

**Agency Name:**

**Minimum Control Measures. At a minimum provide the following information. Feel free to include additional information.**

- 1. How do you provide water quality brochures to the public? In office, online, or both?**
  
- 2. DuPage County hosts events and participates in municipal & township education and outreach events on behalf of partnering MS4. List any additional community events you participated in or hosted.**
  
- 3. DuPage County sponsors countywide volunteer programs such as Adopt a Stream and the Storm Drain Stenciling programs. List any additional volunteer programs you coordinate or sponsor.**
  
- 4. DuPage County hosts stakeholder meetings and workshops at various locations throughout the year. List any additional meetings you hosted.**
  
- 5. DuPage County conducts outfall inspections on behalf of permit partners for Illicit Discharge Detection and Elimination Program. Please list any additional inspections or if there were enforcement actions taken.**
  
- 6. Did your agency issue development permits for sites over 1 acre permit during the reporting year? (If no skip 7-10)**
  
- 7. Was every site over 1 acre required to provide soil erosion and sediment control measures?**
  
- 8. Did your agency conduct a soil erosion and sediment control plan review?**
  
- 9. Did you investigate all soil erosion and sediment control complaints received during the reporting year?**

- 10. Were construction sites inspected to ensure that soil erosion and sediment control requirements were being met?**
  
- 11. Does your agency issue permits for post construction best management practices? (If no skip 12-15)**
  
- 12. Were easements required over all site runoff storage facilities over one acre?**
  
- 13. Were three-year maintenance and monitoring periods required over BMPs containing native vegetation?**
  
- 14. Were these sites inspected during the establishment period?**
  
- 15. Did the supervisors who oversee maintenance of public surfaces attend a training on current green infrastructure, pollution prevention, and/or the de-icing workshop?**
  
- 16. Did your agency follow an established good housekeeping program of inspection and maintenance of equipment and facilities?**
  
- 17. Additional information you would like to provide? Feel free to include attachments.**



MARCH 2019 – FEBRUARY 2020

MS4 ANNUAL REPORT

ADDITIONAL ITEMS FROM PUBLIC WORKS/ ENV. SERVICES

**A. PUBLIC EDUCATION AND OUTREACH**

*(Nothing to report from PW/Environmental Services)*

**B. PUBLIC PARTICIPATION/INVOLVEMENT**

A public participation event took place on August 5th, 2019. The Village of Addison, in conjunction with Boy Scout Troop 410, conducted a local River Sweep event in Westwood Creek. We collected approximately 10, 30-gallon trash bags of debris from Westwood Creek. Our Environmental Services Division assisted in the coordination of the event as well the removal of debris. Our Public Works Streets Division disposed of all refuse.

**C. ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE)**

The development of an illicit discharge detection and elimination (IDDE) program has been completed and a local IDDE manual has been submitted with the 2016 Notice of Intent. The IDDE program was fully implemented in March, 2008. The IDDE program includes a prioritization plan, outfall visual screening, monitoring program, tracing, enforcement, and reporting.

The Village of Addison had identified 121 outfalls, and each was visually inspected and the conditions recorded during the reporting period. All outfalls were normal, and records of the inspections are available for review in our office.

There were several investigations performed over the past year related to pollution in the storm sewer system and local streams:

- We have had several complaints in April of 2019 about a failed septic system in unincorporated Addison. 4N153 Catalpa has admitted that his septic system has failed and is working with DuPage County to resolve. To date, the situation has not been resolved.
- There were two stormwater incidents in June of 2019, one in unincorporated Addison and the other within Village limits. DuPage County Stormwater and DuPage County Health

Department investigated the resident at 4N025 DuPage Ave. The owner had been having issues with a failed septic field. The resident at 1144 N. Anvil Ct had been covering up the stormwater drain in the backyard and hence creating flooding issues. The owner was notified and the case was sent to Community Development for enforcement.

- On July 12, 2019, our compliance inspector made note of numerous drums and tires being stored outside at a facility on 1780 W. Armitage Ct. The company, WAR, was notified of the storm water violation and asked to move the used tires and opened drums inside. The company has since complied and we will continue to monitor.
- On October 28, 2019, Jiffy Lube, 705 W. Lake St, discharged used motor oil overland and into the Village of Addison's storm sewer. Jiffy Lube cleaned the affected storm drains and placed oil absorbing booms in Westwood Creek. The IEPA was notified as well. Future inspections of this business will be done by our department and our Community Development department.
- On Nov. 19, 2019 we received an email regarding a possible illicit discharge at 333 S. Swift Rd, Iron Mountain. The email had been forwarded to us by Community Development and was originally reported by DuPage County Stormwater. Upon further investigation, no illicit discharge was discovered. However, we performed an inspection of the facility we believed to be the culprit. No evidence was found to confirm the illicit discharge.
- On Dec. 2, 2019 we received a complaint concerning flooding at 1756 W. Armitage Ct. Apparently the storm water line flowing south of this address was blocked. To remedy the property flooding, the company proceeded to pump the storm water into the street causing icy conditions. Community Development was notified and the property owner ceased the pumping. Community Development is working with the company to resolve the issue.
- On Dec. 30, 2019 we received a call concerning an oil spill on 135 W. Laura Dr., AVA Recycling. Apparently a company truck (small bed) had a puncture in the fuel tank. The spiller contacted a professional cleanup crew and oil booms were placed downstream in the storm water basins.
- On Tuesday, January 28, 2019, we received a call concerning an oil spill at 121 S. Iowa Ave. The spill was apparently a Republic Services garbage truck with a broken hydraulic line. Republic was notified and the spill was cleaned up. However, staining of the pavement was noted. Oil booms were placed in the affected drains and will be monitored by the Village.

Finally, the Village also performed periodic grab sampling and analysis at 21 of the 121 outfall points. A total of 105 screening samples were collected and 710 different field analyses were performed. Parameters tested included Metals, D.O., Temperature, Ammonia, Nitrate, Phosphate, Turbidity and pH. A summary of the monitoring data collected is attached in Section C. There were no high levels reported during the testing.



**F. POLLUTION PREVENTION/GOOD HOUSEKEEPING**

A training session on storm water pollution prevention was held with Public Works employees on April 10, 2019. The training focused on Pollution Prevention training for MS4 communities and was hosted by DuPage County Stormwater Management.

A training session was held on Nov. 19, 2019 for our Streets Department. The session was focused on the deicing of public roads and chloride reduction in our streams.

The annual public meeting was held on February 4, 2020 at the County Board Room at 421 North County Farm Road, Wheaton, Illinois.

A summary of the reportable data for several of the municipal activities is as follows:  
(Next page)



**ANNUAL MS4 REPORT – MUNICIPAL OPERATIONS REPORT  
TIME PERIOD: MARCH 1, 2018 TO FEBRUARY 28, 2019**

Street Sweeping (Minimum Control F.3):

4,056 Curb miles cleaned

5,029 Tons of debris removed from streets

Salt Usage (Minimum Control F.3):

1,924 Tons of salt used

8 Number of snow events (2" or greater)

18 Number of ice events

107 Tons of salt used per event

Sewer Catch Basin Cleaning (Minimum Control F.3):

681 # of Storm Sewer Catch Basins/Inlets cleaned and pumped (out of 2,200)

160 # of Combined Sewer Catch Basins/Inlets cleaned and pumped (out of 160)

Training (Minimum Control F.1):

√ Completed Pollution Prevention training for MS4 communities employees (Date: 4-10-19)

√ Completed annual Salt Usage/Salt Loading training (Date: 11-19-19)

√ Completed annual Public Meeting (Date: 2-04-20)



**SECTION C: Attach results of information collected and analyzed, including monitoring data, if any, during the reporting period.**

(See attached)



LOCATION: **18" SOUTH OF CHERRY**

	PHYS.			TEMP	DIS. OXY.	COPPER	ZINC	NITRATE	PHOS	CHROME	Last 24 hrs	Last 24 hrs	Last 24 hrs
DATE	COND.*	TIME	pH	(C°)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	HIGH TEMP.	LOW TEMP.	PRECIP.
4/2/19	NF	10:10AM									53.0	39.0	0.00
5/9/19	NF	2:15PM									67.0	46.0	0.79
6/18/19	NF	11:00AM									83.0	56.0	0.00
7/9/19	NF	2:05PM									88.0	61.0	0.00
<b>MAX</b>											88.0	61.0	0.79
<b>AVG.</b>											72.8	50.5	0.20
<b>MIN</b>											53.0	39.0	0.00

