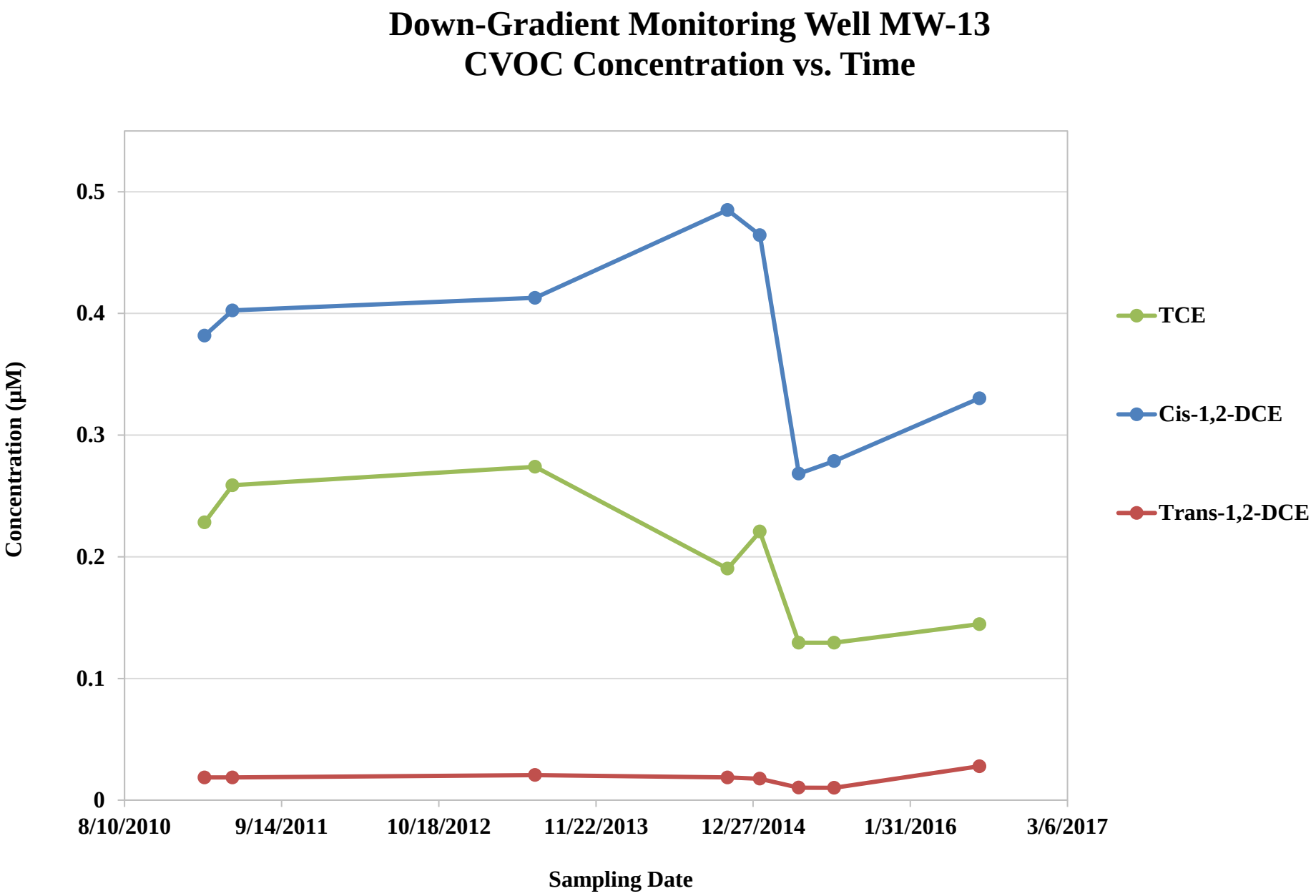
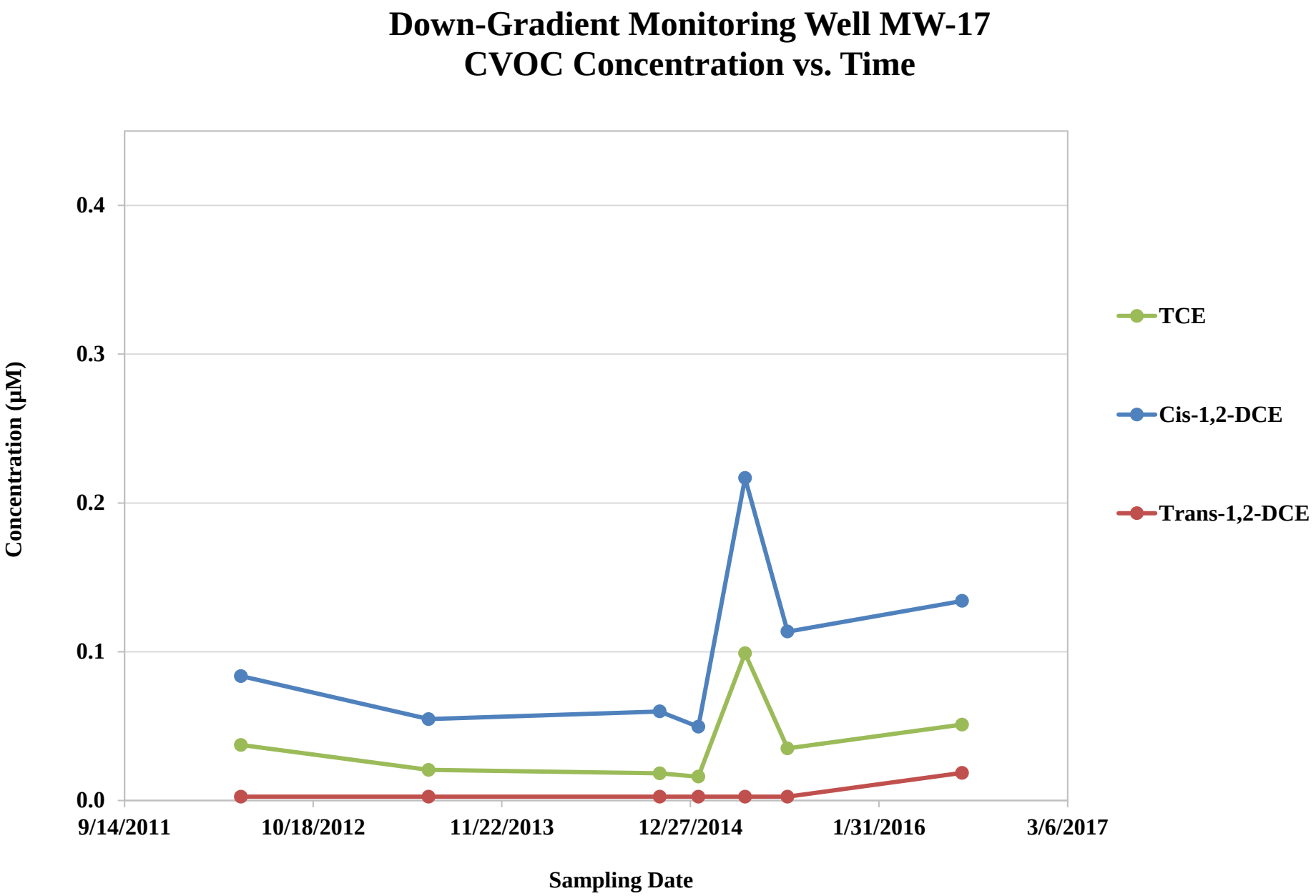
Appendix D

Contaminant Concentration Trend Graphs


Down-Gradient Monitoring Well TMW-4
CVOC Concentration vs. Time
Concentration (µM)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
Sampling Date
TCE
Cis-1,2-DCE
Trans-1,2-DCE


Source Area Monitoring Well MW-8
CVOC Concentration vs. Time
Concentration (µM)
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
Sampling Date
TCE
Cis-1,2-DCE
Trans-1,2-DCE


Down-Gradient Monitoring Well MW-13
CVOC Concentration vs. Time
Concentration (µM)
0.5
0.4
0.3
0.2
0.1
0
8/10/2010
9/14/2011
10/18/2012
11/22/2013
12/27/2014
1/31/2016
3/6/2017
Sampling Date
TCE
Cis-1,2-DCE
Trans-1,2-DCE


Down-Gradient Monitoring Well MW-17
CVOC Concentration vs. Time
Concentration (µM)
0.4
0.3
0.2
0.1
0.0
9/14/2011
10/18/2012
11/22/2013
12/27/2014
1/31/2016
3/6/2017
Sampling Date
TCE
Cis-1,2-DCE
Trans-1,2-DCE