\* N-Normal      NF- No Flow      S-Sheen      F-Foam      C-Colored





LOCATION: **24" LAKE STREET**

	PHYS.			TEMP	DIS. OXY.	COPPER	ZINC	PHOS	NH4	Last 24 hrs	Last 24 hrs	Last 24 hrs
DATE	COND.*	TIME	pH	(C°)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	HIGH TEMP.	LOW TEMP.	PRECIP.
4/1/19	NF	10:45AM								49.0	26.0	0.00
4/30/19	N	10:15AM	8.10	12.2	9.57	0.15	0.13	33.00	0.08	47.0	38.0	0.28
6/18/19	NF	9:50AM								83.0	56.0	0.00
7/9/19	NF	1:25PM								88.0	61.0	0.00
<b>MAX</b>			8.10	12.2	9.57	0.15	0.13	33.00	0.08	88.0	61.0	0.28
<b>AVG.</b>			8.10	12.2	9.57	0.15	0.13	33.00	0.08	66.8	45.3	0.07
<b>MIN</b>			8.10	12.2	9.57	0.15	0.13	33.00	0.08	47.0	26.0	0.00

\* N-Normal      NF- No Flow      S-Sheen      F-Foam      C-Colored



LOCATION: 36" @PALMER (AJL)

	PHYS.			TEMP	DIS. OXY.	COPPER	ZINC	PHOS	Last 24 hrs	Last 24 hrs	Last 24 hrs
DATE	COND.*	TIME	pH	(C°)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	HIGH TEMP.	LOW TEMP.	PRECIP.
4/9/19	N	3:10PM	8.03	17.2	9.95	0.15	0.13	6.60	66.0	39.0	0.00
4/30/19	N	10:45AM	7.64	8.9	9.49	0.04	0.08	37.00	47.0	38.0	0.28
6/18/19	NF	10:40AM							83.0	56.0	0.00
7/9/19	N	2:00PM	8.00	28.0	9.40	0.04	0.05	2.60	88.0	61.0	0.00
<b>MAX</b>			8.03	28.0	9.95	0.15	0.13	37.00	88.0	61.0	0.28
<b>AVG.</b>			7.89	18.0	9.61	0.08	0.09	15.40	71.0	48.5	0.07
<b>MIN</b>			7.64	8.9	9.40	0.04	0.05	2.60	47.0	38.0	0.00

\* N-Normal      NF- No Flow      S-Sheen      F-Foam      C-Colored



LOCATION: **42" SOUTH OF CHERRY**

	PHYS.			TEMP	DIS. OXY.	COPPER	ZINC	NITRATE	PHOS	NH3	Last 24 hrs	Last 24 hrs	Last 24 hrs
DATE	COND.*	TIME	pH	(C°)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	HIGH TEMP.	LOW TEMP.	PRECIP.
4/2/19	N	11:00AM	7.73	10.9	10.00	0.11	0.03	1.50	1.74	0.03	53.0	39.0	0.00
5/22/19	N	10:20AM	8.15	15.0	8.36	0.01	0.11	1.50	12.50	0.02	82.0	49.0	0.59
6/18/19	N	1:20PM	8.04	19.9	10.00	0.02	0.07	1.50	31.00	0.05	83.0	56.0	0.00
7/12/19	NF	9:00 AM									87.0	59.0	0.00
<b>MAX</b>			8.15	19.9	10.00	0.11	0.11	1.50	31.00	0.05	87.0	59.0	0.59
<b>AVG.</b>			7.97	15.3	9.45	0.05	0.07	1.50	15.08	0.03	76.3	50.8	0.15
<b>MIN</b>			7.73	10.9	8.36	0.01	0.10	1.50	1.74	0.02	53.0	39.0	0.00

\* N-Normal      NF- No Flow      S-Sheen      F-Foam      C-Colored



LOCATION: **48" ADDISON & LORRAINE**

	PHYS.			TEMP	DIS. OXY.	COPPER	ZINC	PHOS	CHROME	Last 24 hrs	Last 24 hrs	Last 24 hrs
DATE	COND.*	TIME	pH	(C°)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	HIGH TEMP.	LOW TEMP.	PRECIP.
4/8/19	N	9:50 AM	7.76	13.3	9.01	0.13	0.39	4.3	0.15	47.0	38.0	1.00
5/22/19	N	10:05AM	8.01	13.7	8.74	0.15	0.13	48.0	0.07	82.0	49.0	0.59
6/18/19	NF	1:00PM								83.0	56.0	0.00
7/12/19	NF	2:15PM								87.0	59.0	0.00
<b>MAX</b>			8.01	13.7	9.01	0.15	0.39	48.0	0.15	87.0	59.0	1.00
<b>AVG.</b>			7.89	13.5	8.88	0.14	0.26	26.2	0.11	74.8	50.5	0.40
<b>MIN</b>			7.76	13.3	8.74	0.13	0.13	4.3	0.07	47.0	38.0	0.00

\* N-Normal      NF- No Flow      S-Sheen      F-Foam      C-Colored



LOCATION: **54" ADDISON & ARMITAGE**

	PHYS.			TEMP	DIS. OXY.	COPPER	ZINC	PHOS	Last 24 hrs	Last 24 hrs	Last 24 hrs
DATE	COND.*	TIME	pH	(C°)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	HIGH TEMP.	LOW TEMP.	PRECIP.
4/2/19	NF	9:55AM							53.0	39.0	0.00
5/22/19	N	9:50AM	8.20	8.1	19.0	0.08	0.03	54.00	82.0	49.0	0.59
6/18/19	NF	12:55PM							83.0	56.0	0.00
7/12/19	NF	2:00PM							87.0	59.0	0.00
<b>MAX</b>			8.20	8.1	19.0	0.08	0.03	54.00	87.0	59.0	0.59
<b>AVG.</b>			8.20	8.1	19.0	0.08	0.03	54.00	76.3	50.8	0.15
<b>MIN</b>			8.20	8.1	19.0	0.08	0.03	54.00	53.0	39.0	0.00

\* N-Normal      NF- No Flow      S-Sheen      F-Foam      C-Colored



LOCATION: **72" ODEUM**

	PHYS.			TEMP	DIS. OXY.	COPPER	ZINC	NITRATE	PHOS	CHROME	Last 24 hrs	Last 24 hrs	Last 24 hrs
DATE	COND.*	TIME	pH	(C°)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	HIGH TEMP.	LOW TEMP.	PRECIP.
4/1/19	N	10:45 AM	7.63	7.1	11.70	0.11	0.20		4.90		49.0	26.0	0.00
4/30/19	N	11:00AM	8.05	10.0	9.45	0.11	0.19		1.14		47.0	38.0	0.28
6/18/19	NF	10:45 AM									83.0	56.0	0.00
7/15/19	NF	9:30AM									92.0	74.0	0.00
<b>MAX</b>			8.05	10.0	11.70	0.11	0.20		4.90		92.0	74.0	0.28
<b>AVG.</b>			7.84	8.6	10.58	0.11	0.20		3.02		67.8	48.5	0.07
<b>MIN</b>			7.63	7.1	9.45	0.11	0.19		1.14		47.0	26.0	0.00

\* N-Normal      NF- No Flow      S-Sheen      F-Foam      C-Colored



LOCATION: CENTENNIAL POND

	PHYS.			TEMP	DIS. OXY.	COPPER	ZINC	NITRATE	PHOS	ALGAE	Last 24 hrs	Last 24 hrs	Last 24 hrs
DATE	COND.*	TIME	pH	(C°)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	%	HIGH TEMP.	LOW TEMP.	PRECIP.
4/8/19	N	2:00PM	8.16	17.1	12.15	0.10	0.14	0.00	5.80		66.0	39.0	0.00
5/15/19	N	10:20AM	8.20	19.2	10.39	0.08	0.08	0.00	160.00		75.0	50.0	0.00
6/21/19	N	2:30PM	8.04	21.3	8.9	0.01	0.01		50.00		74.0	51.0	0.26
7/12/19	N	1:30 PM	8.07	28.8	9.6	0.08	0.11	0.00	18.80		87.0	59.0	0.00
<b>MAX</b>			8.20	28.8	12.2	0.10	0.14	0.00	160.00		87.0	59.0	0.26
<b>AVG.</b>			8.12	21.6	10.3	0.07	0.09	0.00	58.65		75.5	49.8	0.07
<b>MIN</b>			8.04	17.1	8.9	0.01	0.01	0.00	5.80		66.0	39.0	0.00

\* N-Normal      NF- No Flow      S-Sheen      F-Foam      C-Colored



LOCATION: **DAVEA POND**

	PHYS.			TEMP	DIS. OXY.	COPPER	ZINC	NITRATE	PHOS	ALGAE	Last 24 hrs	Last 24 hrs	Last 24 hrs
DATE	COND.*	TIME	pH	(C°)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	%	HIGH TEMP.	LOW TEMP.	PRECIP.
4/8/19	N	10:50AM	8.07	17.3	9.42	0.10	0.01	0.00	11.20		47.0	38.0	1.00
5/16/19	N	2:00PM	8.27	17.2	8.32	0.08	0.11	0.00	28.00		77.0	60.0	0.44
6/21/19	N	2:20PM	8.84	23.1	10.22	0.02	0.26	1.50	29.00		74.0	51.0	0.00
7/11/19	N	2:00PM	9.35	28.5	13.30	0.24	0.10		1.60	50%	82.0	65.0	0.00
7/12/19	N	9:10AM	8.32	26.2	9.46	0.01	0.10		1.70		87.0	59.0	0.00
<b>MAX</b>			9.35	28.5	13.30	0.24	0.26	1.50	29.00	0.50	87.0	65.0	1.00
<b>AVG.</b>			8.57	22.5	10.14	0.09	0.12	0.50	14.30	0.50	73.4	54.6	0.29
<b>MIN</b>			8.07	17.2	8.32	0.01	0.01	0.00	1.60	0.50	47.0	38.0	0.00

\* N-Normal      NF- No Flow      S-Sheen      F-Foam      C-Colored





LOCATION: **DIVERSEY AVE PUMP STATION**

	PHYS.			TEMP	DIS. OXY.	COPPER	ZINC	PHOS	Last 24 hrs	Last 24 hrs	Last 24 hrs
DATE	COND.*	TIME	pH	(C°)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	HIGH TEMP.	LOW TEMP.	PRECIP.
4/1/19	NF	10:35AM							49.0	26.0	0.00
4/30/19	NF	10:15AM							47.0	38.0	0.28
5/16/19	NF	2:45PM							77.0	60.0	0.44
7/9/19	NF	1:10PM							88.0	61.0	0.00
8/26/19	N	10:50AM	8.05	21.9	8.17	0.23	0.17	1.26	75.0	64.0	1.40
<b>MAX</b>			8.05	21.9	8.17	0.23	0.17	1.26	88.0	64.0	1.40
<b>AVG.</b>			8.05	21.9	8.17	0.23	0.17	1.26	67.2	49.8	0.42
<b>MIN</b>			8.05	21.9	8.17	0.23	0.17	1.26	47.0	26.0	0.00

\* N-Normal      NF- No Flow      S-Sheen      F-Foam      C-Colored



LOCATION: **FULLERTON AT FAIRBANK**

	PHYS.			TEMP	DIS. OXY.	COPPER	ZINC	PHOS	Last 24 hrs	Last 24 hrs	Last 24 hrs
DATE	COND.*	TIME	pH	(C°)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	HIGH TEMP.	LOW TEMP.	PRECIP.
4/3/19	N	10:10AM	7.86	7.2	10.49	0.13	0.09	1.20	58.0	37.0	0.00
5/10/19	N	9:50AM	7.88	13.8	10.03	0.20	0.10	7.20	75.0	50.0	0.53
6/18/19	N	2:20PM	8.14	20.7	9.10	0.10	0.18	0.79	83.0	56.0	0.00
7/10/19	N	10:00AM	7.78	24.0	8.75	0.06	0.16	11.20	94.0	75.0	0.01
<b>MAX</b>			8.14	24.0	10.49	0.20	0.18	11.20	94.00	75.00	0.53
<b>AVG.</b>			7.92	16.4	9.59	0.12	0.13	5.10	77.50	54.50	0.14
<b>MIN</b>			7.78	7.2	8.75	0.06	0.09	0.79	58.00	37.00	0.00

\* N-Normal      NF- No Flow      S-Sheen      F-Foam      C-Colored



LOCATION: **FULLERTON @ STEWART**

	PHYS.			TEMP	DIS. OXY.	COPPER	ZINC	NITRATE	PHOS	Last 24 hrs	Last 24 hrs	Last 24 hrs
DATE	COND.*	TIME	pH	(C°)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	HIGH TEMP.	LOW TEMP.	PRECIP.
4/3/19	S	10:10AM	7.90	7.9	11.30	0.13	0.21	0.00	1.04	58.0	37.0	0.00
5/22/19	N	10:40AM	8.11	15.5	7.77	0.08	0.03	0.00	29.00	82.0	49.0	0.59
6/21/19	N	9:20AM	7.87	17.7	5.38	0.07	0.03	0.00	72.00	74.0	51.0	0.26
7/10/19	N	10:30AM	7.35	25.6	4.57	0.04	0.03	1.50	12.40	94.0	75.0	0.01
<b>MAX</b>			8.11	25.6	11.30	0.13	0.21	1.50	72.00	94.0	75.0	0.59
<b>AVG.</b>			7.81	16.7	7.26	0.08	0.08	0.38	28.61	77.0	53.0	0.22
<b>MIN</b>			7.35	7.9	4.57	0.04	0.03	0.00	1.04	58.0	37.0	0.00

\* N-Normal      NF- No Flow      S-Sheen      F-Foam      C-Colored



LOCATION: **HAMPTON**

	PHYS.			TEMP	DIS. OXY.	COPPER	ZINC	NITRATE	PHOS	Last 24 hrs	Last 24 hrs	Last 24 hrs
DATE	COND.*	TIME	pH	(C°)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	HIGH TEMP.	LOW TEMP.	PRECIP.
4/9/19	N	2:30PM	8.04	19.2	9.21	0.12	0.51**	0.00	8.20	66.0	39.0	0.00
5/16/19	N	3:30PM	8.07	19.8	6.97	0.01	0.09	0.00	31.00	77.0	60.0	0.44
6/21/19	N	2:45PM	8.10	22.6	11.30	0.01	0.22		28.00	74.0	51.0	0.26
7/11/19	NF***	1:00 PM	7.70	28.8	5.25	0.01	0.12		0.92	82.0	65.0	0.00
<b>MAX</b>			8.10	28.8	11.30	0.12	0.22	0.00	31.00	82.0	65.0	0.44
<b>AVG.</b>			7.98	22.6	8.18	0.04	0.14	0.00	17.03	74.8	53.8	0.18
<b>MIN</b>			7.70	19.2	5.25	0.01	0.09	0.00	0.92	66.0	39.0	0.00

\* N-Normal      NF- No Flow      S-Sheen      F-Foam      C-Colored

\*\* no color change

7/11/2019 NF \*\*\* Pond Sample



LOCATION: LAKE MANOR POND

	PHYS.			TEMP	DIS. OXY.	COPPER	ZINC	NH3	PHOS	ALGAE	Last 24 hrs	Last 24 hrs	Last 24 hrs
DATE	COND.*	TIME	pH	(C°)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	%	HIGH TEMP.	LOW TEMP.	PRECIP.
4/30/19	N	11:00AM	7.03	7.8	9.96	0.06	0.24	0.03	6.00		58.0	37.0	0.00
5/10/19	C**	2:30PM	7.67	13.5	7.13	0.09	0.07	0.17	55.00		58.0	44.0	0.53
6/18/19	N	2:00PM	8.26	24.0	10.60	0.01	0.04	0.07	74.00		83.0	56.0	0.00
7/12/19	NF	11:00AM									87.0	59.0	0.00
<b>MAX</b>			8.26	24.0	10.60	0.09	0.24	0.17	74.00		87.0	59.0	0.53
<b>AVG.</b>			7.65	15.1	9.23	0.05	0.12	0.09	45.00		71.5	49.0	0.13
<b>MIN</b>			7.03	7.8	7.13	0.01	0.04	0.03	6.00		58.0	37.0	0.00

\* N-Normal      NF- No Flow      S-Sheen      F-Foam      C-Colored

\*\* Pond water is orange colored by the bridge. Color due to harmless Fe bacteria. Pockets of oily orange slime.



LOCATION: **MYRIC AVE. PUMP STATION**

	PHYS.			TEMP	DIS. OXY.	COPPER	ZINC	NITRATE	PHOS	CHROME	Last 24 hrs	Last 24 hrs	Last 24 hrs
DATE	COND.*	TIME	pH	(C°)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	HIGH TEMP.	LOW TEMP.	PRECIP.
4/1/19	NF	10:40AM									49.0	26.0	0.00
4/30/19	NF	10:20AM									47.0	38.0	0.28
5/16/19	NF	2:45PM									77.0	60.0	0.44
6/18/19	NF	10:05AM									83.0	56.0	0.00
7/9/19	NF	1:15PM									88.0	61.0	0.00
<b>MAX</b>											88.0	61.0	0.44
<b>AVG.</b>											68.8	48.2	0.14
<b>MIN</b>											47.0	26.0	0.00

\* N-Normal      NF- No Flow      S-Sheen      F-Foam      C-Colored



LOCATION: **OPUS POND EFFLUENT**

	PHYS.			TEMP	DIS. OXY.	COPPER	ZINC	NITRATE	PHOS	ALGAE	Last 24 hrs	Last 24 hrs	Last 24 hrs
DATE	COND.*	TIME	pH	(C°)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	%	HIGH TEMP.	LOW TEMP.	PRECIP.
4/8/19	N	10:15AM	8.02	16.9	10.05	0.04	0.02	0.00	12.40		47.0	38.0	1.00
5/9/19	N	3:00PM	8.18	18.8	9.63	0.08	0.11	0.00	26.00		67.0	46.0	0.79
6/21/19	N	1:50PM	8.43	23.2	9.70	0.08	0.23	0.50	100.00		74.0	51.0	0.00
7/11/19	NF	1:55PM								20%	82.0	65.0	0.00
<b>MAX</b>			8.43	23.2	10.05	0.08	0.23	0.50	100.00	20%	82.0	65.0	1.00
<b>AVG.</b>			8.21	19.6	9.79	0.07	0.12	0.17	46.13	20%	67.5	50.0	0.45
<b>MIN</b>			8.02	16.9	9.63	0.04	0.02	0.00	12.40	20%	47.0	38.0	0.00

\* N-Normal      NF- No Flow      S-Sheen      F-Foam      C-Colored



LOCATION: **REPUBLIC CURVE**

	PHYS.			TEMP	DIS. OXY.	COPPER	ZINC	PHOS	Last 24 hrs	Last 24 hrs	Last 24 hrs
DATE	COND.*	TIME	pH	(C°)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	HIGH TEMP.	LOW TEMP.	PRECIP.
4/3/19	N	10:15AM	7.75	9.2	8.58	0.20	0.22	0.86	58.0	37.0	0.00
5/10/19	F & C**	1:30PM	6.92	17.2	6.78	0.13	0.01	130.00	58.0	44.0	0.00
6/21/19	N	1:30PM	8.36	24.0	7.70	0.28	0.10	28.00	74.0	51.0	0.26
7/12/19	NF	10:00AM							87.0	59.0	0.00
<b>MAX</b>			8.36	24.0	8.58	0.28	0.22	130.00	87.0	59.0	0.26
<b>AVG.</b>			7.68	16.8	7.69	0.20	0.11	52.95	69.3	47.8	0.07
<b>MIN</b>			6.92	9.2	6.78	0.13	0.01	0.86	58.0	37.0	0.00

\* N - Normal      NF - No Flow      S - Sheen      F - Foam      C - Colored

\*\* YELLOW TINT Sample was brought to the lab for analysis





LOCATION: **STEWART POND EFFLUENT**

	PHYS.			TEMP	DIS. OXY.	COPPER	ZINC	PHOS	ALGAE	Last 24 hrs	Last 24 hrs	Last 24 hrs
DATE	COND.*	TIME	pH	(C°)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	%	HIGH TEMP.	LOW TEMP.	PRECIP.
4/3/19	N	10:50AM	8.42	12.2	10.60	0.16	0.28	29.00		58.0	37.0	0.00
5/10/19	N	9:25AM	8.16	16.2	6.90	0.07	0.10	27.00		58.0	44.0	0.00
6/21/19	N	10:00AM	9.02	20.8	13.40	0.04	0.03	37.00		74.0	51.0	0.26
7/11/19	N	10:40AM	7.69	24.4	3.97	0.01	0.14	11.60		82.0	65.0	0.00
<b>MAX</b>			9.02	24.4	13.40	0.16	0.28	37.00		82.0	65.0	0.26
<b>AVG.</b>			8.32	18.4	8.72	0.07	0.14	26.15		68.0	49.3	0.07
<b>MIN</b>			7.69	12.2	3.97	0.01	0.03	11.60		58.0	37.0	0.00

\* N - Normal    NF - No Flow    S - Sheen    F - Foam    C - Colored    A - Algae and % of Pond



LOCATION: WESTWOOD @ LENORE

	PHYS.			TEMP	DIS. OXY.	COPPER	ZINC	PHOS	NH3	Last 24 hrs	Last 24 hrs	Last 24 hrs
DATE	COND.*	TIME	pH	(C°)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	HIGH TEMP.	LOW TEMP.	PRECIP.
4/2/19	N	9:30AM	7.76	7.8	11.95	0.14	0.01	0.14	0.03	53.0	39.0	0.00
5/9/19	N	2:30PM	8.09	17.2	7.68	0.01	0.15	10.60	0.03	67.0	46.0	0.79
6/21/19	N	8:50AM	8.49	19.4	9.20	0.20	0.04	27.00	0.06	74.0	51.0	0.00
7/9/19	N	2:30PM	7.36	24.9	9.10	0.04	0.05	0.80	0.03	88.0	61.0	0.00
<b>MAX</b>			8.49	24.9	11.95	0.20	0.15	27.00	0.06	88.0	61.0	0.79
<b>AVG.</b>			7.93	17.3	9.48	0.10	0.06	9.64	0.04	70.5	49.3	0.20
<b>MIN</b>			7.36	7.8	7.68	0.01	0.01	0.14	0.03	53.0	39.0	0.00

\* N - Normal      NF - No Flow      S - Sheen      F - Foam      C - Colored



LOCATION: WESTWOOD @ HOLTZ

	PHYS.			TEMP	DIS. OXY.	COPPER	ZINC	NITRATE	PHOS	NH3	Last 24 hrs	Last 24 hrs	Last 24 hrs
DATE	COND.*	TIME	pH	(C°)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	HIGH TEMP.	LOW TEMP.	PRECIP.
4/3/19	N	1:00 PM	7.96	8.3	10.46	0.06	0.13	2.00	4.30	0.04	58.0	37.0	0.00
5/10/19	N	10:00AM	8.14	14.3	8.74	0.02	0.13	1.50	0.28	0.03	58.0	44.0	0.53
6/21/19	N	1:45PM	7.91	18.6	9.16	0.02	0.07	1.50	28.00	0.05	74.0	51.0	0.26
7/11/19	NF	11:00AM									82.0	65.0	0.00
7/12/19	NF	10:30AM									87.0	59.0	0.00
<b>MAX</b>			8.14	18.6	10.46	0.06	0.13	2.00	28.00	0.05	87.0	65.0	0.53
<b>AVG.</b>			8.00	13.7	9.45	0.03	0.11	1.67	10.86	0.04	71.8	51.2	0.16
<b>MIN</b>			7.91	8.3	8.74	0.02	0.07	1.50	0.28	0.03	58.0	37.0	0.00

\* N - Normal    NF - No Flow    S - Sheen    F - Foam    C - Colored



LOCATION: **PUMP & DAM**

	PHYS.			TEMP	DIS. OXY.	COPPER	ZINC	PHOS	NH4	Last 24 hrs	Last 24 hrs	Last 24 hrs
DATE	COND.*	TIME	pH	(C°)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	(Mg/L)	HIGH TEMP.	LOW TEMP.	PRECIP.
4/1/19	NF	10:45AM								49.0	26.0	0.00
5/22/19	NF	1:30PM	7.95	22.9	7.23	0.05	0.02	25.00	0.86	82.0	49.0	0.59
6/18/19	NF	11:10AM								83.0	56.0	0.00
7/10/19	NF	9:00AM								94.0	75.0	0.01
<b>MAX</b>			7.95	22.9	7.23	0.05	0.02	25.00	0.86	94.0	75.0	0.59
<b>AVG.</b>			7.95	22.9	7.23	0.05	0.02	25.00	0.86	77.0	51.5	0.15
<b>MIN</b>			7.95	22.9	7.23	0.05	0.02	25.00	0.86	49.0	26.0	0.00

\* N - Normal      NF - No Flow      S - Sheen      F - Foam      C - Colored

LOCATION	Date	Time	Turbidity	High	Low	Rain	Algae
18" S of Cherry	No Flow						
24" @ Lake	No Flow						
36"@ Palmer (AJL)	No Flow						
42" S of Cherry	No Flow						
48" Addison & Lorraine	No Flow						
54" Addison & Armitage	No Flow						
72" @ Odeum	No Flow						
Centennial Pond	6/21/2019	2:30 PM	22.60	74.0	51.0	0.26	
	7/12/2019	1:30PM	25.70	87.0	59.0	0.00	
Davea Pond	6/21/2019	2:20 PM	9.80	74.0	51.0	0.26	50%
	7/11/2019	2:00 PM	182.00	82.0	65.0	0.00	
	7/12/2019	9:10AM	158.00	87.0	59.0	0.00	
DAPS	8/26/2019	10:50 AM	44.60	75.0	64.0	1.40	
Fullerton & Fairbank	7/10/2019	10:00 AM	3.85	94.0	75.0	0.01	
Fullerton & Stewart	7/10/2019	10:30 AM	25.10	94.0	75.0	0.01	
Hampton	6/21/2019	2:45 PM	22.10	74.0	51.0	0.26	
	7/11/2019	1:00PM	29.30	82.0	65.0	0.00	
Lake Manor Pond	No Flow						
MAPS	No Flow						
Opus Pond	6/21/2019	1:50 PM	7.00	74.0	51.0	0.26	
Pump & Dam	No Flow						
Republic Curve	6/21/2019	1:30 PM	49.20	74.0	51.0	0.26	
Stewart Pond	7/11/2019	10:40 AM	32.70	82.0	65.0	0.00	
Westwood & Holtz	6/21/2019	1:45 PM	5.44	74.0	51.0	0.26	
Westwood & Lenore	7/9/2019	2:30PM	37.30	88.0	61.0	0.00	
<b>MAX</b>			182.00	94.0	75.00	1.40	50%
<b>AVG.</b>			43.65	81.0	59.60	0.20	50%
<b>MIN</b>			3.85	74.0	51.00	0.00	50%

Lab Streams Daily 1/1/2019 - 12/31/2019	NTP UPSTREAM CBOD MG/L	NTP UPSTREAM Diss Oxygen MG/L	NTP UPSTREAM Fecal Coliform MPN/100ML	NTP UPSTREAM Fluoride MG/L	NTP UPSTREAM FOGS Total MG/L	NTP UPSTREAM Hardness MG/L	NTP UPSTREAM Ammonia MG/L	NTP UPSTREAM pH SU	NTP UPSTREAM Phosphorus Total MG/L	NTP UPSTREAM Water Temp F DEG F	NTP UPSTREAM Solids TSS MG/L	NTP UPSTREAM Barium MG/L
2/21/2019	2.53	11.78	>2,491.6		2.3	352.0	0.06	7.66	0.66	37.58	7.6	0.043
3/7/2019	le	11.41	1,540.2		<1.0	334.0	0.07	7.16	1.30	7.16	15.2	0.034
4/11/2019	2.92	9.27	1,158.8		6.7	308.0	0.04	7.64	1.38	46.76	6.8	0.036
5/23/2019	4.12	8.45	544.6	0.47	<1.0	234.0	0.06	7.53	0.46	61.52	17.2	0.032
6/1/2019	2.82	7.27	2,599.4		7.4	322.0	0.14	7.40	0.78	71.60	22.4	0.029
7/23/2019	3.93	7.28	615.2	0.50		234.0	0.22	7.43	0.70	71.24	18.0	0.029
8/8/2019	<2.00	6.01	480.0		<1.0	296.0	0.12	7.37	2.36	73.40	16.4	0.026
9/5/2019	2.24	7.86	1,297.6		<1.0	244.0	<0.03	7.41		66.56	20.0	0.025
10/11/2019	3.85	7.81	770.1	0.35	13.1	312.0	0.12	7.48	0.97	63.86	25.2	0.026
11/14/2019	2.41	11.09	2,599.4		1.0	360.0	0.34	7.57	1.38	41.36	13.6	0.028
12/5/2019	2.03	11.53	1,034.4		7.9	374.0	0.07	7.82	0.71	40.10	66.0	0.034
Sum	<28.85	99.76	>15,131.3	1.33	<42.4	3,370.0	<1.26	82.47	10.70	581.14	228.4	0.342
Avg	<2.89	9.07	>1,157.4	0.44	<4.2	306.4	<0.11	7.50	1.07	52.83	20.8	0.031
Max	4.12	11.78	2,599.4	0.50	13.1	374.0	0.34	7.82	2.36	73.40	66.0	0.043
Min	<2.00	6.01	480.0	0.35	<1.0	234.0	<0.03	7.16	0.46	7.16	6.8	0.025

Lab Streams Daily 1/1/2019 - 12/31/2019	NTP UPSTREAM Berylium MG/L	NTP UPSTREAM Cadmium MG/L	NTP UPSTREAM Chromium (total) MG/L	NTP UPSTREAM Copper MG/L	NTP UPSTREAM Iron MG/L	NTP UPSTREAM Lead MG/L	NTP UPSTREAM Manganese MG/L	NTP UPSTREAM Molybdenum UG/L	NTP UPSTREAM Nickel MG/L	NTP UPSTREAM Silver MG/L	NTP UPSTREAM Zinc MG/L
2/21/2019	<0.005	<0.001	0.007	0.007	0.313	0.031	0.054	0.017	0.006	<0.0030	0.014
3/7/2019	<0.005	<0.001	0.019	0.006	0.582	<0.018	0.050	0.017	0.006	<0.0030	0.033
4/11/2019	<0.005	<0.001	0.007	0.006	0.278	<0.018	0.056	0.014	0.006	0.0030	0.022
5/23/2019	<0.005	<0.001	0.038	0.007	0.629	0.026	0.052	0.009	0.007	<0.0030	0.024
6/1/2019	<0.005	<0.001	<0.006	<0.005	0.927	<0.018	0.065	<0.020	0.009	0.0040	0.013
7/23/2019	<0.005	<0.001	0.007	0.006	0.861	<0.018	0.075	0.019	0.004	<0.0030	0.016
8/8/2019	<0.005	<0.001	0.017	0.007	0.716	<0.018	0.058	0.024	0.006	0.0090	0.017
9/5/2019	<0.005	<0.001	<0.006	<0.005	0.688	<0.018	0.052	0.026	0.007	<0.0030	0.015
10/11/2019	<0.005	<0.001	<0.006	0.005	1.058	<0.018	0.056	0.016	<0.004	<0.0030	0.015
11/14/2019	<0.005	<0.001	0.033	0.004	0.601	0.035	0.033	0.011	0.008	<0.0030	0.019
12/5/2019	<0.005	<0.001	<0.006	<0.005	1.693	<0.018	0.054	0.018	<0.004	<0.0030	0.018
Sum	<0.055	<0.011	<0.152	<0.063	8.346	<0.236	0.605	<0.191	<0.067	<0.0400	0.206
Avg	<0.005	<0.001	<0.014	<0.006	0.759	<0.021	0.055	<0.017	<0.006	<0.0036	0.019
Max	<0.005	<0.001	0.038	0.007	1.693	0.035	0.075	0.026	0.009	0.0090	0.033
Min	<0.005	<0.001	<0.006	0.004	0.278	<0.018	0.033	0.009	<0.004	<0.0030	0.013

Lab Streams Daily 1/1/2019 - 12/31/2019	NTP UPSTREAM Alkalinity MG/L	NTP UPSTREAM Chloride MG/L	NTP UPSTREAM Total Nitrogen MG/L	NTP UPSTREAM Mercury MG/L	NTP UPSTREAM Aroclor 1016 ug/L	NTP UPSTREAM Aroclor 1221 ug/L	NTP UPSTREAM Aroclor 1232 ug/L	NTP UPSTREAM Aroclor 1242 ug/L	NTP UPSTREAM Aroclor 1248 ug/L
2/21/2019	210.0								
3/7/2019	245.0	330.0							
4/11/2019	185.0	410.0							
5/23/2019	170.0								
6/1/2019									
7/23/2019	135.0	125.0							
8/8/2019									
9/5/2019									
10/11/2019	415.0	101.3	5.00	<0.0002	<0.0780	<0.0780	<0.0780	<0.0780	<0.0780
11/14/2019									
12/5/2019									
Sum	1,360.0	966.3	5.00	<0.0002	<0.0780	<0.0780	<0.0780	<0.0780	<0.0780
Avg	226.7	241.6	5.00	<0.0002	<0.0780	<0.0780	<0.0780	<0.0780	<0.0780
Max	415.0	410.0	5.00	<0.0002	<0.0780	<0.0780	<0.0780	<0.0780	<0.0780
Min	135.0	101.3	5.00	<0.0002	<0.0780	<0.0780	<0.0780	<0.0780	<0.0780



Lab Streams Daily 1/1/2019 - 12/31/2019	NTP UPSTREAM Aroclor 1254 ug/L	NTP UPSTREAM Aroclor 1260 ug/L	NTP UPSTREAM DDT ug/L	NTP UPSTREAM Heptachlor ug/L	AJL UPSTREAM CBOD MG/L	AJL UPSTREAM Diss Oxygen MG/L	AJL UPSTREAM Fecal Coliform MPN/100ML	AJL UPSTREAM Fluoride MG/L	AJL UPSTREAM FOGS Total MG/L	AJL UPSTREAM Hardness MG/L
2/21/2019					2.6	11.81	>2,491.6		2.3	352.0
3/7/2019					1e	11.86	3,106.2		<1.0	330.0
4/11/2019					2.4	9.51	1,454.0		3.5	314.0
5/23/2019					3.8	8.12	520.6	0.51	1.1	246.0
6/1/2019					2.6	6.74	1,841.6		3.0	310.0
7/23/2019					3.0	7.22	544.6	0.23		244.0
8/8/2019					<2.0	6.20	262.8		<1.0	262.0
9/5/2019					2.3	7.99	1,960.8		1.6	252.0
10/11/2019	<0.0780	<0.0780	<0.030	<0.00700	2.8	7.84	866.4	0.32	4.4	310.0
11/14/2019					2.4	11.46	2,827.2		1.3	290.0
12/5/2019					2.2	11.34	1,540.2		3.3	324.0
Sum	<0.0780	<0.0780	<0.030	<0.00700	<26.0	100.09	>17,416.0	1.07	<22.5	3,234.0
Avg	<0.0780	<0.0780	<0.030	<0.00700	<2.6	9.10	>1,247.8	0.36	<2.3	294.0
Max	<0.0780	<0.0780	<0.030	<0.00700	3.8	11.86	3,106.2	0.51	4.4	352.0
Min	<0.0780	<0.0780	<0.030	<0.00700	<2.0	6.20	262.8	0.23	<1.0	244.0

Lab Streams Daily 1/1/2019 - 12/31/2019	AJL UPSTREAM Ammonia MG/L	AJL UPSTREAM pH SU	AJL UPSTREAM Phosphorus Total MG/L	AJL UPSTREAM Water Temp F DEG F	AJL UPSTREAM Solids TSS MG/L	AJL UPSTREAM Barium MG/L	AJL UPSTREAM Beryllium MG/L	AJL UPSTREAM Cadmium MG/L	AJL UPSTREAM Chromium (total) MG/L	AJL UPSTREAM Copper MG/L	AJL UPSTREAM Iron MG/L	AJL UPSTREAM Lead MG/L
2/21/2019	0.07	7.79	0.64	37.94	16.0	0.045	<0.005	<0.001	0.009	0.017	0.377	0.029
3/7/2019	0.04	7.46	1.23	37.04	16.8	0.036	<0.005	<0.001	0.015	0.008	0.661	<0.018
4/11/2019	0.04	7.80	1.20	47.30	9.2	0.043	<0.005	<0.001	0.002	0.009	0.324	0.019
5/23/2019	0.05	7.65	0.47	61.70	24.0	0.033	<0.005	<0.001	0.021	0.006	0.712	0.029
6/1/2019	0.16	7.53	0.81	72.14	36.8	0.033	<0.005	<0.001	<0.006	<0.005	1.359	<0.018
7/23/2019	0.17	7.52	0.60	71.60	33.2	0.031	<0.005	0.001	<0.004	0.007	1.196	<0.018
8/8/2019	0.11	7.54	2.15	74.12	8.4	0.024	<0.005	<0.001	0.013	0.007	0.387	<0.018
9/5/2019	0.03	7.50		66.56	24.0	0.025	<0.005	<0.001	<0.006	<0.005	0.796	<0.018
10/11/2019	0.09	7.45	1.09	64.22	30.0	0.026	<0.005	<0.001	<0.006	<0.005	0.706	<0.018
11/14/2019	0.11	7.61	1.32	41.72	13.2	0.028	<0.005	<0.001	0.026	0.005	0.704	0.050
12/5/2019	0.06	7.88	0.65	40.46	31.6	0.032	<0.005	<0.001	<0.006	<0.005	0.538	0.028
Sum	0.93	83.73	10.16	614.80	243.2	0.356	<0.055	<0.011	<0.114	<0.079	7.760	<0.263
Avg	0.08	7.61	1.02	55.89	22.1	0.032	<0.005	<0.001	<0.010	<0.007	0.705	<0.024
Max	0.17	7.88	2.15	74.12	36.8	0.045	<0.005	0.001	0.026	0.017	1.359	0.050
Min	0.03	7.45	0.47	37.04	8.4	0.024	<0.005	<0.001	0.002	<0.005	0.324	<0.018

Lab Streams Daily 1/1/2019 - 12/31/2019	AJL UPSTREAM Manganese MG/L	AJL UPSTREAM Molybdenum UG/L	AJL UPSTREAM Nickel MG/L	AJL UPSTREAM Silver MG/L	AJL UPSTREAM Zinc MG/L	AJL UPSTREAM Alkalinity MG/L	AJL UPSTREAM Chloride MG/L	AJL DOWNSTREAM CBOD MG/L	AJL DOWNSTREAM Diss Oxygen MG/L	AJL DOWNSTREAM Fecal Coliform MPN/100ML
2/21/2019	0.051	0.0	0.006	<0.0030	0.016	240.0		2.8	11.75	>2,491.6
3/7/2019	0.063	0.0	0.008	0.0120	0.035	255.0	373.8	le	12.03	3,465.8
4/11/2019	0.068	0.0	0.008	<0.0030	0.025	180.0	360.0	2.8	9.43	1,540.2
5/23/2019	0.055	0.0	0.007	0.0040	0.029	180.0		4.1	7.95	370.0
6/1/2019	0.076	<0.0	0.013	<0.0030	0.017			2.2	6.76	793.6
7/23/2019	0.076	0.0	0.005	<0.0030	0.018	150.0	132.5	3.0	7.54	496.2
8/8/2019	0.041	0.0	0.007	0.0070	0.017			<2.0	5.91	1,226.2
9/5/2019	0.049	0.0	0.008	<0.0030	0.017			3.9	8.11	806.0
10/11/2019	0.040	<0.0	0.004	<0.0030	0.012	195.0	77.5	2.0	7.80	1,553.1
11/14/2019	0.036	0.0	0.008	<0.0030	0.021			2.1	11.44	3,106.2
12/5/2019	0.031	<0.0	<0.004	<0.0030	0.009			2.5	11.43	2,827.2
Sum	0.586	<0.2	<0.078	<0.0470	0.216	1,200.0	943.8	<27.4	100.15	>18,676.1
Avg	0.053	<0.0	<0.007	<0.0043	0.020	200.0	235.9	<2.7	9.10	>1,345.3
Max	0.076	0.0	0.013	0.0120	0.035	255.0	373.8	4.1	12.03	3,465.8
Min	0.031	0.0	<0.004	<0.0030	0.009	150.0	77.5	<2.0	5.91	370.0

Lab Streams Daily 1/1/2019 - 12/31/2019	AJL DOWNSTREAM Fluoride MG/L	AJL DOWNSTREAM FOGS Total MG/L	AJL DOWNSTREAM Hardness MG/L	AJL DOWNSTREAM Ammonia MG/L	AJL DOWNSTREAM pH SU	AJL DOWNSTREAM Phosphorus Total MG/L	AJL D DOWNSTREAM Water Temp F DEG F	AJL DOWNSTREAM Solids TSS MG/L	AJL DOWNSTREAM Barium MG/L	AJL DOWNSTREAM Beryllium MG/L
2/21/2019		1.3	350.0	0.11	7.87	0.63	37.94	14.0	0.044	<0.005
3/7/2019		<1.0	332.0	0.05	7.78	1.24	36.50	12.4	0.035	<0.005
4/11/2019		3.5	312.0	0.05	8.01	1.35	47.48	8.0	<0.003	<0.005
5/23/2019	0.41	<1.0	244.0	0.05	7.76	0.44	62.06	25.6	0.031	<0.005
6/1/2019		7.7	344.0	0.15	7.78	0.81	73.04	34.2	0.032	<0.005
7/23/2019	0.18		270.0	0.15	7.81	0.60	72.14	34.0	0.035	<0.005
8/8/2019		2.2	284.0	0.11	7.61	2.15	75.20	21.6	0.025	<0.005
9/5/2019		1.4	240.0	0.05	7.59		67.28	28.4	0.023	<0.005
10/11/2019	0.35	4.5	342.0	0.09	7.54	1.19	64.40	38.0	0.029	<0.005
11/14/2019		2.7	294.0	0.09	7.54	1.38	41.90	20.8	0.027	<0.005
12/5/2019		9.5	346.0	0.06	7.81	0.74	40.46	27.6	0.030	<0.005
Sum	0.94	<34.8	3,358.0	0.94	85.10	10.53	618.40	264.6	<0.314	<0.055
Avg	0.31	<3.5	305.3	0.09	7.74	1.05	56.22	24.1	<0.029	<0.005
Max	0.41	9.5	350.0	0.15	8.01	2.15	75.20	38.0	0.044	<0.005
Min	0.18	<1.0	240.0	0.05	7.54	0.44	36.50	8.0	<0.003	<0.005

Lab Streams Daily 1/1/2019 - 12/31/2019	AJL DOWNSTREAM Cadmium MG/L	AJL DOWNSTREAM Chromium (total) MG/L	AJL DOWNSTREAM Copper MG/L	AJL DOWNSTREAM Iron MG/L	AJL DOWNSTREAM Lead MG/L	AJL DOWNSTREAM Manganese MG/L	AJL DOWNSTREAM Molybdenum UG/L	AJL DOWNSTREAM Nickel MG/L	AJL DOWNSTREAM Silver MG/L	AJL DOWNSTREAM Zinc MG/L
2/21/2019	<0.001	0.013	0.006	0.370	0.030	0.051	0.0	0.007	<0.0030	0.017
3/7/2019	<0.001	0.019	0.006	0.531	<0.018	0.059	0.0	0.009	0.0160	0.031
4/11/2019	<0.001	0.006	0.012	0.072	<0.018	0.015	0.0	0.005	0.0080	0.022
5/23/2019	<0.001	0.016	0.006	0.686	0.024	0.051	0.0	0.009	<0.0030	0.015
6/1/2019	<0.001	<0.006	<0.005	1.326	<0.018	0.072	<0.0	0.013	0.0040	0.027
7/23/2019	0.001	0.008	0.005	1.235	<0.018	0.080	0.0	0.006	<0.0030	0.016
8/8/2019	<0.001	0.013	0.006	0.747	<0.018	0.051	0.0	0.009	0.0030	0.019
9/5/2019	<0.001	<0.006	0.007	0.892	<0.018	0.050	0.0	0.007	<0.0030	0.017
10/11/2019	<0.001	<0.006	<0.005	0.798	0.044	0.043	<0.0	0.004	<0.0030	0.013
11/14/2019	<0.001	0.031	0.004	0.599	<0.018	0.032	0.0	0.013	<0.0030	0.020
12/5/2019	<0.001	<0.006	<0.005	0.399	<0.018	0.028	<0.0	<0.004	<0.0030	0.012
Sum	<0.011	<0.130	<0.067	7.655	<0.242	0.532	<0.2	<0.082	<0.0520	0.209
Avg	<0.001	<0.012	<0.006	0.696	<0.022	0.048	<0.0	<0.008	<0.0047	0.019
Max	0.001	0.031	0.012	1.326	0.044	0.080	0.0	0.013	0.0160	0.031
Min	<0.001	<0.006	0.004	0.072	<0.018	0.015	0.0	<0.004	<0.0030	0.012

Lab Streams Daily 1/1/2019 - 12/31/2019	AJL DOWNSTREAM Alkalinity MG/L	AJL DOWNSTREAM Chloride MG/L	AJL DOWNSTREAM Total Nitrogen MG/L	AJL DOWNSTREAM Mercury MG/L	AJL DOWNSTREAM Aroclor 1016 ug/L	AJL DOWNSTREAM Aroclor 1221 ug/L	AJL DOWNSTREAM Aroclor 1232 ug/L	AJL DOWNSTREAM Aroclor 1242 ug/L	AJL DOWNSTREAM Aroclor 1248 ug/L
2/21/2019	225.0								
3/7/2019	235.0	331.3							
4/11/2019	165.0	366.3							
5/23/2019	190.0								
6/1/2019									
7/23/2019	140.0	112.5							
8/8/2019									
9/5/2019									
10/11/2019	225.0	71.3	5.30	<0.0002	<0.0780	<0.0780	<0.0780	<0.0780	<0.0780
11/14/2019									
12/5/2019									
Sum	1,180.0	881.3	5.30	<0.0002	<0.0780	<0.0780	<0.0780	<0.0780	<0.0780
Avg	196.7	220.3	5.30	<0.0002	<0.0780	<0.0780	<0.0780	<0.0780	<0.0780
Max	235.0	366.3	5.30	<0.0002	<0.0780	<0.0780	<0.0780	<0.0780	<0.0780
Min	140.0	71.3	5.30	<0.0002	<0.0780	<0.0780	<0.0780	<0.0780	<0.0780

Lab Streams Daily 1/1/2019 - 12/31/2019	AJL DOWNSTREAM Aroclor 1254 ug/L	AJL DOWNSTREAM Aroclor 1260 ug/L	AJL DOWNSTREAM DDT ug/L	AJL DOWNSTREAM Heptachlor ug/L
2/21/2019				
3/7/2019				
4/11/2019				
5/23/2019				
6/1/2019				
7/23/2019				
8/8/2019				
9/5/2019				
10/11/2019	<0.0780	<0.0780	<0.0300	<0.00700
11/14/2019				
12/5/2019				
Sum	<0.0780	<0.0780	<0.0300	<0.00700
Avg	<0.0780	<0.0780	<0.0300	<0.00700
Max	<0.0780	<0.0780	<0.0300	<0.00700
Min	<0.0780	<0.0780	<0.0300	<0.00700



FID	OutFall ID	Inches	Material	Owner	Notes	Repair	Flow	Date	Time
	WCMS 004	48	RCP	VOA	Pump & Dam	No	0%	10/15/2019	9:00 AM
38	WCMS 006	20	RCP	VOA	North	No	0%	10/15/2019	9:00 AM
39	WCMS 012	12	RCP & PVC/Green	VOA	North	No	0%	10/15/2019	9:00 AM
40	WCMS 020	12	Metal	VOA	Bridge @ Roxanne NE side	No	0%	10/15/2019	9:10 AM
42	WCMS 026	6	PVC/ White	VOA	Bridge @ Roxanne NW side	No	0%	10/15/2019	9:10 AM
46	WCMS 037	18	RCP	VOA	Bridge @ Roxanne SE side	No	0%	10/15/2019	9:10 AM
41	WCMS 044	6	PVC/ White	VOA	Bridge @ Roxanne SW side	No	0%	10/15/2019	9:10 AM
43	WCMS 050	22	Metal	VOA	Bottom Rusted Out	Yes	0%	10/15/2019	9:20 AM
44	WCMS 056	48	Metal/FES	VOA	Last one West of Roxanne that you don't need boots	Yes	0%	10/15/2019	9:20 AM
48	WCMS 060	18	Metal	VOA	Bottom Rusted (Black Corr on top)	Yes	0%	10/18/2019	9:15 AM
	WCMS 061	8	Black corr	Private	Tag 8885 with a green cap	No	0%	10/18/2019	9:15 AM
49	WCMS 064	7	Black corr	VOA	Tag 8895	No	0%	10/18/2019	9:15 AM
50	WCMS 068	7	Black corr	Private	Tag 8887 Being crushed	Yes	0%	10/18/2019	9:15 AM
	WCMS 070	4	PVC/White	Private	Tag 8880	No	0%	10/18/2019	9:15 AM
51	WCMS 072	16	Metal	VOA	618 Lullo	No	0%	10/18/2019	9:25 AM
	WCMS 074	6	Black corr	Private	Tag 8882	No	0%	10/18/2019	9:25 AM
	WCMS 076	6	PVC/White	Private	Tag 8886	No	0%	10/18/2019	9:25 AM
52	WCMS 077	16	Metal	VOA	Mid Of Lincoln	No	0%	10/16/2019	9:30 AM
	WCMS 078	8	PVC/Black	Private	300 Lincoln Ave Tag 8876 has a cover	No	0%	10/18/2019	9:30 AM
	WCMS 079	4	PVC/White	Private	Tag 8875	No	0%	10/18/2019	9:30 AM
53	WCMS 082	6	Black corr	Private	Two black pipes Tag 8873	No	0%	10/18/2019	9:35 AM
54	WCMS 086	16	Metal	VOA		No	0%	10/18/2019	9:35 AM
	WCMS 088	5	Black corr	Private	Tag 8874 Two black Cor only 1 tagged	No	0%	10/18/2019	9:40 AM
55	WCMS 090	24	RCP	VOA	West	No	10%	10/18/2019	9:40 AM
56	WCMS 094	5	Black corr	Private	Tag 8883 and Tree tagged 8872	No	0%	10/18/2019	9:50 AM
57	WCMS 099	16	Metal	VOA	Bottom rusted	Yes	0%	10/18/2019	9:50 AM
58	WCMS 101	5	Black corr	Private	Tag 8871 in a wall	No	0%	10/18/2019	9:55 AM
59	WCMS 106	18	Metal	VOA	Bottom Rusted	Yes	0%	10/18/2019	10:00 AM
60	WCMS 109	5	Black corr	Private	Big pile of dirt on it	No	0%	10/18/2019	10:00 AM
61	WCMS 113	36	RCP	VOA	Neva & Highview@Lake	No	20%	10/16/2019	2:00 PM
62	WCMS 118	36	RCP	VOA	Neva & Highview@Lake	No	20%	10/16/2019	2:00 PM
63	WCMS 122	53	RCP	VOA	Neva & Highview@Lake	No	20%	10/16/2019	2:00 PM
23	WCMS 127	16	Metal	VOA	Green Oaks Luther Brook side	Yes	0%	10/16/2019	10:00 AM
24	WCMS 132	14	RCP	VOA	Green Oaks	No	0%	10/16/2019	10:30 AM
	GO1	24	RCP	VOA	Green Oaks	No	0%	10/16/2019	10:35 AM
	GO 2	4	PVC/Green	VOA	Green Oaks Tag 8888	No	0%	10/16/2019	10:35 AM
	GO3	6	PVC/Green	VOA	Green Oaks Tag 8890	No	0%	10/16/2019	10:35 AM
	GO4	3	PVC/White	VOA	Green Oaks Tag 8893	No	0%	10/16/2019	10:40 AM
	GO5	4	PVC/White	VOA	Green Oaks Tag 8892	No	0%	10/16/2019	10:40 AM
	GO6	4	PVC/White	VOA	Green Oaks Tag 8891	No	0%	10/16/2019	10:40 AM
	GO7	4	PVC/White	VOA	Green Oaks Tag 8889	No	0%	10/16/2019	10:45 AM



FID	OutFall ID	Inches	Material	Owner	Notes	Repair	Flow	Date	Time
	GO8	4	PVC/White	VOA	Green Oaks Tag 8859	No	0%	10/16/2019	10:45 AM
	GO9	4	PVC/White	VOA	Green Oaks Tag 8862	No	0%	10/16/2019	10:50 AM
	GO10	14	Metal	VOA	Green Oaks	No	0%	10/16/2019	10:50 AM
	GO11	3	PVC/White	VOA	Green Oaks Tag 8851	No	0%	10/16/2019	10:55 AM
29	WCMS 151	24	Metal	VOA	Green Oaks	No	20%	10/16/2019	10:35 AM
30	WCMS 155	5	RCP	VOA	Green Oaks in wall	No	0%	10/16/2019	10:55 AM
31	WCMS 159	5	RCP	VOA	Green Oaks in wall	No	0%	10/16/2019	11:00 AM
	GO12	3	PVC/White	VOA	Green Oaks Tag 8897	No	0%	10/16/2019	11:00 AM
32	WCMS 163	5	Blue Metal	VOA	Green Oaks in wall	No	0%	10/16/2019	11:00 AM
	GO 13	3	PVC/White	Private	Green Oaks Tag 8900 (s. side of Creek)	No	0%	10/16/2019	12:45 PM
	GO 14	2	PVC/White	Private	Green Oaks Tag 8899 Wall tag 8896	No	0%	10/16/2019	12:45 PM
33	WCMS 168	4	Black corr	Private	Green Oaks Tag 8852	No	0%	10/16/2019	12:45 PM
34	WCMS 173	5	Black corr	Private	Green Oaks Tag 8860 Guard Rail 8864 by telephone pole	No	0%	10/16/2019	12:45 PM
35	WCMS 177	18	RCP	VOA	Green Oaks Pipe broken off on bottom	Yes	0%	10/16/2019	12:45 PM
	GO 15	6	Black corr	Private	Green Oaks Tag 8865	No	0%	10/16/2019	12:45 PM
36	WCMS 183	8	Metal	Private	Green Oaks in wall	No	0%	10/16/2019	12:55 PM
	GO 16	2	PVC/White	Private	Green Oaks Tag 8855	No	0%	10/16/2019	12:55 PM
	GO 17	3	Metal	Private	Green Oaks Tag 8866	No	0%	10/16/2019	12:55 PM
37	WCMS 189	16	Metal	VOA	Green Oaks Bridge @Mill	No	45%	10/16/2019	1:00 PM
0	WCWB 193	14	RCP	VOA	E of Country Club Broken	Yes	0%	10/17/2019	8:30 AM
0.25		6	PVC/White	VOA	E of Country Club Tag 8665 Mud filled	Yes	0%	10/17/2019	8:35 AM
0.5		5	Orange Tile	VOA	E of Country Club	Yes	0%	10/17/2019	8:35 AM
1	WCWB 197	18	RCP	VOA	E of Country Club	No	0%	10/17/2019	8:35 AM
2	WCWB 204	6	PVC/Green	Private	E of Country Club Tag 8672	No	0%	10/17/2019	8:40 AM
3	WCWB 206	20	RCP	VOA	E of Country Club @ bridge	No	10%	10/17/2019	8:45 AM
4	WCWB 209	10	PVC/White	VOA	E of Country Club in wall @ bridge	No	10%	10/17/2019	8:45 AM
A	WCWB 214	8	PVC/Green	VOA	E of Country Club Tag 8680	No	20%	10/17/2019	8:55 AM
B	WCWB 218	10	PVC/White	VOA	E of Country Club Tag 8868	No	10%	10/17/2019	8:55 AM
C	WCWB 222	6	PVC/Green	VOA	E of Country Club Tag 8679	No	0%	10/17/2019	9:00 AM
D	WCWB 226	5	PVC/White	Private	W of Country Club Tag 8671	No	0%	10/17/2019	9:05 AM
5	WCWB 231	14	PVC/Green	VOA	W of Country Club Tag 8674 + white pipe above green PVC	No	0%	10/17/2019	9:05 AM
6	WCWB 236	14	Metal	VOA	W of Country Club crushed	Yes	0%	10/17/2019	9:05 AM
	WCWB 238	16	PVC/Blue	VOA	W of Country Club Tag 8681	No	0%	10/17/2019	9:10 AM
E	WCWB 240	4	PVC/White	Private	W of CC Wall falling down Tag 8666	Yes	0%	10/17/2019	9:15 AM
7	WCWB 244	4	PVC/White	Private	W of CC Wall falling down Tag 8670	Yes	0%	10/17/2019	9:15 AM
8	WCWB 250	36	RCP	VOA	W of CC white 3 " pipe Tag 8678	No	0%	10/17/2019	9:15 AM
9	WCWB 254	26	Metal	VOA	W of Country Club Bottom Rusted	Yes	0%	10/17/2019	9:20 AM
10	WCWB 260	6	Black Corr	Private	W of Country Club Tag 8669	No	0%	10/17/2019	9:25 AM
	WCWB 263	2	PVC/White	Private	W of Country Club Tag 8673	No	0%	10/17/2019	9:25 AM
11	WCWB 265	34	RCP	VOA	W of Country Club	No	0%	10/17/2019	9:30 AM

FID	OutFall ID	Inches	Material	Owner	Notes	Repair	Flow	Date	Time
12	WCWB 270	10	RCP	VOA	W of Country Club	No	0%	10/17/2019	9:30 AM
13	WCWB 275	12	Metal	VOA	W of Country Club	Yes	0%	10/17/2019	9:30 AM
	WCWB 277	2	PVC/White	Private	W of Country Club Tag 8677	No	0%	10/17/2019	9:35 AM
14	WCWB 280	16	Metal	VOA	W of Country Club Black corr on top of FID 14	Yes	0%	10/17/2019	9:35 AM
		2	PVC/White	Private	W of Country Club Tag 8664	No	0%	10/17/2019	9:35 AM
		5	PVC/White	Private	W of Country Club Tag 8663	No	0%	10/17/2019	9:45 AM
		5	PVC/White	Private	W of Country Club Tag 8684	No	0%	10/17/2019	9:45 AM
		5	3 PVC/White	Private	W of Country Club Tag 8683	No	0%	10/17/2019	9:45 AM
		5	Black Corr	Private	W of Country Club Tag 8682	No	0%	10/17/2019	9:55 AM
15	WCWB 284	36	RCP	VOA	W of Country Club	No	10%	10/17/2019	9:55 AM
16	WCWB 288	12	RCP	VOA	W of Country Club	No	10%	10/17/2019	10:00 AM
17	WCWB 292	8	PVC/Green	VOA	St. Phillips Tag 8854	No	0%	10/15/2019	12:30 PM
17.5	WCWB 295	72	Metal/FES	VOA	St. Phillips	No	0%	10/15/2019	12:30 PM
18	WCWB 297	14	PVC/White	VOA	St. Phillips Tag 8853	No	10%	10/15/2019	12:30 PM
	WCWB 299	48	RCP	VOA	St. Phillips Connection broke	Yes	10%	10/15/2019	12:35 PM
19	WCWB 302	6	PVC/White	Private	St. Phillips Tag 8894	No	0%	10/15/2019	12:35 PM
20	WCWB 304	6	Metal	VOA	St. Phillips Pipe broken away	Yes	0%	10/15/2019	12:40 PM
21	WCWB 306	48	RCP	VOA	Bridge @ Holtz	No	20%	10/15/2019	12:40 PM
22	WCWB 310	48	RCP	VOA	W Side of Holtz Bridge	No	20%	10/15/2019	12:40 PM
22.5	WCWB 315	26	RCP	VOA	E Side of Bridge@Holtz	No	20%	10/15/2019	12:40 PM
	WCWB 320	36	RCP	VOA	Wesley School & Westwood Park	No	10%	10/15/2019	12:50 PM
	WCWB 324	12	RCP	VOA	Wesley School North Side of Creek	No	0%	10/15/2019	12:50 PM
	WCWB 326	12	RCP	VOA	Wesley School North Side of Creek	No	0%	10/15/2019	12:50 PM
	WCWB 330	36	Metal	VOA	Last One @ Wesley	No	20%	10/15/2019	12:50 PM
	WCWB 335	20	RCP	VOA	Centennial Pond	No	20%	10/15/2019	1:00 PM
	WCSB 339	24	RCP	VOA	St. John's & Army Trail	No	0%	10/15/2019	1:15 PM
x	SCMS 342	5	Clay	VOA	Villa Brooks Apt pipe broken off	Yes	100%	10/16/2019	9:00 AM
	WCSB 345	12	RCP	VOA	Hampton Inn	No	0%	10/15/2019	1:25 PM
	SCMS 348	8	PVC/White	VOA	Villa Brooks Apt Tag 8877	No	0%	10/16/2019	9:00 AM
	SCMS 352	24	Metal	VOA	Close to MAPS & the guardrail	No	0%	10/16/2019	9:10 AM
	SCMS 356	24	RCP	VOA	Lake & Villa	No	0%	10/16/2019	9:15 AM
	SCMS 359	42	RCP	VOA	Lake & Villa	No	0%	10/16/2019	9:15 AM
	SCMS 365	12	Metal	VOA	Lake & Villa (next to the 42" pipe)	No	0%	10/16/2019	9:15 AM
	WCWB 369		Metal	VOA	Stewart Pond (300-302 Stewart)	Yes	0%	10/16/2019	9:30 AM
	WCWB 375	20	RCP	VOA	March Co. Parking (936 Fullerton)	No	0%	10/16/2019	9:40 AM
	SCMS 376	72	RCP	VOA	Odeum	No	0%	10/15/2019	1:45 PM
	SCMS 380	42	RCP	VOA	Cherry Hill	No	0%	10/15/2019	1:55 PM
	SCMS 384	20	Metal	VOA	Double Manhole Cherry Hill	No	0%	10/15/2019	2:00 PM
	SCMS 385	38	RCP	VOA	AJL	Yes	20%	10/15/2019	2:10 PM
	SCMS 388	24	Metal	VOA	Villa Brooks Apts.	Yes	20%	10/16/2019	9:00 AM